

# Single 9-1/2" BCI® 5000s-1.8

PASSED

#### Foundation\Floor Joists\J10-16" O.C.(i1048) (Floor Joist)

**BC CALC® Member Report** Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed December 22, 2021 10:31:03 Build 8014 Job name: Lot 323 Park Ridge File name: Lot 323 Park Ridge.mmdl Description: Address: Foundation\Floor Joists\J10-16" O.C.(i1048) City, State, Zip: Specifier: **KC-Truss & Panel** Designer: Customer: Don Happel Code reports: ESR-1336 Company: Boise Cascade BMD - Lee's Summit 12-05-12 **B1 B2** Total Horizontal Product Length = 12-05-12 Reaction Summary (Down / Uplift) (lbs) Bearing Live Dead Snow Wind Roof Live B1, 2-3/8' 323 / 0 121/0

Lo	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	12-05-12	Тор	27	7				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-06	12-04-04	Тор	27	7				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	08-02-14	12-05-12	Тор		13				n\a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	08-02-14	12-04-04	Тор		13				n\a
5	18(i67)	Conc. Pt. (lbs)	L	08-05-02	08-05-02	Тор		73				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1460 ft-lbs	53.6%	100%	1	06-07-13
End Reaction	562 lbs	49.9%	100%	1	12-05-12
End Shear	534 lbs	36.2%	100%	1	12-01-06
Total Load Deflection	L/729 (0.198")	49.4%	n∖a	1	06-03-12
Live Load Deflection	L/1106 (0.131")	43.4%	n\a	2	06-02-06
Max Defl.	0.198"	19.8%	n∖a	1	06-03-12
Span / Depth	15.2				

228 / 0

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	2-3/8" x 2"	444 lbs	22.0%	43.2%	Unspecified
B2	Wall/Plate	4-3/8" x 2"	562 lbs	15.1%	49.9%	Unspecified

#### Notes

B2, 4-3/8"

Design meets User specified (L/360) Total load deflection criteria.

334 / 0

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### **Disclosure**

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

	Boise Cascade	
V	ENGINEERED WOOD PRODUCTS	

	Boise Cascade®				S	Sing	le 9-1/2"	<b>BCI® 50</b>	00s-1	.8				P	ASSED
	ENGINEERED WOOD PRODUCTS			Foun	dation	\Floo	r Joists\J	10-16" O.C	.(i917)	(Floor	Joist)				
	CALC® Member 1 8014	Rep	ort					CS   Repetiti	• •	-		De	ecembe	r 22, 202	1 10:31:03
	name:	Lot :	323 Pa	rk Ridge				File name			Park Rido	-			
Add								Descriptio		Foundati	on\Floor	Joists\J1	0-16" O	.C.(i917)	
	State, Zip:	KC.		Danal				Specifier:		Jon Hon	nal				
	tomer: e reports:		17uss 8 R-1336	& Panel				Designer: Company		Don Hap Boise Ca	-	MD - Lee	's Sumn	nit	
000		LOI	(-1000					Company	·. ·	50130 02			3 Outili	int	
	↓ ↓ ↓ ·	↓ ↓	+	+ + +	<b>→</b> <sup>3</sup> <b>→</b>	•	•			4	+ +	+ +	2	+ +	¥ ¥
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<i>*</i>							1	2-05-12							
B1					т	otal H	orizontal Pr	oduct Length	= 12-05	-12					B2
Rea	action Summ	narv	(Dow	n / Uplift)		otarn		ouuot Longin							
Bear			_ive		Dead		5	Snow		Wind		Roo	f Live		
	2-3/8"		352 / 0		167 /										
B2, 4	4-3/8"	3	362 / 0		207 /	0									
Loa	d Summary									Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description			Load Type		Ref.		End	Loc.	100%		115%	160%	125%	
1	FC1 Floor Decl View Fill)	king (	Plan	Unf. Lin. (I	b/ft)	L	00-00-00	) 12-05-12	Тор	57	14				n\a
2	FC1 Floor Decl View Fill)	king (	Plan	Unf. Lin. (I	b/ft)	L	08-02-14	12-05-12	Тор		13				n\a
3	FC1 Floor Decl	king (	Plan	Trapezoid	al (lb/ft)	L	00-02-14	Ļ	Тор		15				n∖a
	View Fill)							08-02-13			0				
4	18(i67)			Conc. Pt.	(lbs)	L	08-05-02	2 08-05-02	Тор		79				n∖a
Cor	ntrols Summ	arv	Valu		0/		ahla	Duration	Cas		ation				
	Moment	<u></u>		0 ft-lbs		8.0%		100%	0		05-01				
End	Reaction		520	lbs	5	0.6%		100%	1	00-	00-00				
End	Shear		537			6.4%		100%	1	12-	01-06				
Tota	I Load Deflection	n	L/67	73 (0.215")	5	3.5%		n∖a	1	06-	02-06				
	Load Deflection	1		031 (0.14")		6.6%		n\a	2		02-06				
	Defl.		0.21		2	1.5%		n∖a	1	06-	02-06				
Spai	n / Depth		15.2	2											
							% Allow	% Allow				Diec	001184		
Bea	aring Suppor		Dim. (Lx		Value		Support	Member	Mate	rial		-			Software is
B1 B2	Wall/Plate Wall/Plate		2-3/8" x 4-3/8" x		520 lb: 568 lb:		25.7% 15.3%	50.6% 50.5%		pecified		subject License	to the ter Agreem	rms of the ent (EULA	End User

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

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## Double 9-1/2" BCI® 5000s-1.8

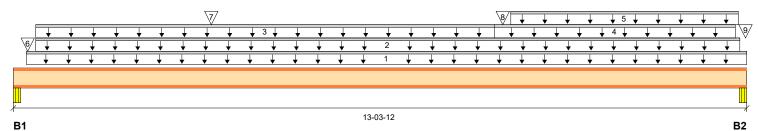
PASSED

December 22, 2021 10:31:03

# Foundation\Floor Joists\J11-16" O.C.(i1007) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J11-16" O.C.(i1007)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



**B1** 

#### Total Horizontal Product Length = 13-03-12

#### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live	
B1, 5-3/4"	171/0	216 / 0				
B2, 5-3/4"	178 / 0	412 / 0				

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	13-03-12	Тор	27	7				n∖a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-04-14	13-02-04	Тор		9				n∖a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-04-14	08-08-14	Тор		4				n∖a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	08-08-14	13-01-05	Тор		2				n∖a
5	33(i84)	Unf. Lin. (lb/ft)	L	09-00-06	13-01-15	Тор		57				n∖a
6	12(i59)	Conc. Pt. (lbs)	L	00-03-02	00-03-02	Тор		24				n∖a
7	38(i85)	Conc. Pt. (lbs)	L	03-07-02	03-07-02	Тор		42				n∖a
8	34(i80)	Conc. Pt. (lbs)	L	08-10-10	08-10-10	Тор		9				n∖a
9	31(i77)	Conc. Pt. (lbs)	L	13-03-08	13-03-08	Тор		73				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1199 ft-lbs	22.0%	100%	1	07-01-09
End Reaction	590 lbs	26.2%	100%	1	13-03-12
End Shear	478 lbs	16.2%	100%	1	12-10-00
Total Load Deflection	L/999 (0.097")	n\a	n∖a	1	06-09-12
Live Load Deflection	L/999 (0.041")	n\a	n∖a	2	06-07-13
Max Defl.	0.097"	n∖a	n\a	1	06-09-12
Span / Depth	15.8				

- ·	•			% Allow	% Allow		
Bearin	g Supports	Dim. (LxW)	Value	Support	Member	Material	
B1	Beam	5-3/4" x 4"	387 lbs	4.1%	17.2%	Unspecified	
B2	Beam	5-3/4" x 4"	590 lbs	6.3%	26.2%	Unspecified	



# Double 9-1/2" BCI® 5000s-1.8

PASSED

#### Foundation/Floor Joists/J11-16" O.C.(i1007) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J11-16" O.C.(i1007)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

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# Single 9-1/2" BCI® 5000s-1 8

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Boise Cascade"			Single	9-1/2		005-	1.0					PAS	SED
		Foundatio	n\Floor	Joists\J1	-16" O.C.	(i1009	9) (Floor J	loist)					
BC CALC® Member	r Report			ant.   16 OC		-			D	ecembe	r 22, 20	)21 10	):31:03
Build 8014			·	•		•							
Job name:	Lot 323 Par	k Ridge			File name	e:	Lot 323 Pa	ark Ridg	e.mmdl				
Address:					Descriptio	on:	Foundatio	n∖Floor 、	Joists\J1	-16" O.C	C.(i100	9)	
City, State, Zip:					Specifier:								
Customer:	KC-Truss &	Panel			Designer		Don Happ						
Code reports:	ESR-1336				Company	/:	Boise Cas	cade BN	/ID - Lee	's Sumn	nit		
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		<b>₩</b>											
09-04-1	4	7	12-10-0	00	7				17-06-14				
B1		B2	Total Ho	rizontal Pro	B3 duct Lenath	= 39-0	)9-12						B4
<b>Reaction Sumn</b>	narv (Dow	n / Unlift) (lbe			g								
Bearing	Live	Dea		Si	now		Wind		Roo	of Live			
B1, 4-3/8"	266 / 57	25	/ 0										
B2, 5-3/4"	700 / 0	343	3/0										
B3, 5-3/4"	992 / 0	518	3/0										
B4, 4-3/8"	412 / 21	90	/ 0										
Load Summary	,						Live	Dead	Snow	Wind	Roof		OCS
Tag Description		Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	Live 125%	,	
1 FC1 Floor Dec	king (Plan	Unf. Lin. (lb/ft)	L	00-00-00	39-09-12	Top	53	13				•	n∖a
View Fill)	0 (												

_	1		1 - 0 0 6 11	00.001			-			
_	Cor	ntrols Summary	Value	% Allowa	able D	Juration	Case	Location		
	3	32(i78)	Conc. Pt. (lbs)	L	23-03-02	23-03-02	Тор	76	n	∖a
	2	FC1 Floor Decking (Pla View Fill)	an Unf. Lin. (lb/ft)	L	09-06-14	23-00-14	Тор	27	n	∖a

Controls Summary	Value	% Allowable	Duration	Case	Location	
Pos. Moment	1739 ft-lbs	63.8%	100%	2	32-04-13	
Neg. Moment	-2111 ft-lbs	77.5%	100%	5	22-02-14	
End Reaction	502 lbs	44.6%	100%	2	39-09-12	
Int. Reaction	1509 lbs	59.8%	100%	5	22-02-14	
End Shear	477 lbs	32.4%	100%	2	39-05-06	
Cont. Shear	769 lbs	52.1%	100%	5	22-05-12	
Total Load Deflection	L/502 (0.412")	71.6%	n∖a	2	31-05-05	
Live Load Deflection	L/584 (0.355")	82.2%	n∖a	7	31-05-05	
Total Neg. Defl.	L/999 (-0.045")	n\a	n\a	2	18-06-03	
Max Defl.	0.412"	41.2%	n∖a	2	31-05-05	
Span / Depth	21.8					

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	291 lbs	7.8%	25.9%	Unspecified
B2	Beam	5-3/4" x 2"	1043 lbs	22.3%	41.3%	Unspecified
B3	Beam	5-3/4" x 2"	1509 lbs	32.3%	59.8%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	502 lbs	13.5%	44.6%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8

PASSED

# Foundation/Floor Joists/J1-16" O.C.(i1009) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J1-16" O.C.(i1009)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

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Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

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ENG	ise Cascade <sup>®</sup>	enort		tion\Floor	Joists\J1-	BCI® 50 16" O.C.(i1 DCS   Repetit	009) - 0 <sup>,</sup>	1 (Floo			acamba		<b>SSED</b> 10:31:03
SC CA Build 8		epon	Diyl	s spans   No			ive   Giue	u o nai	eu	D	ecembe	1 22, 2021	10.51.05
Job na		ot 323 Pa	rk Ridae			File name	e: Lo	t 323 Pa	ark Ridg	e.mmdl			
Addres			5			Descriptio					-16" O.0	C.(i1009)	
City, S	tate, Zip:					Specifier:						· · ·	
Custor	ner: k	C-Truss &	& Panel			Designer	: Do	on Happ	el				
Code r	eports: E	SR-1336				Company	/: Bo	oise Cas	cade BN	MD - Lee	's Sumn	nit	
			<b>—</b>				3						
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<u>/</u>	09-04-14		- <del>7</del>	12-1	0-00	¥				17-06-14			
B1			B2			B3 aduat Langth	- 20 00 1	n					B4
Soac	tion Summa	rv (Dow	n / Unlift			oduct Length	- 39-09-1	2					
Bearing		Live		Dead	9	Snow	v	Vind		Roo	of Live		
31, 4-3	- 3/8"	266 / 57	7	25 / 0									
32, 5-3		700 / 0		343 / 0									
33, 5-3		992 / 0		518 / 0									
34, 4-3	3/8"	412 / 2 <sup>-</sup>	1	90 / 0									
aad	Summany							Live	Dead	Snow	Wind	Roof	005
	Summary											Live	000
	escription		Load Type			End	Loc.	100%	90%	115%	160%	125%	
	C1 Floor Deckir 'iew Fill)	ig (Plan	Unf. Lin. (I	b/ft) L	00-00-00	) 39-09-12	Тор	53	13				n\a
	C1 Floor Deckir	ıg (Plan	Unf. Lin. (I	b/ft) L	09-06-14	1 23-00-14	Тор		27				n\a
	íew Fill)												
3 3	2(i78)		Conc. Pt.	(lbs) L	23-03-02	2 23-03-02	Тор		76				n\a
Cont	rols Summa	r <b>y</b> Valu		% Allov	vable	Duration	Case	Loca	tion				
	loment		9 ft-lbs	63.8%		100%	2		4-13				
	loment		11 ft-lbs	77.5%		100%	5		2-14				
	eaction	502	lbs	44.6%		100%	2	39-0	9-12				
nt. Re	action	150	9 lbs	59.8%		100%	5	22-0	2-14				
End Sh		477		32.4%		100%	2		5-06				
Cont. S		769		52.1%		100%	5		5-12				
	oad Deflection		02 (0.412")	71.6%		n\a	2		5-05				
	bad Deflection		34 (0.355")	82.2%		n\a	7		5-05				
I otal N Max D	leg. Defl.		99 (-0.045")	n\a 41.2%		n\a	2		6-03				
	Depth	0.41 21.8		41.2%		n\a	2	31-0	5-05				
Span /	Depin	21.0	,										
<b>- !</b>	0	_			% Allow	% Allow							
	ng Supports			Value	Support	Member	Materia						
31 22	Wall/Plate	4-3/8" x		291 lbs	7.8%	25.9%	Unspe						
32 33	Beam Beam	5-3/4" × 5-3/4" ×		1043 lbs 1509 lbs	22.3% 32.3%	41.3% 59.8%	Unspe Unspe						
	Wall/Plate	4-3/8" x		502 lbs	32.3 <i>%</i> 13.5%	59.8% 44.6%	Unspe						
34					10.0/0	11.0/0							
34							0.100						



# Single 9-1/2" BCI® 5000s-1.8

Foundation\Floor Joists\J1-16" O.C.(i1009) - 01 (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

PASSED

December 22, 2021 10:31:03

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Address:		Description:	Foundation\Floor Joists\J1-16" O.C.(i1009)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

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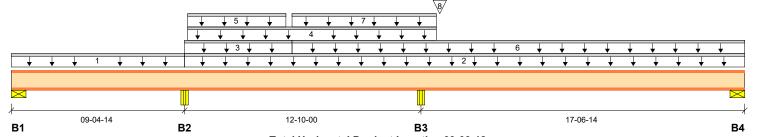


# Foundation\Floor Joists\J1-16" O.C.(i879) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

**Roof Live** 

Dry   3 spans   No can	t.   16 OCS   Repetitive	Glued & nailed	December 22, 2021 10:31:03
Ridge	File name:	Lot 323 Park Ridge	e.mmdl
	Description:	Foundation\Floor J	loists\J1-16" O.C.(i879)
	Specifier:		
anel	Designer:	Don Happel	
	Company:	Boise Cascade BN	1D - Lee's Summit
	Dry   3 spans   No can Ridge anel	Ridge File name: Description: Specifier: anel Designer:	Description: Foundation\Floor J Specifier: anel Designer: Don Happel



#### Total Horizontal Product Length = 39-09-12

Snow

Wind

# Reaction Summary (Down / Uplift) (lbs)

Live	Dead
264 / 55	27 / 0
692 / 0	337 / 0
930 / 0	508 / 0
385 / 20	84 / 0
	264 / 55 692 / 0 930 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	09-04-14	Тор	53	13				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-04-14	39-09-12	Тор	27	7				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-04-14	15-02-14	Тор	27	7				n∖a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-06-14	23-00-14	Тор		13				n\a
5	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-06-14	14-10-14	Тор		13				n\a
6	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	15-02-14	39-09-12	Тор	23	6				n∖a
7	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	15-02-14	23-00-14	Тор		11				n\a
8	32(i78)	Conc. Pt. (lbs)	L	23-03-02	23-03-02	Тор		94				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1628 ft-lbs	59.7%	100%	2	32-01-15
Neg. Moment	-1995 ft-lbs	73.2%	100%	5	22-02-14
End Reaction	469 lbs	41.7%	100%	2	39-09-12
Int. Reaction	1438 lbs	57.0%	100%	5	22-02-14
End Shear	446 lbs	30.3%	100%	2	39-05-06
Cont. Shear	741 lbs	50.2%	100%	5	22-05-12
Total Load Deflection	L/536 (0.387")	67.2%	n∖a	2	31-05-05
Live Load Deflection	L/625 (0.332")	76.8%	n\a	7	31-05-05
Total Neg. Defl.	L/999 (-0.043")	n∖a	n∖a	2	18-07-03
Max Defl.	0.387"	38.7%	n∖a	2	31-05-05
Span / Depth	21.8				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	291 lbs	7.8%	25.8%	Unspecified
B2	Beam	5-3/4" x 2"	1029 lbs	22.0%	40.7%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8



#### Foundation\Floor Joists\J1-16" O.C.(i879) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Job name: Address: City, State, Zip:	Lot 323 Park Ridge	File name: Description: Specifier:	Lot 323 Park Ridge.mmdl Foundation\Floor Joists\J1-16" O.C.(i879)
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B3	Beam	5-3/4" x 2"	1438 lbs	30.8%	57.0%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	469 lbs	12.6%	41.7%	Unspecified

#### **Notes**

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



# Single 9-1/2" BCI® 5000s-1.8

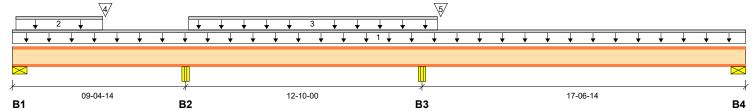


# Foundation\Floor Joists\J1-16" O.C.(i882) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J1-16" O.C.(i882)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



Total Horizontal Product Length = 39-09-12

aring	Live	Dead	Snow	Wind	Roof Live
, 4-3/8"	266 / 57	204 / 0			
, 5-3/4"	700 / 0	471/0			
, 5-3/4"	992 / 0	502 / 0			
. 4-3/8"	412 / 21	91/0			

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	39-09-12	Тор	53	13				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-06	04-10-14	Тор		43				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-06-14	23-00-14	Тор		27				n\a
4	40(i87)	Conc. Pt. (lbs)	L	05-00-10	05-00-10	Тор		93				n\a
5	32(i78)	Conc. Pt. (lbs)	L	23-03-02	23-03-02	Тор		76				n∖a

<b>Controls Summary</b>	Value	% Allowable	Duration	Case	Location
Pos. Moment	1751 ft-lbs	64.3%	100%	2	32-01-15
Neg. Moment	-2083 ft-lbs	76.4%	100%	5	22-02-14
End Reaction	503 lbs	44.7%	100%	2	39-09-12
Int. Reaction	1494 lbs	59.2%	100%	5	22-02-14
End Shear	479 lbs	32.5%	100%	2	39-05-06
Cont. Shear	767 lbs	52.0%	100%	5	22-05-12
Total Load Deflection	L/498 (0.416")	72.3%	n∖a	2	31-05-05
Live Load Deflection	L/584 (0.355")	82.2%	n∖a	7	31-05-05
Total Neg. Defl.	L/999 (-0.052")	n\a	n\a	2	18-02-02
Max Defl.	0.416"	41.6%	n∖a	2	31-05-05
Span / Depth	21.8				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	470 lbs	12.7%	41.8%	Unspecified
B2	Beam	5-3/4" x 2"	1171 lbs	25.1%	46.4%	Unspecified
B3	Beam	5-3/4" x 2"	1494 lbs	32.0%	59.2%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	503 lbs	13.5%	44.7%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8



# Foundation\Floor Joists\J1-16" O.C.(i882) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
	Description:	Foundation\Floor Joists\J1-16" O.C.(i882)
	Specifier:	
KC-Truss & Panel	Designer:	Don Happel
ESR-1336	Company:	Boise Cascade BMD - Lee's Summit
	KC-Truss & Panel	Description: Specifier: KC-Truss & Panel Designer:

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



# Single 9-1/2" BCI® 5000s-1.8

PASSED

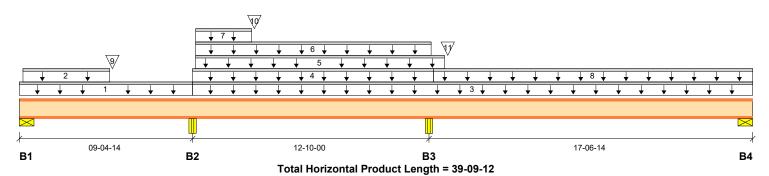
# Foundation\Floor Joists\J1-16" O.C.(i883) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

**Roof Live** 

BC CALC® Member Report	Dry   3 spans   No c	ant.   16 OCS   Repetitive   0	Glued & nailed	December 22, 2021 10:3
Build 8014				
Job name: Lot 323 Par	k Ridge	File name:	Lot 323 Park Ridge.m	mdl
Address:		Description:	Foundation\Floor Jois	ts\J1-16" O.C.(i883)
City, State, Zip:		Specifier:		
Customer: KC-Truss &	Panel	Designer:	Don Happel	
Code reports: ESR-1336		Company:	Boise Cascade BMD ·	- Lee's Summit



Snow

Wind

# Reaction Summary (Down / Uplift) (lbs)

Live	Dead
266 / 48	86 / 0
636 / 0	547 / 0
935 / 0	465 / 0
412 / 17	90 / 0
	266 / 48 636 / 0 935 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	09-04-14	Тор	53	13				n∖a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-06	04-10-14	Тор		14				n∖a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-04-14	39-09-12	Тор	27	7				n∖a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-04-14	22-05-12	Тор	18	5				n∖a
5	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-06-14	23-00-14	Тор		13				n∖a
6	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-06-14	22-04-04	Тор		9				n∖a
7	39(i86)	Unf. Lin. (lb/ft)	L	09-06-14	12-07-06	Тор		57				n∖a
8	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	22-05-12	39-09-12	Тор	27	7				n∖a
9	40(i87)	Conc. Pt. (lbs)	L	05-00-10	05-00-10	Тор		56				n∖a
10	38(i85)	Conc. Pt. (lbs)	L	12-09-02	12-09-02	Тор		24				n∖a
11	32(i78)	Conc. Pt. (lbs)	L	23-03-02	23-03-02	Тор		53				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1737 ft-lbs	63.8%	100%	2	32-04-13
Neg. Moment	-2034 ft-lbs	74.6%	100%	5	22-02-14
End Reaction	501 lbs	44.6%	100%	2	39-09-12
Int. Reaction	1400 lbs	55.5%	100%	5	22-02-14
End Shear	477 lbs	32.4%	100%	2	39-05-06
Cont. Shear	739 lbs	50.1%	100%	5	22-05-12
Total Load Deflection	L/504 (0.412")	71.5%	n∖a	2	31-05-05
Live Load Deflection	L/584 (0.355")	82.2%	n∖a	7	31-05-05
Total Neg. Defl.	L/999 (-0.046")	n\a	n∖a	2	18-06-13
Max Defl.	0.412"	41.2%	n∖a	2	31-05-05
Span / Depth	21.8				



# Single 9-1/2" BCI® 5000s-1.8

PASSED

# Foundation\Floor Joists\J1-16" O.C.(i883) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014 Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation/Floor Joists/J1-16" O.C.(i883)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

Beari	ng Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	352 lbs	9.5%	31.3%	Unspecified
B2	Beam	5-3/4" x 2"	1182 lbs	25.3%	46.8%	Unspecified
B3	Beam	5-3/4" x 2"	1400 lbs	30.0%	55.5%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	501 lbs	13.5%	44.6%	Unspecified

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8

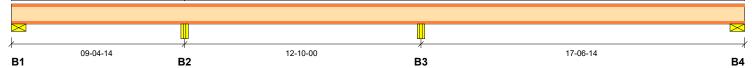
PASSED

# Foundation\Floor Joists\J1-16" O.C.(i976) (Floor Joist)

Dry 13 spans | No cant, 116 OCS | Repetitive | Glued & nailed

Roof Live

BC CALC® Member Report		Dry   3 spans   No cant.   16 O	CS   Repetitive	Glued & nailed	December 22, 2021 10:31:03
Build 8014					
Job name:	Lot 323 Park Ri	idge	File name:	Lot 323 Park Ridge.m	mdl
Address:			Description:	Foundation\Floor Jois	ts\J1-16" O.C.(i976)
City, State, Zip:			Specifier:		
Customer:	KC-Truss & Par	nel	Designer:	Don Happel	
Code reports:	ESR-1336		Company:	Boise Cascade BMD -	- Lee's Summit
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			12 ह		
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Total Horizontal Product Length = 39-09-12

Wind

#### Reaction Summary (Down / Uplift) (Ibs) Bearing Live Dead Snow

B1, 4-3/8"	254 / 57	0 / 49
B2, 5-3/4"	695 / 0	834 / 0
B3, 5-3/4"	992 / 0	743 / 0
B4, 4-3/8"	412 / 21	63 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	09-04-14	Тор	27	7				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	04-10-14	Тор	23	6				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	04-10-14	09-04-14	Тор	27	7				n∖a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-04-14	39-09-12	Тор	53	13				n\a
5	37(i81)	Unf. Lin. (lb/ft)	L	09-06-14	18-00-14	Тор		57				n∖a
6	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-06-14	16-10-14	Тор		27				n\a
7	31(i77)	Unf. Lin. (lb/ft)	L	18-00-03	18-04-10	Тор		80				n∖a
8	50(i97)	Unf. Lin. (lb/ft)	L	20-05-14	20-10-05	Тор		80				n∖a
9	38(i85)	Conc. Pt. (lbs)	L	12-09-02	12-09-02	Тор		38				n∖a
10	FC1 Floor Decking (Plan View Fill)	Conc. Pt. (lbs)	L	17-00-10	17-00-10	Тор		41				n\a
11	-	Conc. Pt. (lbs)	L	18-01-05	18-01-05	Тор		96				n∖a
12	50(i97)	Conc. Pt. (lbs)	L	20-08-01	20-08-01	Тор		114				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1850 ft-lbs	67.9%	100%	3	15-10-07
Neg. Moment	-2482 ft-lbs	91.1%	100%	5	22-02-14
End Reaction	475 lbs	42.2%	100%	2	39-09-12
Int. Reaction	1735 lbs	68.7%	100%	5	22-02-14
End Shear	451 lbs	30.6%	100%	2	39-05-06
Cont. Shear	1009 lbs	68.4%	100%	4	09-07-12
Total Load Deflection	L/580 (0.265")	62.1%	n∖a	3	15-10-07
Live Load Deflection	L/584 (0.355")	82.2%	n∖a	7	31-05-06
Total Neg. Defl.	L/999 (-0.077")	n∖a	n∖a	3	27-05-12
Max Defl.	0.348"	34.8%	n∖a	2	31-08-04
Span / Depth	21.8				



# Single 9-1/2" BCI® 5000s-1.8

PASSED

# Foundation\Floor Joists\J1-16" O.C.(i976) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J1-16" O.C.(i976)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	205 lbs	5.5%	18.2%	Unspecified
B1	Uplift		105 lbs			
B2	Beam	5-3/4" x 2"	1529 lbs	32.7%	60.6%	Unspecified
B3	Beam	5-3/4" x 2"	1735 lbs	37.1%	68.7%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	475 lbs	12.8%	42.2%	Unspecified

#### Cautions

Uplift of -105 lbs found at bearing B1.

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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《叙	Boise Cascade®			Singl	e 9-1/2"	BCI® 50	00s-1.	8				P	ASSED
			Foundati	on\Floo	r Joists\J1	I-16" O.C.	(i988) (	Floor J	oist)				
	CALC® Member d 8014	Report	Dry   3 spa	ins   No c	ant.   16 OC	S   Repetiti	ve   Glue	ed & nail	ed	De	ecembe	r 22, 202	21 10:31:03
	name:	Lot 323 Pa	ırk Ridae			File name	: Lo	ot 323 Pa	rk Rida	e.mmdl			
	ress:					Descriptio		oundation	-		-16" O.C	C.(i988)	
City	, State, Zip:					Specifier:						· · ·	
Cus	tomer:	KC-Truss &	& Panel			Designer:	Do	on Happ	el				
Cod	e reports:	ESR-1336				Company	:: Во	oise Cas	cade BN	/ID - Lee	's Sumn	nit	
			77 87		9	40							
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	1												
	1		<u>III</u>										
-	09-04-14			12-10-	00	7				17-06-14			7
B1			B2	Total Ho	orizontal Pro	B3 duct Lenath	= 39-09-1	12					B4
Rea	action Summ	arv (Dow	/n / Uplift) (lb										
Bear		Live	De	•	Sr	now	١	Nind		Roo	f Live		
B1,	4-3/8"	266 / 3	7 32	/ 0									
	5-3/4"	559 / 0	29	6/0									
	5-3/4"	867 / 0	-	5/0									
B4,	4-3/8"	412 / 1	4 92	/ 0									
								Live	Dead	Snow	Wind	Roof	ocs
	ad Summary						_					Live	
	Description	ing (Dlan	Load Type	Ref.	Start	End	Loc.	<b>100%</b> 53	<b>90%</b> 13	115%	160%	125%	<u></u>
1	FC1 Floor Deck View Fill)		Unf. Lin. (lb/ft)	L	00-00-00	09-04-14	Тор						n∖a
2	FC1 Floor Deck View Fill)	king (Plan	Unf. Lin. (lb/ft)	L	09-04-14	39-09-12	Тор	27	7				n∖a
3	FC1 Floor Deck View Fill)	king (Plan	Unf. Lin. (lb/ft)	L	09-04-14	22-05-12	Тор	8	2				n\a
4	FC1 Floor Deck View Fill)	king (Plan	Unf. Lin. (lb/ft)	L	09-06-14	17-10-14	Тор		18				n\a
5	31(i77)		Unf. Lin. (lb/ft)	L	22-00-03	22-04-10	Тор		80				n\a
6	FC1 Floor Deck View Fill)	king (Plan	Unf. Lin. (lb/ft)	L	22-05-12	39-09-12	Тор	27	7				n∖a
7	12(i59)		Conc. Pt. (lbs)	L	09-05-02	09-05-02	Тор		14				n∖a
8	38(i85)		Conc. Pt. (lbs)	L	12-09-02	12-09-02	Тор		47				n\a
9	34(i80)		Conc. Pt. (lbs)	L	18-00-10	18-00-10	Тор		47				n\a
10	31(i77)		Conc. Pt. (lbs)	L	22-02-06	22-02-06	Тор		38				n\a
Co	ntrols Summ	ary <sub>Valu</sub>	le	% Allowa	able D	uration	Case	Loca	tion				
	. Moment	175	3 ft-lbs	64.3%		00%	2	32-0	2-00				
	. Moment		70 ft-lbs	68.6%		00%	5	22-0					
	Reaction		lbs	44.8%		00%	2	39-0					
	Reaction		1 lbs	49.2%		00%	5	22-0					
	Shear		lbs	32.5%		00%	2	39-0					
	t. Shear		lbs	45.4%		00%	5	22-0					
	I Load Deflection		98 (0.416")	72.3%		la	2	31-0					
LIVe	Load Deflection	L/58	84 (0.355")	82.2%	n	\a	7	31-0	5-06				

2

2

18-03-00

31-05-06

n∖a

n∖a

Span / D	epth	21.8					
Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material	
B1	Wall/Plate	4-3/8" x 2"	298 lbs	8.0%	26.5%	Unspecified	
B2	Beam	5-3/4" x 2"	855 lbs	18.3%	33.9%	Unspecified	

n∖a

41.6%

L/999 (-0.057") 0.416"

Total Neg. Defl. Max Defl.



# Single 9-1/2" BCI® 5000s-1.8



#### Foundation\Floor Joists\J1-16" O.C.(i988) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Job name: Address: City, State, Zip:	Lot 323 Park Ridge	File name: Description: Specifier:	Lot 323 Park Ridge.mmdl Foundation\Floor Joists\J1-16" O.C.(i988)	
Customer:	KC-Truss & Panel	Designer:	Don Happel	
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit	

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B3	Beam	5-3/4" x 2"	1241 lbs	26.6%	49.2%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	504 lbs	13.5%	44.8%	Unspecified

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



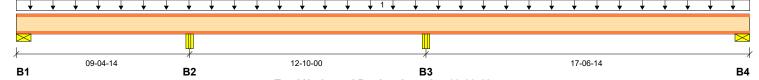
# Single 9-1/2" BCI® 5000s-1.8

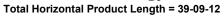


Foundation\Floor Joists\J1-16" O.C.(i989) (Floor Joist) Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

BC CALC® Member Report		Dry   3 spans   No ca	Dry   3 spans   No cant.   16 OCS   Repetitive			December 22, 2021 10:31:0	
Build 8014							
Job name:	Lot 323 Park Ridge			File name:	Lot 323 Park Ridge.mmdl		
Address:				Description:	Foundation\Floor Joist	s\J1-16" O.C.(i989)	
City, State, Zip:				Specifier:			
Customer:	KC-Truss & Par	nel		Designer:	Don Happel		
Code reports:	ESR-1336			Company:	Boise Cascade BMD -	Lee's Summit	
	_	6					
		3 4 4	4	2			
			_ <b>↓</b> !	Ş			





# Reaction Summary (Down / Uplift) (Ibs)

Bearing	Live	Dead	Snow	Wind	Roof Live					
B1, 4-3/8"	266 / 57	3/0								
B2, 5-3/4"	700 / 0	473 / 0								
B3, 5-3/4"	992 / 0	505 / 0								
B4, 4-3/8"	412 / 21	79/0								

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	39-09-12	Тор	53	13				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-06-14	17-10-14	Тор		13				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-06-14	16-10-14	Тор		13				n\a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	17-02-06	17-10-14	Тор		36				n\a
5	31(i77)	Unf. Lin. (lb/ft)	L	19-04-03	19-08-10	Тор		80				n\a
6	38(i85)	Conc. Pt. (lbs)	L	12-09-02	12-09-02	Тор		76				n∖a
7	FC1 Floor Decking (Plan View Fill)	Conc. Pt. (lbs)	L	17-00-10	17-00-10	Тор		21				n\a
8	34(i80)	Conc. Pt. (lbs)	L	18-00-10	18-00-10	Тор		76				n\a
9	31(i77)	Conc. Pt. (lbs)	L	19-06-06	19-06-06	Тор		77				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1665 ft-lbs	61.1%	100%	2	32-04-14
Neg. Moment	-2204 ft-lbs	80.9%	100%	5	22-02-14
End Reaction	491 lbs	43.7%	100%	2	39-09-12
Int. Reaction	1497 lbs	59.3%	100%	5	22-02-14
End Shear	467 lbs	31.7%	100%	2	39-05-06
Cont. Shear	777 lbs	52.7%	100%	5	22-00-00
Total Load Deflection	L/536 (0.387")	67.1%	n\a	2	31-06-13
Live Load Deflection	L/584 (0.355")	82.2%	n\a	7	31-05-06
Total Neg. Defl.	L/999 (-0.04")	n∖a	n\a	3	26-04-13
Max Defl.	0.387"	38.7%	n\a	2	31-06-13
Span / Depth	21.8				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	269 lbs	7.2%	23.9%	Unspecified
B2	Beam	5-3/4" x 2"	1173 lbs	25.1%	46.5%	Unspecified
B3	Beam	5-3/4" x 2"	1497 lbs	32.0%	59.3%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8

PASSED

# Foundation/Floor Joists/J1-16" O.C.(i989) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J1-16" O.C.(i989)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B4	Wall/Plate	4-3/8" x 2"	491 lbs	13.2%	43.7%	Unspecified

#### Cautions

Uplift of -54 lbs found at bearing B1.

#### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. BC CALC® analysis is based on IBC 2009. Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



# Single 9-1/2" BCI® 5000s-1.8

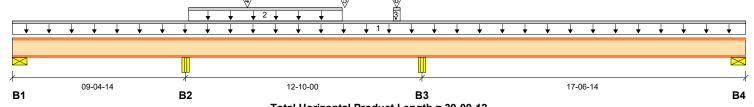


# Foundation/Floor Joists/J1-16" O.C.(i999) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014				
Job name:	Lot 323 Park Ridge		File name:	Lot 323 Park Ridge.mmdl
Address:			Description:	Foundation\Floor Joists\J1-16" O.C.(i999)
City, State, Zip:			Specifier:	
Customer:	KC-Truss & Panel		Designer:	Don Happel
Code reports:	ESR-1336		Company:	Boise Cascade BMD - Lee's Summit
		5	6	



Total Horizontal Product Length = 39-09-12

#### Reaction Summary (Down / Uplift) (lbs) Bearing Dead Wind Roof Live Live Snow B1, 4-3/8" 266 / 57 10/0 B2, 5-3/4" 700/0 439/0 B3, 5-3/4" 992 / 0 489 / 0 B4, 4-3/8" 412/21 83/0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	39-09-12	Тор	53	13				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-06-14	17-10-14	Тор		27				n\a
3	31(i77)	Unf. Lin. (lb/ft)	L	20-08-03	21-00-10	Тор		80				n∖a
4	38(i85)	Conc. Pt. (lbs)	L	12-09-02	12-09-02	Тор		76				n∖a
5	34(i80)	Conc. Pt. (lbs)	L	18-00-10	18-00-10	Тор		76				n∖a
6	31(i77)	Conc. Pt. (lbs)	L	20-10-07	20-10-07	Тор		77				n∖a

<b>Controls Summary</b>	Value	% Allowable	Duration	Case	Location
Pos. Moment	1690 ft-lbs	62.0%	100%	2	32-04-14
Neg. Moment	-2144 ft-lbs	78.7%	100%	5	22-02-14
End Reaction	495 lbs	44.0%	100%	2	39-09-12
Int. Reaction	1480 lbs	58.6%	100%	5	22-02-14
End Shear	471 lbs	31.9%	100%	2	39-05-06
Cont. Shear	765 lbs	51.8%	100%	5	22-00-00
Total Load Deflection	L/525 (0.395")	68.6%	n∖a	2	31-08-04
Live Load Deflection	L/584 (0.355")	82.2%	n∖a	7	31-05-06
Total Neg. Defl.	L/999 (-0.032")	n\a	n∖a	3	26-01-14
Max Defl.	0.395"	39.5%	n∖a	2	31-08-04
Span / Depth	21.8				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	277 lbs	7.4%	24.6%	Unspecified
B2	Beam	5-3/4" x 2"	1139 lbs	24.4%	45.1%	Unspecified
B3	Beam	5-3/4" x 2"	1480 lbs	31.7%	58.6%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	495 lbs	13.3%	44.0%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8



# Foundation/Floor Joists/J1-16" O.C.(i999) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
	Description:	Foundation\Floor Joists\J1-16" O.C.(i999)
	Specifier:	
KC-Truss & Panel	Designer:	Don Happel
ESR-1336	Company:	Boise Cascade BMD - Lee's Summit
	KC-Truss & Panel	C Description: Specifier: KC-Truss & Panel Designer:

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8

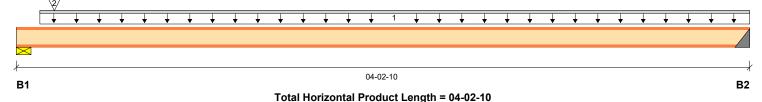


# Foundation\Floor Joists\J14-16" O.C.(i912) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J14-16" O.C.(i912)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit
~~~~			



Snow

Wind

# Reaction Summary (Down / Uplift) (lbs)

Беагінд	LIVE	Dead
B1, 4-3/8"	173 / 0	119/0
B2, 2"	70 / 0	17 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	04-02-10	Тор	35	9				n\a
2	4(i51)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	101	101				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	79 ft-Ibs	2.9%	100%	1	02-02-08
End Reaction	292 lbs	26.0%	100%	1	00-00-00
End Shear	80 lbs	5.4%	100%	1	00-04-06
Total Load Deflection	L/999 (0.002")	n∖a	n\a	1	02-02-08
Live Load Deflection	L/999 (0.002")	n\a	n∖a	2	02-02-08
Max Defl.	0.002"	n\a	n∖a	1	02-02-08
Span / Depth	4.8				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	292 lbs	7.9%	26.0%	Unspecified
B2	Hanger	2" x 2"	87 lbs	6.3%	8.8%	ITS2.06/9.5

#### Cautions

Header for the hanger ITS2.06/9.5 is a Single 1-3/4" x 9-1/2" LVL Beam.

Hanger ITS2.06/9.5 requires (2) 10dx1.5 face nails, (4) 10dx1.5 TF nails, (2) Strong-Grip joist nails.

#### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. Hanger Manufacturer: Simpson Strong-Tie, Inc. BC CALC® analysis is based on IBC 2009. Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member. Design based on Dry Service Condition. Calculations assume member is fully braced.

#### Disclosure

Roof Live

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# Single 9-1/2" BCI® 5000s-1.8

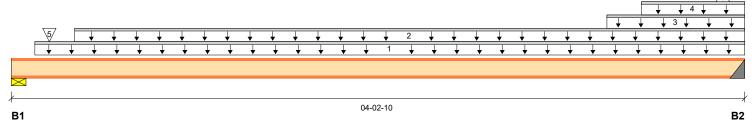


# Foundation\Floor Joists\J14-16" O.C.(i916) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

BC CALC® Membe	er Report	Dry   1 span   No ca	nt.   16 OCS   Repetitive	Glued & nailed	December 22, 2021 10:3
Build 8014					
Job name:	Lot 323 Park Rie	dge	File name:	Lot 323 Park Ridge	.mmdl
Address:			Description:	Foundation\Floor Jo	oists\J14-16" O.C.(i916)
City, State, Zip:			Specifier:		
Customer:	KC-Truss & Par	el	Designer:	Don Happel	
Code reports:	ESR-1336		Company:	Boise Cascade BM	D - Lee's Summit



#### Total Horizontal Product Length = 04-02-10

Reaction Sum	nmary (Down / Up	olift) (lbs)				
Bearing	Live	Dead	Snow	Wind	Roof Live	
B1, 4-3/8"	223 / 0	421 / 0				
B2, 2"	142 / 24	211/0				

Lo	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	04-02-10	Тор	36	9				n\a
2	3(i50)	Unf. Lin. (lb/ft)	L	00-04-06	04-02-10	Тор		57				n∖a
3	3(i50)	Unf. Lin. (lb/ft)	L	03-05-02	04-02-10	Тор	40	51				n∖a
4	3(i50)	Unf. Lin. (lb/ft)	L	03-07-08	04-02-10	Тор	72	74				n∖a
5	4(i51)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	144	292				n∖a
6	3(i50)	Conc. Pt. (lbs)	L	04-01-02	04-01-02	Тор	-24					n∖a

Controls Summary	Value	% Allow	wable	Duration	Case	Location
Pos. Moment	205 ft-lbs	7.5%		100%	1	02-03-11
End Reaction	644 lbs	57.2%		100%	1	00-00-00
End Shear	296 lbs	20.1%		100%	1	04-00-10
Total Load Deflection	L/999 (0.006")	n\a		n∖a	1	02-03-05
Live Load Deflection	L/999 (0.002")	n\a		n∖a	3	02-03-11
Max Defl.	0.006"	n\a		n∖a	1	02-03-05
Span / Depth	4.8					
Bearing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material	<u> </u>
B1 Wall/Plate	4-3/8" x 2"	644 lbs	17.3%	57.2%	Unspec	ified
B2 Hanger	2" x 2"	353 lbs	25.3%	35.5%	ITS2.06	6/9.5

#### Cautions

Header for the hanger ITS2.06/9.5 is a Single 1-3/4" x 9-1/2" LVL Beam.

Hanger ITS2.06/9.5 requires (2) 10dx1.5 face nails, (4) 10dx1.5 TF nails, (2) Strong-Grip joist nails.



# Single 9-1/2" BCI® 5000s-1.8



### Foundation/Floor Joists/J14-16" O.C.(i916) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J14-16" O.C.(i916)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



# Foundation/Floor Joists/J14-16" O.C.(i919) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J14-16" O.C.(i919)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

₁ B1					(	04-09-02							B2
DI				Total H	orizontal Pr	oduct Length	= 04-09-0	2					D2
Reac	tion Summar	y (Dowr	າ / Uplift)	(lbs)									
Bearing		Live		Dead	;	Snow	v	Vind		Roo	f Live		
B1, 2"		130 / 0		32 / 0									
B2, 4-3	3/8"	141 / 0		35 / 0									
Load	Summary							Live	Dead	Snow	Wind	Roof Live	ocs
Tag D	escription		Load Type	Ref	Start	End	Loc.	100%	90%	115%	160%	125%	
	C1 Floor Decking	g (Plan	Unf. Lin. (I	b/ft) L	00-00-00	04-09-02	Тор	57	14				n\a
V	′iew Fill)												
	rols Summar	<b>y</b> Value	)	% Allov	vable	Duration	Case	Loca	tion				
Cont	,	<b>y Value</b> 168 f		% Allov 6.2%	vable	Duration 100%	Case 1	<b>Loca</b> 02-0					
Cont Pos. M	rols Summary		t-lbs		vable				3-06				
Cont Pos. M End Re	rols Summary Ioment eaction	168 f	īt-lbs bs	6.2%	vable	100%		02-0	3-06 0-00				
Cont Pos. M End Re End St	rols Summary Ioment eaction	168 f 162 l 150 l	īt-lbs bs	6.2% 16.3%	vable	100% 100%	1 1	02-0 00-0	3-06 0-00 2-00				
Cont Pos. M End Re End Sl Total L	rols Summary Ioment eaction hear	168 f 162 l 150 l L/999 L/999	t-lbs bs bs 9 (0.006") 9 (0.004")	6.2% 16.3% 10.2%	vable	100% 100% 100%	1 1 1	02-0 00-0 00-0	3-06 0-00 2-00 3-06				
Cont Pos. M End Re End Sl Total L	rols Summary loment eaction hear .oad Deflection bad Deflection	168 f 162 l 150 l L/999	t-lbs bs bs 9 (0.006") 9 (0.004")	6.2% 16.3% 10.2% n\a		100% 100% 100% n\a	1 1 1 1	02-0 00-0 00-0 02-0	3-06 0-00 2-00 3-06 3-06				
Cont Pos. M End Re End SI Total L Live Lo	rols Summary loment eaction hear .oad Deflection oad Deflection efl.	168 f 162 l 150 l L/999 L/999	t-lbs bs bs 9 (0.006") 9 (0.004")	6.2% 16.3% 10.2% n\a n\a		100% 100% 100% n\a n\a	1 1 1 2	02-0 00-0 00-0 02-0 02-0	3-06 0-00 2-00 3-06 3-06				
Cont Pos. W End Re End Sł Total L Live Lo Max D Span / Beari	rols Summary Ioment eaction hear .oad Deflection oad Deflection efl. Depth	168 f 162 l 150 l L/999 0.006 5.5 Dim. (Lx)	t-lbs bs bs 9 (0.006") 9 (0.004") 5"	6.2% 16.3% 10.2% n\a n\a N\a	% Allow Support	100% 100% n\a n\a n\a % Allow Member	1 1 1 2 1 <b>Materi</b> a	02-0 00-0 02-0 02-0 02-0	3-06 0-00 2-00 3-06 3-06				
Cont Pos. M End Rd End Sł Total L Live Lo Max D Span /	rols Summary loment eaction hear .oad Deflection oad Deflection efl. Depth	168 f 162 l 150 l L/999 L/999 0.006 5.5	t-lbs bs 9 (0.006") 9 (0.004") 6" <b>∧)</b>	6.2% 16.3% 10.2% n\a n\a n\a	% Allow	100% 100% n\a n\a n\a <b>% Allow</b>	1 1 1 2 1	02-0 00-0 02-0 02-0 02-0 02-0 <b>al</b>	3-06 0-00 2-00 3-06 3-06				

#### Cautions

Header for the hanger ITS2.06/9.5 is a Double 1-3/4" x 9-1/2" LVL Beam. Hanger ITS2.06/9.5 requires (2) 10d face nails, (4) 10d TF nails, (2) Strong-Grip joist nails.

#### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. Hanger Manufacturer: Simpson Strong-Tie, Inc. BC CALC® analysis is based on IBC 2009. Composite EL value based on 3/4" thick OSB sheathing dued and poiled to p

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



Foundation/Floor Joists/J14-16" O.C.(i970) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

File name:	Lot 323 Park Ridge.mmdl	
Description:	Foundation\Floor Joists\J14-16" O.C.(i970)	
Specifier:		
Designer:	Don Happel	
Company:	Boise Cascade BMD - Lee's Summit	
	Description: Specifier: Designer:	Description: Foundation\Floor Joists\J14-16" O.C.(i970) Specifier: Designer: Don Happel

л В1					04-09-02							B2
ы			Total H	lorizontal P	Product Length	= 04-09-0	2					02
Reacti	on Summar	y (Down / Uplift	) (lbs)									
Bearing		Live	Dead		Snow	v	Vind		Roo	f Live		
B1, 2"		113/0	28/0									
B2, 4-3/8	8"	123 / 0	31 / 0									
Load S	Summary						Live	Dead	Snow	Wind	Roof Live	008
Tag Des	scription	Load Type	Ref	. Start	End	Loc.	100%	90%	115%	160%	125%	
4 50												
1 FC	1 Floor Decking	g (Plan Unf. Lin. (	lb/ft) L	00-00-0	00 04-09-02	Тор	50	12				n\a
	1 Floor Decking w Fill)	g (Plan Unf. Lin. (	lb/ft) L	00-00-0	00 04-09-02	Тор	50	12				n\a
Vie	ew Fill)		lb/ft) L % Allow		0 04-09-02	·						n∖a
Vie Contro	ew Fill) ols Summar		,			Top Case	Loca					n\a
Vie Contro	ew Fill) D <b>IS Summar</b> ment	<b>y</b> Value	% Allow		Duration	Case	Loca	<b>tion</b> 3-06				n\a
Vie Contro Pos. Mor End Rea	ew Fill) D <b>IS Summar</b> ment action	<b>Y Value</b> 147 ft-lbs	% Allov 5.4%		Duration 100%	Case	<b>Loca</b> 02-0	<u>tion</u> 3-06 0-00				n\a
Vie Contro Pos. Moi End Rea End She	ew Fill) D <b>IS Summar</b> ment action	<b>Y Value</b> 147 ft-lbs 141 lbs	% Allov 5.4% 14.2%		<b>Duration</b> 100% 100%	Case 1 1	Loca 02-0 00-0	<u>tion</u> 3-06 0-00 2-00				n\a
Vie Contro Pos. Mo End Rea End She Total Loa	ew Fill) D <b>Is Summar</b> ment action ear	<b>Y Value</b> 147 ft-lbs 141 lbs 131 lbs	% Allov 5.4% 14.2% 8.9%		<b>Duration</b> 100% 100% 100%	<b>Case</b> 1 1 1	Loca 02-0 00-0 00-0 02-0	<u>tion</u> 3-06 0-00 2-00				n\a
Vie Contro Pos. Mol End Rea End She Total Loa Live Loa	ew Fill) <b>DIS Summar</b> ment action ear ad Deflection ad Deflection	<b>Y Value</b> 147 ft-lbs 141 lbs 131 lbs L/999 (0.005")	<mark>% Allov</mark> 5.4% 14.2% 8.9% n∖a		Duration 100% 100% 100% n\a	Case 1 1 1 1	Loca 02-0 00-0 00-0 02-0 02-0	tion 3-06 0-00 2-00 3-06				n\a
Vie Contro Pos. Moi End Rea End She Total Loa Live Loa Max Def	ew Fill) DIS Summar ment action ear ad Deflection ad Deflection fl.	<b>Y Value</b> 147 ft-lbs 141 lbs 131 lbs L/999 (0.005") L/999 (0.004")	% Allov 5.4% 14.2% 8.9% n∖a n∖a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 02-0 00-0 00-0 02-0 02-0	tion 3-06 0-00 2-00 3-06 3-06				n\a
Vie <b>Contro</b> Pos. Moi End Rea End She Total Loa Live Loa Max Def Span / D	ew Fill) DIS Summar ment action ear ad Deflection ad Deflection fl.	<b>Y Value</b> 147 ft-lbs 141 lbs 131 lbs L/999 (0.005") L/999 (0.004") 0.005" 5.5	% Allov 5.4% 14.2% 8.9% n∖a n∖a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 02-0 00-0 02-0 02-0 02-0	tion 3-06 0-00 2-00 3-06 3-06				n\a
Vie Pos. Moi End Rea End She Total Loa Live Loa Max Def Span / D	ew Fill) <b>DIS Summar</b> ment action ear ad Deflection id Deflection fl. Depth	<b>Y Value</b> 147 ft-lbs 141 lbs 131 lbs L/999 (0.005") L/999 (0.004") 0.005" 5.5	% Allov 5.4% 14.2% 8.9% n\a n\a n\a	vable % Allow	Duration 100% 100% n\a n\a n\a % Allow	Case 1 1 1 1 2 1	Loca 02-0 00-0 02-0 02-0 02-0	tion 3-06 0-00 2-00 3-06 3-06				n\a

#### Cautions

Header for the hanger ITS2.06/9.5 is a Double 1-3/4" x 9-1/2" LVL Beam. Hanger ITS2.06/9.5 requires (2) 10d face nails, (4) 10d TF nails, (2) Strong-Grip joist nails.

#### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. Hanger Manufacturer: Simpson Strong-Tie, Inc. BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8

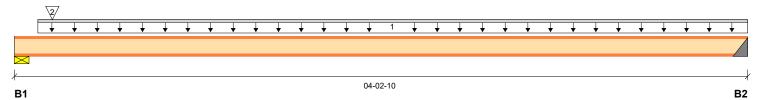


# Foundation\Floor Joists\J14-16" O.C.(i979) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014				
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl	
Address:		Description:	Foundation\Floor Joists\J14-16" O.C.(i979)	
City, State, Zip:		Specifier:		
Customer:	KC-Truss & Panel	Designer:	Don Happel	
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit	



Total Horizontal Product Length = 04-02-10

Snow

Wind

# Reaction Summary (Down / Uplift) (Ibs)

Dearing	LIVE	Deau
B1, 4-3/8"	191 / 0	79/0
B2, 2"	107 / 0	27 / 0

Loa	bad Summary							Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	04-02-10	Тор	53	13				n\a
2	4(i51)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	80	51				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	121 ft-lbs	4.4%	100%	1	02-02-08
End Reaction	269 lbs	23.9%	100%	1	00-00-00
End Shear	123 lbs	8.3%	100%	1	00-04-06
Total Load Deflection	L/999 (0.004")	n∖a	n∖a	1	02-02-08
Live Load Deflection	L/999 (0.003")	n∖a	n∖a	2	02-02-08
Max Defl.	0.004"	n∖a	n∖a	1	02-02-08
Span / Depth	4.8				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	269 lbs	7.2%	23.9%	Unspecified
B2	Hanger	2" x 2"	134 lbs	9.6%	13.5%	ITS2.06/9.5

#### Cautions

Header for the hanger ITS2.06/9.5 is a Single 1-3/4" x 9-1/2" LVL Beam.

Hanger ITS2.06/9.5 requires (2) 10dx1.5 face nails, (4) 10dx1.5 TF nails, (2) Strong-Grip joist nails.

#### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. Hanger Manufacturer: Simpson Strong-Tie, Inc. BC CALC® analysis is based on IBC 2009. Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member. Design based on Dry Service Condition. Calculations assume member is fully braced.

#### Disclosure

Roof Live

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# Single 9-1/2" BCI® 5000s-1.8

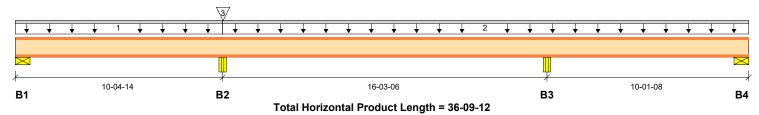


Foundation\Floor Joists\J2-16" O.C.(i903) (Floor Joist) Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Roof Live

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J2-16" O.C.(i903)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



#### Reaction Summary (Down / Uplift) (lbs)

		(180)		
Bearing	Live	Dead	Snow	Wind
B1, 4-3/8"	256 / 81	44 / 0		
B2, 4"	1018 / 0	304 / 0		
B3, 5-3/4"	826 / 0	200 / 0		
B4, 4-3/8"	260 / 84	44 / 0		

Lo	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	10-04-14	Тор	51	13				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	10-04-14	36-09-12	Тор	53	13				n\a
3	11(i57)	Conc. Pt. (lbs)	L	10-05-02	10-05-02	Тор	199	106				n\a

<b>Controls Summary</b>	Value	% Allowable	Duration	Case	Location
Pos. Moment	1138 ft-lbs	41.8%	100%	3	18-06-02
Neg. Moment	-1328 ft-lbs	48.7%	100%	5	26-08-04
End Reaction	304 lbs	27.0%	100%	2	36-09-12
Int. Reaction	1323 lbs	59.4%	100%	4	10-04-14
End Shear	280 lbs	19.0%	100%	2	36-05-06
Cont. Shear	551 lbs	37.4%	100%	4	10-06-14
Total Load Deflection	L/822 (0.238")	43.8%	n∖a	3	18-06-02
Live Load Deflection	L/978 (0.2")	49.1%	n\a	8	18-06-02
Total Neg. Defl.	L/999 (-0.038")	n\a	n∖a	3	06-05-10
Max Defl.	0.238"	23.8%	n∖a	3	18-06-02
Span / Depth	20.6				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	299 lbs	8.0%	26.6%	Unspecified
B2	Beam	4" x 2"	1323 lbs	40.6%	59.4%	Unspecified
B3	Beam	5-3/4" x 2"	1026 lbs	22.0%	40.6%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	304 lbs	8.2%	27.0%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8



# Foundation/Floor Joists/J2-16" O.C.(i903) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J2-16" O.C.(i903)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



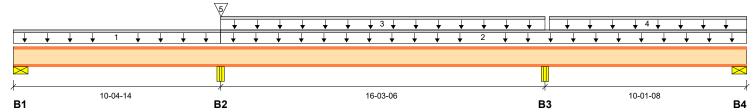
# Foundation\Floor Joists\J2-16" O.C.(i986) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Roof Live

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J2-16" O.C.(i986)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



Total Horizontal Product Length = 36-09-12

Snow

Wind

# Bearing Live Dead B1, 4-3/8" 265 / 81 46 / 0

200701	10 / 0
1046 / 0	298 / 0
801 / 0	193 / 0
243 / 84	40 / 0
	1046 / 0 801 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	10-04-14	Тор	53	13				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	10-04-14	36-09-12	Тор	27	7				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	10-04-14	26-08-04	Тор	27	7				n\a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	26-10-14	36-09-12	Тор	23	6				n\a
5	11(i57)	Conc. Pt. (lbs)	L	10-05-02	10-05-02	Тор	214	96				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1139 ft-lbs	41.8%	100%	3	18-06-02
Neg. Moment	-1341 ft-lbs	49.2%	100%	4	10-04-14
End Reaction	311 lbs	27.7%	100%	2	00-00-00
Int. Reaction	1344 lbs	60.4%	100%	4	10-04-14
End Shear	287 lbs	19.5%	100%	2	00-04-06
Cont. Shear	553 lbs	37.5%	100%	4	10-06-14
Total Load Deflection	L/821 (0.238")	43.8%	n∖a	3	18-06-02
Live Load Deflection	L/978 (0.2")	49.1%	n∖a	8	18-06-02
Total Neg. Defl.	L/999 (-0.038")	n\a	n∖a	3	06-05-10
Max Defl.	0.238"	23.8%	n∖a	3	18-06-02
Span / Depth	20.6				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	311 lbs	8.4%	27.7%	Unspecified
B2	Beam	4" x 2"	1344 lbs	41.3%	60.4%	Unspecified
B3	Beam	5-3/4" x 2"	994 lbs	21.3%	39.4%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	283 lbs	7.6%	25.2%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8



# Foundation/Floor Joists/J2-16" O.C.(i986) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J2-16" O.C.(i986)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8

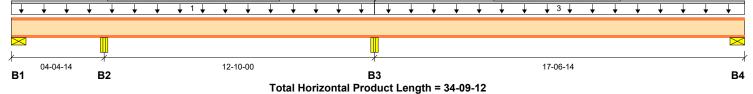


# Foundation\Floor Joists\J3-16" O.C.(i1029) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J3-16" O.C.(i1029)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit
5	7 <u>6</u>		8
		7/	



#### Reaction Summary (Down / Uplift) (lbs) Bearing Dead Wind **Roof Live** Live Snow B1, 4-3/8" 174 / 154 0 / 52 B2, 5-3/4" 637 / 11 345/0 B3, 5-3/4" 743/0 452 / 0 B4, 4-3/8" 256 / 19 121/0

Lo	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	17-02-14	Тор	53	13				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	04-06-14	12-08-14	Тор		27				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	17-02-14	34-09-12	Тор	33	8				n\a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	22-10-14	28-10-14	Тор		16				n\a
5	12(i59)	Conc. Pt. (lbs)	L	04-05-02	04-05-02	Тор		9				n∖a
6	30(i79)	Conc. Pt. (lbs)	L	12-11-02	12-11-02	Тор		76				n∖a
7	8(i53)	Conc. Pt. (lbs)	L	17-03-02	17-03-02	Тор		9				n∖a
8	43(i92)	Conc. Pt. (lbs)	L	23-00-10	23-00-10	Тор		40				n∖a
9	45(i90)	Conc. Pt. (lbs)	L	28-09-02	28-09-02	Тор		40				n\a

<b>Controls Summary</b>	Value	% Allowable	Duration	Case	Location
Pos. Moment	1461 ft-lbs	53.6%	100%	2	27-04-00
Neg. Moment	-1813 ft-lbs	66.5%	100%	5	17-02-14
End Reaction	376 lbs	33.5%	100%	2	34-09-12
Int. Reaction	1196 lbs	47.4%	100%	5	17-02-14
End Shear	361 lbs	24.5%	100%	2	34-05-06
Cont. Shear	617 lbs	41.8%	100%	5	17-00-00
Total Load Deflection	L/616 (0.337")	58.5%	n∖a	2	26-07-07
Live Load Deflection	L/952 (0.218")	50.4%	n∖a	7	26-05-05
Total Neg. Defl.	L/999 (-0.022")	n∖a	n∖a	2	14-09-04
Max Defl.	0.337"	33.7%	n∖a	2	26-07-07
Span / Depth	21.8				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	122 lbs	3.3%	10.9%	Unspecified
B1	Uplift		206 lbs			
B2	Beam	5-3/4" x 2"	982 lbs	21.0%	38.9%	Unspecified
B3	Beam	5-3/4" x 2"	1196 lbs	25.6%	47.4%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	376 lbs	10.1%	33.5%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8



# Foundation\Floor Joists\J3-16" O.C.(i1029) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit
Customer:	KC-Truss & Panel	Designer:	Don Happel
City, State, Zip:		Specifier:	
Address:		Description:	Foundation\Floor Joists\J3-16" O.C.(i1029)
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Build 8014			

#### Cautions

Uplift of -206 lbs found at bearing B1.

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



# Single 9-1/2" BCI® 5000s-1.8



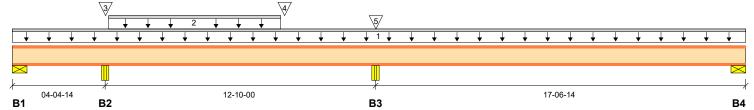
# Foundation\Floor Joists\J3-16" O.C.(i1031) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

**Roof Live** 

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J3-16" O.C.(i1031)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



Total Horizontal Product Length = 34-09-12

#### Reaction Summary (Down / Uplift) (lbs) Bearing Dead Wind Live Snow B1, 4-3/8" 207 / 154 0/67 B2, 5-3/4" 637 / 89 381/0 B3, 5-3/4" 374 / 0 986 / 0 B4, 4-3/8" 409 / 19 88 / 0

Load Summary						Live	Dead	Snow	Wind	Roof Live	ocs	
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	34-09-12	Тор	53	13				n∖a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	04-06-14	12-08-14	Тор		27				n∖a
3	12(i59)	Conc. Pt. (lbs)	L	04-05-02	04-05-02	Тор		9				n∖a
4	30(i79)	Conc. Pt. (lbs)	L	12-11-02	12-11-02	Тор		76				n∖a
5	8(i53)	Conc. Pt. (lbs)	L	17-03-02	17-03-02	Тор		9				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1705 ft-lbs	62.6%	100%	2	27-04-14
Neg. Moment	-2047 ft-lbs	75.1%	100%	5	17-02-14
End Reaction	497 lbs	44.2%	100%	2	34-09-12
Int. Reaction	1360 lbs	53.9%	100%	5	17-02-14
End Shear	473 lbs	32.0%	100%	2	34-05-06
Cont. Shear	678 lbs	46.0%	100%	5	17-05-12
Total Load Deflection	L/518 (0.4")	69.5%	n∖a	2	26-05-06
Live Load Deflection	L/596 (0.348")	80.6%	n∖a	7	26-05-06
Total Neg. Defl.	L/999 (-0.033")	n∖a	n∖a	2	14-04-06
Max Defl.	0.4"	40.0%	n∖a	2	26-05-06
Span / Depth	21.8				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	140 lbs	3.8%	12.4%	Unspecified
B1	Uplift		221 lbs			
B2	Beam	5-3/4" x 2"	1018 lbs	21.8%	40.3%	Unspecified
B3	Beam	5-3/4" x 2"	1360 lbs	29.1%	53.9%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	497 lbs	13.4%	44.2%	Unspecified

#### Cautions

Uplift of -221 lbs found at bearing B1.



# Single 9-1/2" BCI® 5000s-1.8

PASSED

# Foundation/Floor Joists/J3-16" O.C.(i1031) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

1)

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J3-16" O.C.(i1031
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



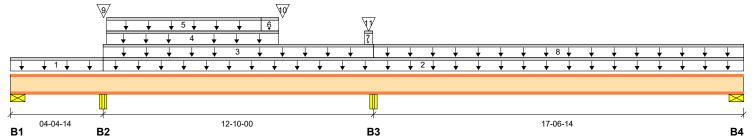
# Foundation\Floor Joists\J3-16" O.C.(i1033) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Roof Live

Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit
Customer:	KC-Truss & Panel	Designer:	Don Happel
City, State, Zip:		Specifier:	
Address:		Description:	Foundation\Floor Joists\J3-16" O.C.(i1033)
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Build 8014			



### Total Horizontal Product Length = 34-09-12

Snow

Wind

# Reaction Summary (Down / Uplift) (lbs)

Live	Dead
179 / 154	0 / 80
637 / 24	412 / 0
784 / 0	398 / 0
281 / 19	55 / 0
	179 / 154 637 / 24 784 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	04-04-14	Тор	53	13				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	04-04-14	34-09-12	Тор	27	7				n∖a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	04-04-14	17-02-14	Тор	27	7				n∖a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	04-06-14	12-08-14	Тор		13				n∖a
5	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	04-06-14	11-10-14	Тор		13				n∖a
6	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	11-10-14	12-08-14	Тор		13				n∖a
7	50(i97)	Unf. Lin. (lb/ft)	L	16-09-14	17-02-05	Тор		80				n∖a
8	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	17-02-14	34-09-12	Тор	10	3				n∖a
9	12(i59)	Conc. Pt. (lbs)	L	04-05-02	04-05-02	Тор		9				n∖a
10	30(i79)	Conc. Pt. (lbs)	L	12-11-02	12-11-02	Тор		98				n∖a
11	50(i97)	Conc. Pt. (lbs)	L	17-00-01	17-00-01	Тор		38				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1133 ft-lbs	41.6%	100%	2	27-04-14
Neg. Moment	-1609 ft-lbs	59.1%	100%	5	17-02-14
End Reaction	336 lbs	29.9%	100%	2	34-09-12
Int. Reaction	1182 lbs	46.8%	100%	5	17-02-14
End Shear	319 lbs	21.7%	100%	2	34-05-06
Cont. Shear	623 lbs	42.2%	100%	5	17-00-00
Total Load Deflection	L/792 (0.262")	45.5%	n∖a	2	26-08-04
Live Load Deflection	L/866 (0.239")	55.4%	n∖a	7	26-05-06
Total Neg. Defl.	L/999 (-0.038")	n∖a	n∖a	3	22-00-00
Max Defl.	0.262"	26.2%	n∖a	2	26-08-04
Span / Depth	21.8				



# Single 9-1/2" BCI® 5000s-1.8

PASSED

Foundation\Floor Joists\J3-16" O.C.(i1033) (Floor Joist) Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Job name: Address:	Lot 323 Park Ridge	File name: Description:	Lot 323 Park Ridge.mmdl Foundation\Floor Joists\J3-16" O.C.(i1033)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	99 lbs	2.7%	8.8%	Unspecified
B1	Uplift		234 lbs			
B2	Beam	5-3/4" x 2"	1050 lbs	22.5%	41.6%	Unspecified
B3	Beam	5-3/4" x 2"	1182 lbs	25.3%	46.8%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	336 lbs	9.0%	29.9%	Unspecified

### Cautions

Uplift of -234 lbs found at bearing B1.

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



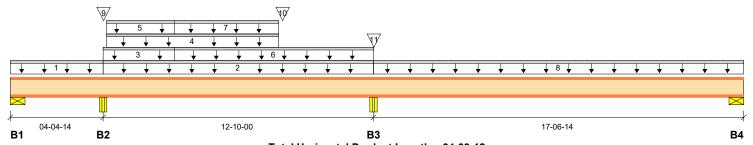
# Foundation\Floor Joists\J3-16" O.C.(i892) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Roof Live

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J3-16" O.C.(i892)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



### Total Horizontal Product Length = 34-09-12

Snow

Wind

# Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead
B1, 4-3/8"	175 / 107	0 / 38
B2, 5-3/4"	451 / 121	251 / 0
B3, 5-3/4"	881 / 0	312 / 0
B4, 4-3/8"	409 / 13	92 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	04-04-14	Тор	39	10				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	04-04-14	17-02-14	Тор	27	7				n∖a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	04-04-14	07-09-06	Тор	12	3				n∖a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	04-06-14	12-08-14	Тор		13				n∖a
5	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	04-06-14	07-09-06	Тор		5				n∖a
6	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	07-09-06	17-02-14	Тор	10	3				n∖a
7	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	07-09-06	12-08-14	Тор		4				n∖a
8	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	17-02-14	34-09-12	Тор	53	13				n∖a
9	12(i59)	Conc. Pt. (lbs)	L	04-05-02	04-05-02	Тор		9				n∖a
10	30(i79)	Conc. Pt. (lbs)	L	12-11-02	12-11-02	Тор		57				n∖a
11	8(i53)	Conc. Pt. (lbs)	L	17-03-02	17-03-02	Тор		9				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1735 ft-lbs	63.7%	100%	2	27-04-14
Neg. Moment	-1869 ft-lbs	68.6%	100%	5	17-02-14
End Reaction	501 lbs	44.6%	100%	2	34-09-12
Int. Reaction	1193 lbs	47.2%	100%	5	17-02-14
End Shear	477 lbs	32.3%	100%	2	34-05-06
Cont. Shear	668 lbs	45.3%	100%	5	17-05-12
Total Load Deflection	L/505 (0.41")	71.3%	n∖a	2	26-06-13
Live Load Deflection	L/596 (0.348")	80.5%	n∖a	7	26-05-06
Total Neg. Defl.	L/999 (-0.048")	n\a	n∖a	2	13-09-00
Max Defl.	0.41"	41.0%	n∖a	2	26-06-13
Span / Depth	21.8				



# Single 9-1/2" BCI® 5000s-1.8

PASSED

# Foundation\Floor Joists\J3-16" O.C.(i892) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J3-16" O.C.(i892)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	136 lbs	3.7%	12.1%	Unspecified
B1	Uplift		145 lbs			
B2	Beam	5-3/4" x 2"	703 lbs	15.0%	27.8%	Unspecified
B3	Beam	5-3/4" x 2"	1193 lbs	25.5%	47.2%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	501 lbs	13.5%	44.6%	Unspecified

### Cautions

Uplift of -145 lbs found at bearing B1.

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



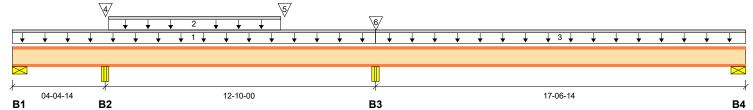
# Foundation\Floor Joists\J3-16" O.C.(i980) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

**Roof Live** 

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J3-16" O.C.(i980)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



Total Horizontal Product Length = 34-09-12

# Beaction Summary (Down / Uplift) (lbs) Bearing Live Dead Snow Wind B1, 4-3/8" 179 / 154 0 / 73 362, 5-3/4" 396 / 0 332 / 0 332 / 0

57/0

281 / 19

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	17-02-14	Тор	53	13				n∖a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	04-06-14	12-08-14	Тор		27				n∖a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	17-02-14	34-09-12	Тор	37	9				n∖a
4	12(i59)	Conc. Pt. (lbs)	L	04-05-02	04-05-02	Тор		9				n∖a
5	30(i79)	Conc. Pt. (lbs)	L	12-11-02	12-11-02	Тор		76				n∖a
6	8(i53)	Conc. Pt. (lbs)	L	17-03-02	17-03-02	Тор		15				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1150 ft-lbs	42.2%	100%	2	27-04-14
Neg. Moment	-1595 ft-lbs	58.5%	100%	5	17-02-14
End Reaction	339 lbs	30.1%	100%	2	34-09-12
Int. Reaction	1116 lbs	44.2%	100%	5	17-02-14
End Shear	322 lbs	21.8%	100%	2	34-05-06
Cont. Shear	605 lbs	41.0%	100%	4	04-07-12
Total Load Deflection	L/778 (0.267")	46.3%	n\a	2	26-07-14
Live Load Deflection	L/866 (0.239")	55.4%	n\a	7	26-05-10
Total Neg. Defl.	L/999 (-0.034")	n∖a	n\a	3	21-08-15
Max Defl.	0.267"	26.7%	n\a	2	26-07-14
Span / Depth	21.8				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	106 lbs	2.9%	9.4%	Unspecified
B1	Uplift		227 lbs			
B2	Beam	5-3/4" x 2"	1034 lbs	22.1%	40.9%	Unspecified
B3	Beam	5-3/4" x 2"	1116 lbs	23.9%	44.2%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	339 lbs	9.1%	30.1%	Unspecified

### Cautions

B4, 4-3/8"

Uplift of -227 lbs found at bearing B1.





# Foundation/Floor Joists/J3-16" O.C.(i980) (Floor Joist)

Dry | 3 spans | No cant | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

BC CALC® Mer	nber Report	Dry   3 spans   No ca	ant.   16 OCS   Repetitive	Glued & nailed	December 22, 20
Build 8014					
Job name:	Lot 323 Park	Ridge	File name:	Lot 323 Park Ridge	.mmdl
Address:			Description:	Foundation\Floor Jo	oists\J3-16" O.C.(i980)
City, State, Zip:			Specifier:		
Customer:	KC-Truss & P	anel	Designer:	Don Happel	
Code reports:	ESR-1336		Company:	Boise Cascade BM	D - Lee's Summit

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



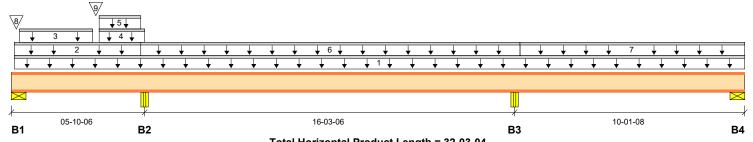
December 22, 2021 10:31:03

Roof Live

# Foundation\Floor Joists\J4-16" O.C.(i1000) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

Build 8014 Job name: Lot 323 Park Ridge File name: Lot 323 Park Ridge.mmdl Description: Foundation\Floor Joists\J4-16" O.C.(i1000) Address: City, State, Zip: Specifier: Customer: **KC-Truss & Panel** Designer: Don Happel Boise Cascade BMD - Lee's Summit Code reports: ESR-1336 Company:



### Total Horizontal Product Length = 32-03-04

Snow

Wind

# Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead
B1, 4-3/8"	269 / 108	203 / 0
B2, 4"	544 / 0	290 / 0
B3, 5-3/4"	617 / 0	150 / 0
B4, 4-3/8"	254 / 50	52 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	32-03-04	Тор	27	7				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	05-08-06	Тор	27	7				n∖a
3	27(i74)	Unf. Lin. (lb/ft)	L	00-04-06	03-06-14	Тор		57				n∖a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	03-10-06	05-10-06	Тор		13				n\a
5	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	03-10-06	05-08-06	Тор		13				n∖a
6	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	05-08-06	22-04-10	Тор	7	2				n∖a
7	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	22-04-10	32-03-04	Тор	27	7				n∖a
8	4(i51)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	106	36				n∖a
9	24(i71)	Conc. Pt. (lbs)	L	03-08-10	03-08-10	Тор		76				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	658 ft-lbs	24.1%	100%	3	14-04-03
Neg. Moment	-915 ft-lbs	33.6%	100%	5	22-01-12
End Reaction	471 lbs	41.9%	100%	2	00-00-00
Int. Reaction	835 lbs	37.5%	100%	4	05-10-06
End Shear	314 lbs	21.3%	100%	2	00-04-06
Cont. Shear	470 lbs	31.9%	100%	4	05-08-06
Total Load Deflection	L/1457 (0.134")	24.7%	n\a	3	14-01-00
Live Load Deflection	L/999 (0.116")	n∖a	n∖a	8	14-01-00
Total Neg. Defl.	L/999 (-0.017")	n∖a	n∖a	3	25-07-14
Max Defl.	0.134"	13.4%	n∖a	3	14-01-00
Span / Depth	20.6				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	471 lbs	12.7%	41.9%	Unspecified
B2	Beam	4" x 2"	835 lbs	25.6%	37.5%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8



Foundation\Floor Joists\J4-16" O.C.(i1000) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014 Job name: Address:	Lot 323 Park Ridge	File name: Description:	Lot 323 Park Ridge.mmdl Foundation\Floor Joists\J4-16" O.C.(i1000)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B3	Beam	5-3/4" x 2"	767 lbs	16.5%	30.4%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	305 lbs	8.2%	27.2%	Unspecified

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



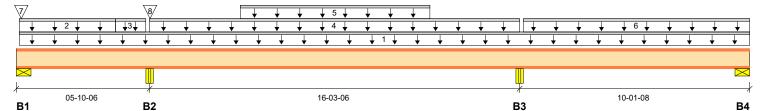
December 22, 2021 10:31:03

Roof Live

# Foundation\Floor Joists\J4-16" O.C.(i1011) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J4-16" O.C.(i1011)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



Total Horizontal Product Length = 32-03-04

Snow

Wind

# Reaction Summary (Down / Uplift) (lbs)BearingLiveDeadB1 4-3/8"219 / 1090 / 18

B1, 4-3/8"	219 / 109	0 / 18
B2, 4"	655 / 0	284 / 0
B3, 5-3/4"	524 / 0	210/0
B4, 4-3/8"	174 / 50	15 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	32-03-04	Тор	27	7				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	04-04-06	Тор	19	5				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	04-04-06	05-08-06	Тор	37	9				n\a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	05-10-06	22-01-12	Тор	7	2				n\a
5	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-10-06	18-02-06	Тор		16				n\a
6	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	22-03-13	32-03-04	Тор	10	3				n\a
7	4(i51)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	81	11				n\a
8	9(i56)	Conc. Pt. (lbs)	L	05-10-10	05-10-10	Тор	112	50				n\a

<b>Controls Summary</b>	Value	% Allowable	Duration	Case	Location
Pos. Moment	896 ft-lbs	32.9%	100%	3	14-00-06
Neg. Moment	-1003 ft-lbs	36.8%	100%	4	05-10-06
End Reaction	202 lbs	17.9%	100%	2	00-00-00
Int. Reaction	939 lbs	42.2%	100%	4	05-10-06
End Shear	172 lbs	11.7%	100%	2	31-10-14
Cont. Shear	410 lbs	27.8%	100%	4	06-00-06
Total Load Deflection	L/1072 (0.182")	33.6%	n∖a	3	14-00-06
Live Load Deflection	L/999 (0.116")	n∖a	n∖a	8	14-00-06
Total Neg. Defl.	L/999 (-0.029")	n∖a	n∖a	3	26-00-06
Max Defl.	0.182"	18.2%	n∖a	3	14-00-06
Span / Depth	20.6				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	202 lbs	5.4%	17.9%	Unspecified
B1	Uplift		126 lbs			
B2	Beam	4" x 2"	939 lbs	28.8%	42.2%	Unspecified
B3	Beam	5-3/4" x 2"	735 lbs	15.8%	29.1%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8

PASSED

December 22, 2021 10:31:03

Foundation\Floor Joists\J4-16" O.C.(i1011) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J4-16" O.C.(i1011)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B4	Wall/Plate	4-3/8" x 2"	189 lbs	5.1%	16.8%	Unspecified

### Cautions

Uplift of -126 lbs found at bearing B1.

### Notes

Design meets User specified (L/360) Total load deflection criteria.
Design meets User specified (L/480) Live load deflection criteria.
Design meets arbitrary (1") Maximum Total load deflection criteria.
Design meets arbitrary (0.75") Maximum live load deflection criteria.
BC CALC® analysis is based on IBC 2009.
Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.
Design based on Dry Service Condition.
Calculations assume member is fully braced.

### Disclosure

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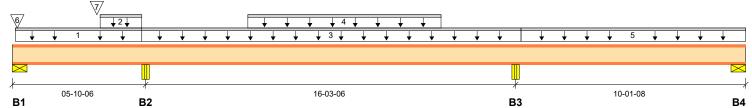




# Foundation\Floor Joists\J4-16" O.C.(i1016) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

BC CALC® Member Report		Dry   3 spans   No cant.   16 OCS	y   3 spans   No cant.   16 OCS   Repetitive   Glued & nailed		
Build 8014					
Job name:	Lot 323 Park Rid	ge	File name:	Lot 323 Park Ridge.mm	dl
Address:			Description:	Foundation\Floor Joists\	J4-16" O.C.(i1016)
City, State, Zip:			Specifier:		
Customer:	KC-Truss & Pane	el	Designer:	Don Happel	
Code reports:	ESR-1336		Company:	Boise Cascade BMD - L	ee's Summit



Total Horizontal Product Length = 32-03-04

#### Reaction Summary (Down / Uplift) (lbs) Bearing Dead Wind Roof Live Live Snow B1, 4-3/8" 265 / 130 26 / 0 B2, 4" 624 / 0 337 / 0 B3, 5-3/4" 683 / 0 278/0 B4, 4-3/8" 254 / 60 27/0

Loa	Load Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	05-08-06	Тор	53	13				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	03-10-06	05-08-06	Тор		8				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	05-08-06	22-04-10	Тор	40	10				n\a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	10-04-06	18-10-06	Тор		20				n\a
5	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	22-04-10	32-03-04	Тор	53	13				n\a
6	4(i51)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	102	35				n\a
7	24(i71)	Conc. Pt. (lbs)	L	03-08-10	03-08-10	Тор		76				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1080 ft-lbs	39.6%	100%	3	14-04-03
Neg. Moment	-1258 ft-lbs	46.2%	100%	5	22-01-12
End Reaction	291 lbs	25.9%	100%	2	00-00-00
Int. Reaction	961 lbs	43.2%	100%	4	05-10-06
End Shear	256 lbs	17.4%	100%	2	31-10-14
Cont. Shear	497 lbs	33.7%	100%	5	21-10-14
Total Load Deflection	L/893 (0.219")	40.3%	n∖a	3	14-01-00
Live Load Deflection	L/1402 (0.139")	34.2%	n\a	8	14-01-00
Total Neg. Defl.	L/999 (-0.033")	n∖a	n∖a	3	25-10-14
Max Defl.	0.219"	21.9%	n∖a	3	14-01-00
Span / Depth	20.6				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	291 lbs	7.8%	25.9%	Unspecified
B1	Uplift		104 lbs			
B2	Beam	4" x 2"	961 lbs	29.5%	43.2%	Unspecified
B3	Beam	5-3/4" x 2"	961 lbs	20.6%	38.0%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	281 lbs	7.5%	25.0%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8



# Foundation/Floor Joists/J4-16" O.C.(i1016) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J4-16" O.C.(i1016)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

### Cautions

Uplift of -104 lbs found at bearing B1.

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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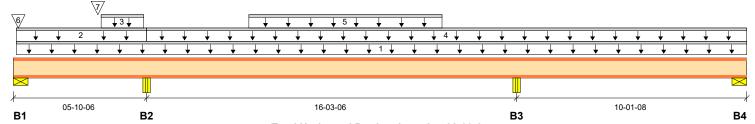




# Foundation\Floor Joists\J4-16" O.C.(i904) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

BC CALC® Membe	er Report	Dry   3 spans   No cant.   16 O0	CS   Repetitive	Glued & nailed	December 22, 2021 10:31:03
Build 8014					
Job name:	Lot 323 Park R	idge	File name:	Lot 323 Park Ridge.mn	ndl
Address:			Description:	Foundation\Floor Joists	s\J4-16" O.C.(i904)
City, State, Zip:			Specifier:		
Customer:	KC-Truss & Pa	nel	Designer:	Don Happel	
Code reports:	ESR-1336		Company:	Boise Cascade BMD -	Lee's Summit



Total Horizontal Product Length = 32-03-04

#### Reaction Summary (Down / Uplift) (lbs) Bearing Roof Live Live Dead Snow Wind B1, 4-3/8" 417 / 174 155 / 0 B2, 4" 791/0 342 / 0 B3, 5-3/4" 811/0 207 / 0 B4, 4-3/8" 254 / 80 43/0

Loa	ad Summary							Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	32-03-04	Тор	27	7				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	05-10-06	Тор	30	8				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	03-10-06	05-08-14	Тор		57				n\a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	05-10-06	32-03-04	Тор	27	7				n\a
5	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	10-04-06	18-10-06	Тор		2				n\a
6	4(i51)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	245	118				n\a
7	24(i71)	Conc. Pt. (lbs)	L	03-08-10	03-08-10	Тор		73				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1102 ft-lbs	40.4%	100%	3	14-01-00
Neg. Moment	-1321 ft-lbs	48.5%	100%	4	05-10-06
End Reaction	571 lbs	50.8%	100%	2	00-00-00
Int. Reaction	1133 lbs	50.9%	100%	4	05-10-06
End Shear	272 lbs	18.4%	100%	2	31-10-14
Cont. Shear	557 lbs	37.7%	100%	4	06-00-06
Total Load Deflection	L/862 (0.227")	41.8%	n∖a	3	14-01-00
Live Load Deflection	L/1052 (0.186")	45.6%	n\a	8	14-01-00
Total Neg. Defl.	L/999 (-0.035")	n∖a	n∖a	3	25-10-14
Max Defl.	0.227"	22.7%	n∖a	3	14-01-00
Span / Depth	20.6				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	571 lbs	15.4%	50.8%	Unspecified
B2	Beam	4" x 2"	1133 lbs	34.8%	50.9%	Unspecified
B3	Beam	5-3/4" x 2"	1019 lbs	21.9%	40.4%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	296 lbs	8.0%	26.3%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8

PASSED

# Foundation\Floor Joists\J4-16" O.C.(i904) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J4-16" O.C.(i904)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

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# Single 9-1/2" BCI® 5000s-1.8

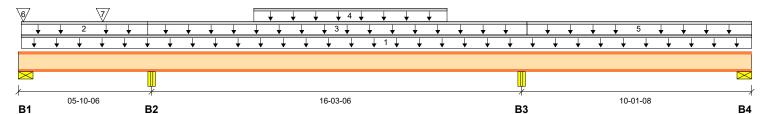


December 22, 2021 10:31:03

# Foundation/Floor Joists/J4-16" O.C.(i905) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J4-16" O.C.(i905)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



Total Horizontal Product Length = 32-03-04

#### Reaction Summary (Down / Uplift) (lbs) Bearing Dead Wind Roof Live Live Snow B1, 4-3/8" 275 / 109 50 / 0 B2, 4" 547/0 252/0 B3, 5-3/4" 619/0 215/0 B4, 4-3/8" 254 / 50 39 / 0

Loa	Id Summary							Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	32-03-04	Тор	27	7				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	05-08-06	Тор	27	7				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	05-08-06	22-04-10	Тор	7	2				n\a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	10-04-06	18-10-06	Тор		12				n\a
5	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	22-04-10	32-03-04	Тор	27	7				n\a
6	4(i51)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	112	37				n∖a
7	24(i71)	Conc. Pt. (lbs)	L	03-08-10	03-08-10	Тор		76				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	826 ft-lbs	30.3%	100%	3	14-01-00
Neg. Moment	-1048 ft-lbs	38.4%	100%	5	22-01-12
End Reaction	325 lbs	28.9%	100%	2	00-00-00
Int. Reaction	799 lbs	35.9%	100%	4	05-10-06
End Shear	268 lbs	18.2%	100%	2	31-10-14
Cont. Shear	418 lbs	28.4%	100%	5	22-04-10
Total Load Deflection	L/1164 (0.168")	30.9%	n∖a	3	14-01-00
Live Load Deflection	L/999 (0.117")	n∖a	n∖a	8	14-01-00
Total Neg. Defl.	L/999 (-0.023")	n∖a	n∖a	3	25-09-06
Max Defl.	0.168"	16.8%	n∖a	3	14-01-00
Span / Depth	20.6				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	325 lbs	8.7%	28.9%	Unspecified
B2	Beam	4" x 2"	799 lbs	24.6%	35.9%	Unspecified
B3	Beam	5-3/4" x 2"	835 lbs	17.9%	33.1%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	292 lbs	7.9%	26.0%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8



# Foundation/Floor Joists/J4-16" O.C.(i905) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J4-16" O.C.(i905)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

### Cautions

Uplift of -59 lbs found at bearing B1.

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



Build 8014 Job name:

# Single 9-1/2" BCI® 5000s-1.8



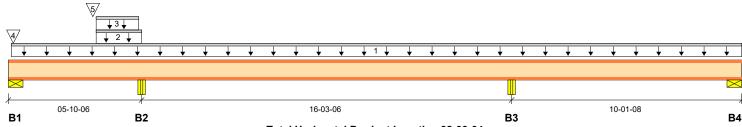
# Foundation\Floor Joists\J4-16" O.C.(i908) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

BC CALC® Member Report December 22, 2021 10:31:03 Lot 323 Park Ridge Lot 323 Park Ridge.mmdl File name: Description. Foundation\Floor Joists\J4-16" O.C.(i908)

Address:		Description:	Fo
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Do
Code reports:	ESR-1336	Company:	Во





Total Horizontal Product Length = 32-03-04

#### Reaction Summary (Down / Uplift) (lbs) Bearing Dead Wind Roof Live Live Snow B1, 4-3/8" 218 / 174 59 / 0 B2, 4" 781/0 328 / 0 B3, 5-3/4" 811/0 197 / 0 B4, 4-3/8" 254 / 80 45/0

Lo	oad Summary							Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	32-03-04	Тор	53	13				n∖a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	03-10-06	05-10-06	Тор		17				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	03-10-06	05-08-14	Тор		43				n\a
4	4(i51)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	55	23				n∖a
5	24(i71)	Conc. Pt. (lbs)	L	03-08-10	03-08-10	Тор		64				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1077 ft-lbs	39.5%	100%	3	14-02-05
Neg. Moment	-1293 ft-lbs	47.4%	100%	4	05-10-06
End Reaction	298 lbs	26.5%	100%	2	32-03-04
Int. Reaction	1110 lbs	49.9%	100%	4	05-10-06
End Shear	274 lbs	18.6%	100%	2	31-10-14
Cont. Shear	549 lbs	37.2%	100%	4	06-00-06
Total Load Deflection	L/881 (0.222")	40.9%	n\a	3	14-02-05
Live Load Deflection	L/1052 (0.186")	45.6%	n\a	8	14-02-05
Total Neg. Defl.	L/999 (-0.034")	n∖a	n∖a	3	25-10-14
Max Defl.	0.222"	22.2%	n∖a	3	14-02-05
Span / Depth	20.6				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	277 lbs	7.4%	24.6%	Unspecified
B1	Uplift		114 lbs			
B2	Beam	4" x 2"	1110 lbs	34.1%	49.9%	Unspecified
B3	Beam	5-3/4" x 2"	1009 lbs	21.7%	39.9%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	298 lbs	8.0%	26.5%	Unspecified

### Cautions

Uplift of -114 lbs found at bearing B1.



PASSED

# Foundation/Floor Joists/J4-16" O.C.(i908) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

BC CALC® Member Report

December 22, 2021 10:31:03

Job name: Address:	Lot 323 Park Ridge		Lot 323 Park Ridge.mmdl Foundation\Floor Joists\J4-16" O.C.(i908)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

### Notes

Build 8014

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

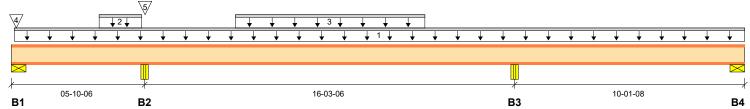




# Foundation\Floor Joists\J4-16" O.C.(i909) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

BC CALC® Member Report December 22, 2021 10:31:03 Build 8014 Job name: Lot 323 Park Ridge File name: Lot 323 Park Ridge.mmdl Description: Foundation\Floor Joists\J4-16" O.C.(i909) Address: City, State, Zip: Specifier: Customer: **KC-Truss & Panel** Designer: Don Happel Code reports: ESR-1336 Company: Boise Cascade BMD - Lee's Summit



Total Horizontal Product Length = 32-03-04

#### Reaction Summary (Down / Uplift) (lbs) Bearing Dead Snow Wind **Roof Live** Live B1, 4-3/8" 261 / 174 19/0 B2, 4" 954 / 0 365 / 0 210/0 B3, 5-3/4" 811/0 B4, 4-3/8" 254 / 80 42/0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	32-03-04	Тор	53	13				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	03-10-06	05-08-14	Тор		13				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-10-06	18-02-06	Тор		2				n\a
4	4(i51)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	98	22				n\a
5	9(i56)	Conc. Pt. (lbs)	L	05-10-10	05-10-10	Тор	173	145				n∖a

<b>Controls Summary</b>	Value	% Allowable	Duration	Case	Location
Pos. Moment	1115 ft-lbs	40.9%	100%	3	14-01-15
Neg. Moment	-1312 ft-lbs	48.1%	100%	5	22-01-12
End Reaction	295 lbs	26.2%	100%	2	32-03-04
Int. Reaction	1320 lbs	59.3%	100%	4	05-10-06
End Shear	271 lbs	18.4%	100%	2	31-10-14
Cont. Shear	554 lbs	37.6%	100%	4	06-00-06
Total Load Deflection	L/850 (0.23")	42.4%	n∖a	3	14-01-15
Live Load Deflection	L/1052 (0.186")	45.6%	n∖a	8	14-01-15
Total Neg. Defl.	L/999 (-0.036")	n∖a	n∖a	3	26-00-06
Max Defl.	0.23"	23.0%	n∖a	3	14-01-15
Span / Depth	20.6				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	280 lbs	7.5%	24.8%	Unspecified
B1	Uplift		155 lbs			
B2	Beam	4" x 2"	1320 lbs	40.5%	59.3%	Unspecified
B3	Beam	5-3/4" x 2"	1022 lbs	21.9%	40.5%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	295 lbs	7.9%	26.2%	Unspecified

### Cautions

Uplift of -155 lbs found at bearing B1.



PASSED

December 22, 2021 10:31:03

# Foundation/Floor Joists/J4-16" O.C.(i909) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

BC CALC® Member Report Dry | Build 8014 Job name: Lot 323 Park Ridge Address: City, State, Zip: Customer: KC-Truss & Panel

File name:Lot 323 Park Ridge.mmdlDescription:Foundation\Floor Joists\J4-16" O.C.(i909)Specifier:Don Happel

Company: Boise Cascade BMD - Lee's Summit

### Notes

Code reports:

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

ESR-1336

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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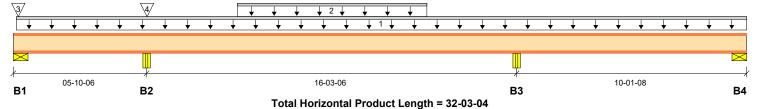




# Foundation\Floor Joists\J4-16" O.C.(i910) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

C CALC® Member Repo	Dry   3 spans   N	lo cant.   16 OCS   Repetitive	Glued & nailed	December 22, 2021 10:31:03	
uild 8014					
ob name: Lot 3	ark Ridge	File name:	Lot 323 Park Ridge.mmdl		
ddress:		Description:	Foundation\Floor Jo	oists\J4-16" O.C.(i910)	
ity, State, Zip:		Specifier:			
ustomer: KC-1	& Panel	Designer:	Don Happel		
ode reports: ESR	6	Company:	Boise Cascade BM	ID - Lee's Summit	
ddress: ity, State, Zip: ustomer: KC-T	& Panel	Description: Specifier: Designer:	Foundation\Floor Jo	oists\J4-16" O.C.(i910)	



# Reaction Summary (Down / Unlift) (lbs)

Reaction Summary (Down / Opint) (IDS)									
Bearing	Live	Dead	Snow	Wind	Roof Live				
B1, 4-3/8"	260 / 174	0 / 41							
B2, 4"	894 / 0	378 / 0							
B3, 5-3/4"	811/0	311/0							
B4, 4-3/8"	254 / 80	21/0							

Lo	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	32-03-04	Тор	53	13				n∖a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-10-06	18-02-06	Тор		22				n\a
3 4	4(i51) 9(i56)	Conc. Pt. (lbs) Conc. Pt. (lbs)	L L	00-02-10 05-10-10	00-02-10 05-10-10		97 113	11 50				n\a n\a

<b>Controls Summary</b>	Value	% Allowable	Duration	Case	Location
Pos. Moment	1385 ft-lbs	50.8%	100%	3	14-00-06
Neg. Moment	-1526 ft-lbs	56.0%	100%	4	05-10-06
End Reaction	275 lbs	24.4%	100%	2	32-03-04
Int. Reaction	1272 lbs	57.1%	100%	4	05-10-06
End Shear	250 lbs	17.0%	100%	2	31-10-14
Cont. Shear	638 lbs	43.3%	100%	4	06-00-06
Total Load Deflection	L/692 (0.282")	52.0%	n\a	3	14-00-06
Live Load Deflection	L/1052 (0.186")	45.6%	n\a	8	14-00-06
Total Neg. Defl.	L/999 (-0.046")	n∖a	n∖a	3	26-00-06
Max Defl.	0.282"	28.2%	n\a	3	14-00-06
Span / Depth	20.6				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	219 lbs	5.9%	19.5%	Unspecified
B1	Uplift		214 lbs			
B2	Beam	4" x 2"	1272 lbs	39.1%	57.1%	Unspecified
B3	Beam	5-3/4" x 2"	1122 lbs	24.1%	44.4%	Unspecified
B4	Wall/Plate	4-3/8" x 2"	275 lbs	7.4%	24.4%	Unspecified

### Cautions

Uplift of -214 lbs found at bearing B1.

Uplift of -59 lbs found at bearing B4.



PASSED

# Foundation/Floor Joists/J4-16" O.C.(i910) (Floor Joist)

Dry | 3 spans | No cant, | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

BC CALC <sup>®</sup> Member Report		Dry   3 spans   No	Dry   3 spans   No cant.   16 OCS   Repetitive   Glued & nailed		
Build 8014					
Job name:	Lot 323 Park R	idge	File name:	Lot 323 Park Ridge	.mmdl
Address:			Description:	Foundation\Floor J	oists\J4-16" O.C.(i910)
City, State, Zip:			Specifier:		
Customer:	KC-Truss & Pa	nel	Designer:	Don Happel	
Code reports:	ESR-1336		Company:	Boise Cascade BM	D - Lee's Summit

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



# Foundation\Floor Joists\J5-16" O.C.(i1046) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

**Roof Live** 

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J5-16" O.C.(i1046)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

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### Reaction Summary (Down / Uplift) (lbs)

		(				
Bearing	Live	Dead	Snow	Wind		
B1, 2-7/8"	188 / 138	13 / 0				
B2, 5-3/4"	960 / 0	270 / 0				
B3, 4-3/8"	404 / 9	99 / 0				
	Bearing B1, 2-7/8" B2, 5-3/4"	Bearing         Live           B1, 2-7/8"         188 / 138           B2, 5-3/4"         960 / 0	B1, 2-7/8"         188 / 138         13 / 0           B2, 5-3/4"         960 / 0         270 / 0	Bearing         Live         Dead         Snow           B1, 2-7/8"         188 / 138         13 / 0           B2, 5-3/4"         960 / 0         270 / 0		

Loa	ad Summary	Live	Dead	Snow	Wind	Roof Live	OCS					
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	09-02-14	Тор	44	11				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-02-14	26-09-12	Тор	53	13				n∖a
3	8(i53)	Conc. Pt. (lbs)	L	09-03-02	09-03-02	Тор	68	47				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1751 ft-lbs	64.3%	100%	3	19-02-00
Neg. Moment	-1744 ft-lbs	64.0%	100%	1	09-02-14
End Reaction	503 lbs	44.7%	100%	3	26-09-12
Int. Reaction	1230 lbs	48.7%	100%	1	09-02-14
End Shear	479 lbs	32.5%	100%	3	26-05-06
Cont. Shear	661 lbs	44.8%	100%	1	09-05-12
Total Load Deflection	L/499 (0.416")	72.2%	n\a	3	18-05-05
Live Load Deflection	L/616 (0.337")	78.0%	n\a	6	18-05-05
Total Neg. Defl.	L/999 (-0.056")	n∖a	n\a	3	05-06-03
Max Defl.	0.416"	41.6%	n\a	3	18-05-05
Span / Depth	21.8				

Bea	ring Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material	
B1	Wall/Plate	2-7/8" x 2"	201 lbs	8.2%	18.8%	Unspecified	
B1	Uplift		125 lbs				
B2	Beam	5-3/4" x 2"	1230 lbs	26.3%	48.7%	Unspecified	
B3	Wall/Plate	4-3/8" x 2"	503 lbs	13.5%	44.7%	Unspecified	

# Cautions

Uplift of -125 lbs found at bearing B1.



# Single 9-1/2" BCI® 5000s-1.8

PASSED

# Foundation/Floor Joists/J5-16" O.C.(i1046) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J5-16" O.C.(i1046)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



# Foundation/Floor Joists/J5-16" O.C.(i894) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J5-16" O.C.(i894)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

0 B1	09-02-14	B2				17-06-14					B3
			orizontal Pr	oduct Length	= 26-09-1	2					
Reaction Summar	ry (Down / Uplift)	(lbs)									
Bearing	Live	Dead	\$	Snow	v	Vind		Roo	f Live		
81, 2-7/8"	231 / 138	23 / 0									
32, 5-3/4"	943 / 0	236 / 0									
B3, 4-3/8"	404 / 10	98 / 0									
Load Summary						Live	Dead	Snow	Wind	Roof Live	ос
Tag Description	Load Type	Ref	. Start	End	Loc.	100%	90%	115%	160%	125%	
l FC1 Floor Deckin View Fill)		b/ft) L	00-00-00	) 26-09-12	Тор	53	13				n∖
Controls Summar	' <b>Y</b> Value	% Allov	vable	Duration	Case	Loca	tion				
Pos. Moment	1748 ft-lbs	64.1%		100%	3	19-0	2-00				
Neg. Moment	-1786 ft-lbs	65.5%		100%	1	09-0	2-14				
End Reaction	503 lbs	44.7%		100%	3	26-0	9-12				
nt. Reaction	1178 lbs	46.7%		100%	1	09-0	2-14				
End Shear	479 lbs	32.4%		100%	3	26-0	5-06				
							- 10				
	663 lbs	45.0%		100%	1	09-0	5-12				
Cont. Shear	663 lbs L/500 (0.414")	45.0% 72.0%		100% n∖a	1 3	09-0 18-0	-				
Cont. Shear Fotal Load Deflection							5-05				
Cont. Shear Fotal Load Deflection Live Load Deflection	L/500 (0.414")	72.0%		n∖a	3	18-0	5-05 5-05				
Cont. Shear Fotal Load Deflection Live Load Deflection Fotal Neg. Defl.	L/500 (0.414") L/616 (0.337")	72.0% 78.0%		n∖a n∖a	3 6	18-0 18-0	5-05 5-05 6-03				
Cont. Shear Fotal Load Deflection Live Load Deflection Fotal Neg. Defl. Max Defl.	L/500 (0.414") L/616 (0.337") L/999 (-0.054")	72.0% 78.0% n∖a		n\a n\a n\a	3 6 3	18-0 18-0 05-0	5-05 5-05 6-03				
Cont. Shear Total Load Deflection Live Load Deflection Total Neg. Defl. Max Defl. Span / Depth Bearing Supports	L/500 (0.414") L/616 (0.337") L/999 (-0.054") 0.414" 21.8	72.0% 78.0% n∖a		n\a n\a n\a	3 6 3	18-0 18-0 05-0 18-0	5-05 5-05 6-03				

B1	Wall/Plate	2-7/8" x 2"	255 lbs	10.4%	23.8%	Unspecified	
B1	Uplift		114 lbs				
B2	Beam	5-3/4" x 2"	1178 lbs	25.2%	46.7%	Unspecified	
B3	Wall/Plate	4-3/8" x 2"	503 lbs	13.5%	44.7%	Unspecified	

### Cautions

Uplift of -114 lbs found at bearing B1.

### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. BC CALC® analysis is based on IBC 2009. Composite El value based on 3/4" thick OSB sheathing glued and nailed to member. Design based on Dry Service Condition. Calculations assume member is fully braced.

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# Single 9-1/2" BCI® 5000s-1.8



# Foundation\Floor Joists\J5-16" O.C.(i894) - 01 (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J5-16" O.C.(i894)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

			Ų											
<i>к</i> В1	09-02-14		B2						17-06-14					B3
21				otal H	orizontal	Product I	Length	= 26-09	-12					20
Reaction Sum	nary (Do	wn / Uplift	) (lbs)											
Bearing	Live		Dead			Snow			Wind		Roc	of Live		
B1, 2-7/8"	231 /		23/0											
B2, 5-3/4"			236 / 0											
B3, 4-3/8"	404 /	10	98 / 0	)										
Load Summary	/								Live	Dead	Snow	Wind	Roof Live	ocs
Tag Description		Load Type	•	Ref.	Star	t E	Ind	Loc.	100%	90%	115%	160%	125%	
1 FC1 Floor De View Fill)	cking (Plan	Unf. Lin. (	lb/ft)	L	00-00-	00 26-0	09-12	Тор	53	13				n\a
Controls Sumr	n <b>ary</b> va	lue	%	Allow	able	Duratio	on	Cas	e Loca	ation				
Pos. Moment		48 ft-lbs	-	4.1%		100%		3		)2-00				
Neg. Moment		786 ft-Ibs		5.5%		100%		1		)2-14				
End Reaction	50	3 lbs		4.7%		100%		3	26-0	9-12				
Int. Reaction		78 lbs		5.7%		100%		1		)2-14				
End Shear		9 lbs		2.4%		100%		3		)5-06				
Cont. Shear		3 lbs		5.0%		100%		1		)5-12				
Total Load Deflection		500 (0.414")		2.0%		n∖a		3		)5-05				
Live Load Deflectio		616 (0.337")		3.0%		n∖a		6		)5-05				
Total Neg. Defl.		999 (-0.054")				n∖a		3		6-03				
Max Defl.		414"	4	1.4%		n∖a		3	18-0	)5-05				
Span / Depth	21	.8												
Bearing Suppo	rts Dim ()	xW)	Value		% Allow Support	% A Men	llow nber	Mate	rial					
Dearing ouppe														
B1 Wall/Pla			255 lbs	6	10.4%	23.8	3%	Unsp	ecified		Disc	losure	)	

B1	Wall/Plate	2-7/8" x 2"	255 lbs	10.4%	23.8%	Unspecified	
B1	Uplift		114 lbs				
B2	Beam	5-3/4" x 2"	1178 lbs	25.2%	46.7%	Unspecified	
B3	Wall/Plate	4-3/8" x 2"	503 lbs	13.5%	44.7%	Unspecified	

### Cautions

Uplift of -114 lbs found at bearing B1.

### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. BC CALC® analysis is based on IBC 2009. Composite El value based on 3/4" thick OSB sheathing glued and nailed to member. Design based on Dry Service Condition. Calculations assume member is fully braced. License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods.

subject to the terms of the End User

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# Single 9-1/2" BCI® 5000s-1.8

PASSED

Foundation/Floor Joists/J5-16" O.C.(i894) - 02 (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03 Build 8014 Job name: Lot 323 Park Ridge File name: Lot 323 Park Ridge.mmdl Description: Foundation\Floor Joists\J5-16" O.C.(i894) Address: City, State, Zip: Specifier: **KC-Truss & Panel** Designer: Customer: Don Happel Code reports: ESR-1336 Company: Boise Cascade BMD - Lee's Summit

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			¥									/
B1	09	-02-14	B2				17-06-14					B3
				orizontal Pr	oduct Length	= 26-09-12	2					20
Rea	ction Summar	y (Down / Uplift	) (Ibs)									
Bear	ing	Live	Dead	5	Snow	N	/ind		Roo	f Live		
B1, 2	2-7/8"	231 / 138	23 / 0									
B2, 5	5-3/4"	943 / 0	236 / 0									
B3, 4	1-3/8"	404 / 10	98 / 0									
Loa	d Summary						Live	Dead	Snow	Wind	Roof	OCS
	Description		Ref	Start	End	Loc.	100%	90%	115%	160%	Live 125%	
1 1	FC1 Floor Decking	Load Type (Plan Unf. Lin. (		00-00-00		Top	53	13	115%	100 %	12370	n\a
	View Fill)		10/11) L		20 00 12	iop	00	10				ma
	,											
Cor	ntrols Summary	/ Value	% Allov	vable	Duration	Case	Loca	tion				
Pos.	Moment	1748 ft-lbs	64.1%		100%	3	19-0	2-00				
Neg.	Moment	-1786 ft-lbs	65.5%		100%	1	09-0	2-14				
End	Reaction	503 lbs	44.7%		100%	3	26-0	9-12				
Int. F	Reaction	1178 lbs	46.7%		100%	1	09-0	2-14				
End	Shear	479 lbs	32.4%		100%	3	26-0	5-06				
Cont	. Shear	663 lbs	45.0%		100%	1	09-0	5-12				
Tota	I Load Deflection	L/500 (0.414")	72.0%		n∖a	3	18-0	5-05				
Live	Load Deflection	L/616 (0.337")	78.0%		n∖a	6	18-0	5-05				
Tota	l Neg. Defl.	L/999 (-0.054")	n\a		n∖a	3	05-0	6-03				
Max	Defl.	0.414"	41.4%		n∖a	3	18-0	5-05				
Spar	n / Depth	21.8										
_				% Allow	% Allow							
Bea B1	wall/Plate	Dim. (LxW) 2-7/8" x 2"	Value 255 lbs	% Allow Support 10.4%	% Allow Member 23.8%	Materia Unspe			<b>_</b>	osure		

Dearing	Supports	Dim. (LXW)	Value	Support	Member	Material	
B1	Wall/Plate	2-7/8" x 2"	255 lbs	10.4%	23.8%	Unspecified	
B1	Uplift		114 lbs				
B2	Beam	5-3/4" x 2"	1178 lbs	25.2%	46.7%	Unspecified	
B3	Wall/Plate	4-3/8" x 2"	503 lbs	13.5%	44.7%	Unspecified	

### Cautions

Uplift of -114 lbs found at bearing B1.

### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. BC CALC® analysis is based on IBC 2009. Composite El value based on 3/4" thick OSB sheathing glued and nailed to member. Design based on Dry Service Condition. Calculations assume member is fully braced.

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# Single 9-1/2" BCI® 5000s-1.8

PASSED

December 22, 2021 10:31:03

Foundation\Floor Joists\J5-16" O.C.(i894) - 03 (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J5-16" O.C.(i894)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

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B1	09-02-14	B2				17-06-14					B3
		Total H	orizontal Pr	oduct Length	= 26-09-12	2					
Reaction Summa		· · ·									
Bearing	Live	Dead		Snow	N	Vind		Roo	f Live		
B1, 2-7/8"	231 / 138	23 / 0									
B2, 5-3/4"	943 / 0	236 / 0									
B3, 4-3/8"	404 / 10	98 / 0									
Load Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1 FC1 Floor Deckir View Fill)	ng (Plan Unf. Lin. (I	b/ft) L	00-00-00	0 26-09-12	Тор	53	13				n∖a
<b>Controls Summa</b>	<b>ry</b> Value	% Allow	vable	Duration	Case	Loca	tion				
Pos. Moment	1748 ft-lbs	64.1%		100%	3	19-0	2-00				
Neg. Moment	-1786 ft-lbs	65.5%		4000/		00.0	~				
End Desetion		00.070		100%	1	09-0	2-14				
End Reaction	503 lbs	44.7%		100%	1 3	09-0 26-0					
End Reaction Int. Reaction					-		9-12				
	503 lbs	44.7%		100%	3	26-0	9-12 2-14				
Int. Reaction	503 lbs 1178 lbs	44.7% 46.7%		100% 100%	3 1	26-0 09-0	9-12 2-14 5-06				
Int. Reaction End Shear	503 lbs 1178 lbs 479 lbs	44.7% 46.7% 32.4%		100% 100% 100%	3 1 3	26-0 09-0 26-0	9-12 2-14 5-06 5-12				
Int. Reaction End Shear Cont. Shear	503 lbs 1178 lbs 479 lbs 663 lbs	44.7% 46.7% 32.4% 45.0%		100% 100% 100% 100%	3 1 3 1	26-0 09-0 26-0 09-0	9-12 2-14 5-06 5-12 5-05				
Int. Reaction End Shear Cont. Shear Total Load Deflection	503 lbs 1178 lbs 479 lbs 663 lbs L/500 (0.414")	44.7% 46.7% 32.4% 45.0% 72.0%		100% 100% 100% 100% n\a	3 1 3 1 3	26-0 09-0 26-0 09-0 18-0	9-12 2-14 5-06 5-12 5-05 5-05				
Int. Reaction End Shear Cont. Shear Total Load Deflection Live Load Deflection	503 lbs 1178 lbs 479 lbs 663 lbs L/500 (0.414") L/616 (0.337")	44.7% 46.7% 32.4% 45.0% 72.0% 78.0%		100% 100% 100% 100% n\a n\a	3 1 3 1 3 6	26-0 09-0 26-0 09-0 18-0 18-0	9-12 2-14 5-06 5-12 5-05 5-05 6-03				
Int. Reaction End Shear Cont. Shear Total Load Deflection Live Load Deflection Total Neg. Defl.	503 lbs 1178 lbs 479 lbs 663 lbs L/500 (0.414") L/616 (0.337") L/999 (-0.054")	44.7% 46.7% 32.4% 45.0% 72.0% 78.0% n\a		100% 100% 100% n\a n\a n\a	3 1 3 1 3 6 3	26-0 09-0 26-0 09-0 18-0 18-0 05-0	9-12 2-14 5-06 5-12 5-05 5-05 6-03				
Int. Reaction End Shear Cont. Shear Total Load Deflection Live Load Deflection Total Neg. Defl. Max Defl. Span / Depth	503 lbs 1178 lbs 479 lbs 663 lbs L/500 (0.414") L/616 (0.337") L/999 (-0.054") 0.414" 21.8	44.7% 46.7% 32.4% 45.0% 72.0% 78.0% n\a 41.4%	% Allow	100% 100% 100% n\a n\a n\a Na <b>% Allow</b>	3 1 3 1 3 6 3 3	26-0 09-0 26-0 09-0 18-0 18-0 05-0 18-0	9-12 2-14 5-06 5-12 5-05 5-05 6-03				
Int. Reaction End Shear Cont. Shear Total Load Deflection Live Load Deflection Total Neg. Defl. Max Defl.	503 lbs 1178 lbs 479 lbs 663 lbs L/500 (0.414") L/616 (0.337") L/999 (-0.054") 0.414" 21.8	44.7% 46.7% 32.4% 45.0% 72.0% 78.0% n\a	% Allow Support 10.4%	100% 100% 100% n\a n\a n\a n\a	3 1 3 1 3 6 3	26-0 09-0 26-0 09-0 18-0 18-0 18-0	9-12 2-14 5-06 5-12 5-05 5-05 6-03	Disc	osure		

### Cautions

Uplift of -114 lbs found at bearing B1.

5-3/4" x 2"

4-3/8" x 2"

Beam

Wall/Plate

### Notes

B2

B3

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. BC CALC® analysis is based on IBC 2009. Composite El value based on 3/4" thick OSB sheathing glued and nailed to member. Design based on Dry Service Condition. Calculations assume member is fully braced.

1178 lbs

503 lbs

25.2%

13.5%

46.7%

44.7%

Unspecified

Unspecified

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	Cascade®					Si	ngl	e 9	-1/2	" B	SCI®	D 50	00s-	-1.8	В							P/	SS	ED
ENGINEER	RED WOOD PRODUCTS			Fou	ndat	ion\F	Floc	or Jo	oists	\J5-	-16"	0.C	.(i900	)) (F	-loor	Joist)								
BC CALC Build 801	C® Membe 4	r Rep	oort	Dry	2 spa	ans   l	No c	cant.	16	OCS	5   Re	epetit	tive   C	Slue	ed & na	iled		D	ecer	nbei	r 22,	202 <sup>-</sup>	1 10:	31:03
Job name	e:	Lot	323 Pa	ark Ridge							File	nam	e:	Lo	t 323 F	Park Rido	ge.m	mdl						
Address:												cripti		Fo	oundati	on\Floor	Jois	ts\J5	-16"	0.0	C.(i90	0)		
City, Stat	-		_								•	cifier		_										
Custome		-		& Panel								igner			n Hap	-					.,			
Code rep	orts:	ES	R-1336								Con	npan	y:	BO	lise Ca	scade B	ND ·	- Lee	s S	umn	nit			
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						•																		
$\mathbf{X}$							_	_		_	_			_			_	_	_	_		_	_	$\mathbf{ imes}$
¥		00	02-14			₩ ⊀									17-06-1	4								<del>/</del>
B1		09-	02-14		I	B2										4								B3
	-		-				al Ho	orizo	ntal P	Produ	uct L	ength	n = 26-(	09-1	2									
	on Sumn	nary		/n / Uplift						Sno					Vind			Dee	<b></b>					
Bearing B1, 4-3/8	"		Live 220 / 14	48		ead 3 / 0				3110	JW			V	vina			RUU	of Liv	/e				
B2, 5-3/4			1026 / 0			70/0																		
B3, 4-3/8			423/9			0 / 3																		
,																								
Load S	ummary	,													Live	Dead	S	now	w	ind	Ro	of		ocs
Tag Des	-			Load Type			Ref.		Start		с.	nd	Loc.		100%	90%	1	15%	16	60%	Liv 125			
1 FC1	Floor Dec W Fill)	king	(Plan	Unf. Lin. (					)-00-0	00		2-14			50	13		15 /6	10	0 /0	123	J /0		n\a
2 FC1	l Floor Dec w Fill)	king	(Plan	Unf. Lin. (	(lb/ft)	I	L	09	-02-1	14	26-0	9-12	Тор		30	7								n\a
3 FC1	l Floor Dec w Fill)	king	(Plan	Unf. Lin. (	(lb/ft)	I	L	09	-02-1	14	26-0	8-04	Тор		27	7								n\a
4 6(i5	•			Conc. Pt.	(lbs)	I	L	09	-03-0	)2	09-0	3-02	Тор		65	30								n\a
Contro	ls Summ	nary	Valu	ue		% A	llow	able		Du	ratio	n	Ca	ase	Loc	ation								
Pos. Mon	nent		184	3 ft-lbs		67.6	6%			10	0%			3	19-	02-00								
Neg. Mor	nent		-18	56 ft-lbs		68.1	۱%			10	0%			1	09-	02-14								
End Read				blbs		46.8					0%			3		09-12								
Int. Reac				07 lbs		51.4					0%			1		02-14								
End Shea				blbs		34.2					0%			3		05-06								
Cont. She				lbs		47.3				10	0%			1		05-12								
Total Loa	d Deflectio	n	L/47	74 (0.437")		75.9				n\a	à			3		05-05								
	d Deflection	า		85 (0.354")		82.1	1%			n\a				6	18-	05-05								
Total Neg	-			99 (-0.057")		n∖a				n\a				3		06-12								
Max Defl.			0.43			43.7	7%			n\a	a			3	18-	05-05								
Span / De	epth		21.8	8																				
Bearing	g Suppo	rts	Dim. (L	xW)	Valu	ue		% Al Supj			% All Mem		Ma	teria	al									
B1	Wall/Plat		4-3/8" >			B lbs		6.4%			21.2				cified									
B1	Uplift				130	) Ibs								•										
B2	Beam		5-3/4" >	x 2"	129	7 lbs		27.7	7%	;	51.4	%	Un	spe	cified									
B3	Wall/Plat	е	4-3/8" >	k 2"	526	ibs		14.2	2%	4	46.8	%	Un	spe	cified									
Caution	ns																							
Uplift of -	130 lbs fou	ind a	t bearin	g B1.																				



# Single 9-1/2" BCI® 5000s-1.8



# Foundation/Floor Joists/J5-16" O.C.(i900) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

			, -
Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J5-16" O.C.(i900)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



# Single 9-1/2" BCI® 5000s-1.8



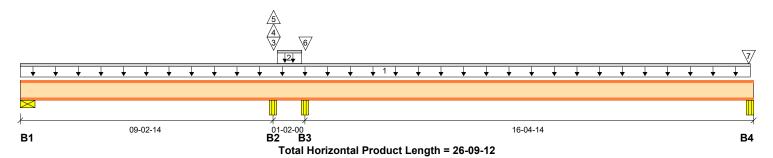
# Foundation\Floor Joists\J5-16" O.C.(i901) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

**Roof Live** 

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J5-16" O.C.(i901)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



Snow

Wind

# Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	
B1, 4-3/8"	220 / 46	44 / 0	
B2, 5-3/4"	541 / 1056	0 / 1841	
B3, 4"	1324 / 197	318 / 0	
B4, 4-3/8"	371 / 4	134 / 0	

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	26-08-04	Тор	53	13				n\a
2	26(i73)	Unf. Lin. (lb/ft)	L	09-04-14	10-03-06	Тор		57				n\a
3	6(i54)	Conc. Pt. (lbs)	L	09-03-02	09-03-02	Тор	36	39				n\a
4	6(i54)	Conc. Pt. (lbs)	L	09-03-02	09-03-02	Тор		-1857				n∖a
5	6(i54)	Conc. Pt. (lbs)	L	09-03-02	09-03-02	Тор	-364					n\a
6	11(i57)	Conc. Pt. (lbs)	L	10-05-02	10-05-02	Тор	47	22				n\a
7	E4(i38)	Conc. Pt. (lbs)	L	26-07-09	26-07-09	Тор		45				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1434 ft-lbs	52.6%	100%	7	19-10-03
Neg. Moment	-1673 ft-lbs	61.4%	100%	1	10-04-14
End Reaction	505 lbs	44.9%	100%	7	26-09-12
Int. Reaction	1642 lbs	73.7%	100%	6	10-04-14
End Shear	433 lbs	29.4%	100%	6	26-05-06
Cont. Shear	923 lbs	62.5%	100%	6	10-02-14
Total Load Deflection	L/659 (0.293")	54.7%	n∖a	7	19-02-03
Live Load Deflection	L/817 (0.236")	58.7%	n∖a	15	19-02-03
Total Neg. Defl.	L/999 (-0.013")	n∖a	n∖a	6	06-00-01
Max Defl.	0.293"	29.3%	n∖a	7	19-02-03
Span / Depth	20.3				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 2"	264 lbs	7.1%	23.5%	Unspecified
B2	Beam	5-3/4" x 2"	0 lbs	n∖a	n∖a	Unspecified
B2	Uplift		2897 lbs			
B3	Beam	4" x 2"	1642 lbs	50.4%	73.7%	Unspecified
B4	Beam	4-3/8" x 2"	505 lbs	14.3%	44.9%	Unspecified

### Cautions

Uplift of -2897 lbs found at bearing B2.



PASSED

# Foundation/Floor Joists/J5-16" O.C.(i901) (Floor Joist)

Dry 13 spans | No cant | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

BC CALC® Memb	er Report	Dry   3 spans   No c	Dry   3 spans   No cant.   16 OCS   Repetitive   Glued & nailed					
Build 8014								
Job name:	Lot 323 Park F	Ridge	File name:	Lot 323 Park Ridge.mmdl				
Address:			Description:	Foundation\Floor Joists\J5-				
City, State, Zip:			Specifier:					
Customer:	KC-Truss & Pa	anel	Designer:	Don Happel				
Code reports:	ESR-1336		Company:	Boise Cascade BMD - Lee'				

Floor Joists\J5-16" O.C.(i901) ade BMD - Lee's Summit

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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	Boise Cascade <sup>®</sup>			Single	e 9-1/2"	BCI® 50	00s-1.	8				P	ASSED
	ENGINEERED WOOD PRODUCTS		Foundati	on\Floo	r Joists\J	5-16" O.C.	.(i998) (l	Floor J	oist)			L	
BC C	CALC® Member	Report				CS   Repetiti	• • •			De	ecembei	r 22, 202	1 10:31:03
Build	8014			·			·						
Job r	name:	Lot 323 Pa	rk Ridge			File name	e: Lo	ot 323 Pa	ark Ridg	e.mmdl			
Addr	ess:					Descriptio	on: Fo	oundatio	n∖Floor 、	Joists\J5	-16" O.C	C.(i998)	
City,	State, Zip:					Specifier:							
	omer:	KC-Truss &	& Panel			Designer		on Happ	el				
Code	e reports:	ESR-1336				Company	/: Bo	oise Cas	cade BN	/ID - Lee	's Sumn	nit	
			<u>Γ</u>	-7									
		2	<u> </u>	4/									
								3					
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				<mark>  </mark> 									
B1		09-02-14	в	2				17-06-14					B3
5.			_		orizontal Pro	duct Length	= 26-09-1	2					20
Rea	ction Summ	arv (Dow	n / Uplift) (lbs			-							
Bear		Live	Dea		S	now	V	Vind		Roo	f Live		
B1, 3	3-5/8"	248 / 13	31 190	0/0									
	5-3/4"	1099 / (	569	9/0									
B3, 4	1-3/8"	382 / 1 <sup>-</sup>	1 85	/ 0									
_									Deed	0	Martine al	Deef	
Loa	d Summary							Live	Dead	Snow	Wind	Roof Live	OCS
	Description		Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Deck View Fill)	ang (Plan	Unf. Lin. (lb/ft)	L	00-00-00	09-02-14	Тор	57	14				n\a
2	FC1 Floor Deck	king (Plan	Unf. Lin. (lb/ft)	L	00-02-06	09-01-06	Тор		39				n\a
-	View Fill)			-	00 02 00	00 01 00	100		00				110
3	FC1 Floor Deck	king (Plan	Unf. Lin. (Ib/ft)	L	09-02-14	26-09-12	Тор	50	13				n∖a
	View Fill)												
4	6(i54)		Conc. Pt. (lbs)	L	09-03-02	09-03-02	Тор	177	148				n\a
Cor	ntrols Summ	ary Valu	le	% Allowa	able D	Ouration	Case	Loca	tion				
	Moment		6 ft-lbs	58.6%		00%	3		4-14				
Neg.	Moment	-184	41 ft-lbs	67.6%	1	00%	1	09-0	2-14				
	Reaction	468		41.6%		00%	3		9-12				
	Reaction		8 lbs	66.1%		00%	1		2-14				
	Shear	445		30.1%		00%	3	26-0					
Cont	. Shear	671	lbs	45.5%	1	00%	1	09-0	0-00				
Tota	I Load Deflectior	ר L/58	56 (0.373")	64.8%	r	i\a	3	18-0	6-13				
Live	Load Deflection	L/65	52 (0.318")	73.6%	r	i\a	6	18-0	5-05				

n∖a

n∖a

% Allow

% Allow

3

3

06-05-02

18-06-13

Bearing Supports Dim. (LxW) Value Support Member Material B1 Wall/Plate Unspecified 3-5/8" x 2" 438 lbs 14.2% 38.9% B2 Beam 5-3/4" x 2" 1668 lbs 35.7% 66.1% Unspecified Β3 Wall/Plate Unspecified 4-3/8" x 2" 468 lbs 12.6% 41.6%

n∖a

37.3%

L/999 (-0.025")

0.373"

21.8

Total Neg. Defl.

Max Defl.

Span / Depth



# Single 9-1/2" BCI® 5000s-1.8

PASSED

# Foundation/Floor Joists/J5-16" O.C.(i998) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J5-16" O.C.(i998)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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# Double 9-1/2" BCI® 5000s-1.8



# Foundation/Floor Joists/J8-16" O.C.(i1017) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J8-16" O.C.(i1017)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

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$\triangleleft$																														
B1															16-07-04															B
											Tota	al Ho	rizor	ntal F	Product L	engt	th = 1	6-07	-04											04

Snow

Wind

# Reaction Summary (Down / Uplift) (Ibs)

Bearing	Live	Dead
B1, 4-3/8"	890 / 0	369 / 0
B2, 4-3/8"	429 / 0	118 / 0

Loa	ad Summary		Live	Dead	Snow	Wind	Roof Live	OCS				
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	16-07-04	Тор	52	13				n\a
2	2(i52)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	468	201				n\a
3	46(i93)	Conc. Pt. (lbs)	L	02-06-10	02-06-10	Тор		73				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	2150 ft-lbs	39.4%	100%	1	08-02-05
End Reaction	1259 lbs	56.0%	100%	1	00-00-00
End Shear	575 lbs	19.5%	100%	1	00-04-06
Total Load Deflection	L/711 (0.27")	50.6%	n∖a	1	08-03-09
Live Load Deflection	L/930 (0.206")	51.6%	n∖a	2	08-03-09
Max Defl.	0.27"	27.0%	n∖a	1	08-03-09
Span / Depth	20.2				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 4"	1259 lbs	16.9%	56.0%	Unspecified
B2	Wall/Plate	4-3/8" x 4"	546 lbs	7.3%	24.3%	Unspecified

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member. Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

Roof Live

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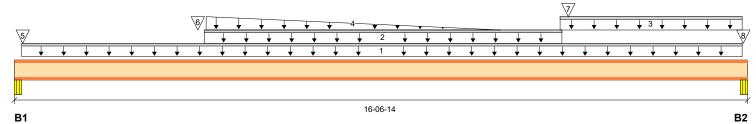
# Double 9-1/2" BCI® 5000s-1.8

PASSED

Foundation\Floor Joists\J8-16" O.C.(i1019) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03 Build 8014 Lot 323 Park Ridge File name: Job name: Lot 323 Park Ridge.mmdl Description: Foundation\Floor Joists\J8-16" O.C.(i1019) Address: City, State, Zip: Specifier: **KC-Truss & Panel** Designer: Customer: Don Happel Code reports: ESR-1336 Company: Boise Cascade BMD - Lee's Summit



Total Horizontal Product Length = 16-06-14

# Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 4"	464 / 0	491 / 0			
B2, 4-3/8"	219 / 0	385 / 0			

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-00	16-05-06	Тор	27	7				n∖a
2	19(i65)	Unf. Lin. (lb/ft)	L	04-03-08	12-04-08	Тор		57				n∖a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	12-04-00	16-05-06	Тор		10				n\a
4	FC1 Floor Decking (Plan	Trapezoidal (lb/ft)	L	04-04-00		Тор		7				n∖a
	View Fill)				11-00-00			0				
5	9(i56)	Conc. Pt. (lbs)	L	00-02-04	00-02-04	Тор	248	149				n∖a
6	20(i66)	Conc. Pt. (lbs)	L	04-01-12	04-01-12	Тор		38				n∖a
7	18(i67)	Conc. Pt. (lbs)	L	12-06-04	12-06-04	Тор		38				n∖a
8	E2(i31)	Conc. Pt. (lbs)	L	16-05-11	16-05-11	Тор		11				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	2714 ft-lbs	49.8%	100%	1	08-03-08
End Reaction	955 lbs	42.4%	100%	1	00-00-00
End Shear	582 lbs	19.7%	100%	1	16-02-08
Total Load Deflection	L/576 (0.333")	62.5%	n∖a	1	08-03-08
Live Load Deflection	L/999 (0.107")	n∖a	n∖a	2	08-03-08
Max Defl.	0.333"	33.3%	n∖a	1	08-03-08
Span / Depth	20.2				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	4" x 4"	955 lbs	14.7%	42.4%	Unspecified
B2	Beam	4-3/8" x 4"	604 lbs	8.5%	26.8%	Unspecified

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite El value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

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### Double 9-1/2" BCI® 5000s-1.8



### Foundation\Floor Joists\J8-16" O.C.(i1036) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J8-16" O.C.(i1036)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

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+	¥	¥	+	¥	¥	¥	¥	¥	+	¥	¥	¥	¥	¥	1	¥	¥	¥	¥	¥	¥	¥	¥	¥	¥	¥	+	¥	¥	¥
1														17	-09-12															В
•										т	otal H	loriz	onta	l Pro	duct	Len	gth =	= 17-(	09-12	2										-

Snow

Wind

# Reaction Summary (Down / Uplift) (lbs)

Беагінд	Live	Dead
B1, 5-3/4"	529 / 0	238 / 0
B2, 4-3/8"	472 / 0	118 / 0

Lo	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	17-09-12	Тор	53	13				n\a
2	6(i54)	Conc. Pt. (lbs)	L	00-03-02	00-03-02	Тор	64	122				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	2435 ft-lbs	44.7%	100%	1	08-11-09
End Reaction	768 lbs	34.1%	100%	1	00-00-00
End Shear	566 lbs	19.2%	100%	1	00-05-12
Total Load Deflection	L/597 (0.344")	60.3%	n∖a	1	08-11-09
Live Load Deflection	L/746 (0.275")	64.4%	n∖a	2	08-11-09
Max Defl.	0.344"	34.4%	n∖a	1	08-11-09
Span / Depth	21.6				

Deerin	a Supporto			% Allow	% Allow	
Dearin	g Supports	Dim. (LxW)	Value	Support	Member	Material
B1	Beam	5-3/4" x 4"	768 lbs	8.2%	34.1%	Unspecified
B2	Wall/Plate	4-3/8" x 4"	590 lbs	7.9%	26.2%	Unspecified

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

Roof Live

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



### Double 9-1/2" BCI® 5000s-1.8

PASSED

### Foundation/Floor Joists/J8-16" O.C.(i1044) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J8-16" O.C.(i1044)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit
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1										Tota	al Ho	rizoi	ntal I	Product	Leng	th = 1	16-07	7-04											
action	5 Su	ımn	narı	<i>, (</i> D		n /	IInl	ift\ /							-														

Snow

Wind

# Reaction Summary (Down / Uplift) (lbs)

Dearing	LIVE	Deau
B1, 4-3/8"	525 / 0	272 / 0
B2, 4-3/8"	304 / 0	84 / 0

Lo	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	16-07-04	Тор	37	9				n\a
2	2(i52)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	226	147				n\a
3	46(i93)	Conc. Pt. (lbs)	L	02-06-10	02-06-10	Тор		59				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1531 ft-lbs	28.1%	100%	1	08-02-05
End Reaction	797 lbs	35.4%	100%	1	00-00-00
End Shear	414 lbs	14.0%	100%	1	00-04-06
Total Load Deflection	L/998 (0.192")	36.1%	n∖a	1	08-02-05
Live Load Deflection	L/1313 (0.146")	36.5%	n∖a	2	08-03-09
Max Defl.	0.192"	19.2%	n∖a	1	08-02-05
Span / Depth	20.2				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 4"	797 lbs	10.7%	35.4%	Unspecified
B2	Wall/Plate	4-3/8" x 4"	388 lbs	5.2%	17.2%	Unspecified

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member. Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

Roof Live

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



### Double 9-1/2" BCI® 5000s-1.8

PASSED

### Foundation\Floor Joists\J8-16" O.C.(i1052) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J8-16" O.C.(i1052)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

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4															16-07-04															Б
B1 B2 B2 Total Horizontal Product Length = 16-07-04																														
Vacction Summary (Down / Unlift) (lbs)							n I	IInl	ift\	/lhc	• •																			

Snow

Wind

# Reaction Summary (Down / Uplift) (Ibs)

Dearing	LIVC	Deuu
B1, 4-3/8"	912/0	381 / 0
B2, 4-3/8"	443 / 0	111/0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	16-07-04	Тор	53	13				n\a
2	2(i52)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	476	272				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	2133 ft-lbs	39.1%	100%	1	08-03-10
End Reaction	1292 lbs	57.4%	100%	1	00-00-00
End Shear	529 lbs	17.9%	100%	1	00-04-06
Total Load Deflection	L/721 (0.266")	49.9%	n∖a	1	08-03-10
Live Load Deflection	L/901 (0.213")	53.3%	n∖a	2	08-03-10
Max Defl.	0.266"	26.6%	n∖a	1	08-03-10
Span / Depth	20.2				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 4"	1292 lbs	17.4%	57.4%	Unspecified
B2	Wall/Plate	4-3/8" x 4"	553 lbs	7.4%	24.6%	Unspecified

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

Roof Live

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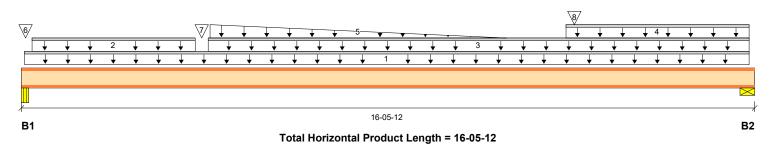
### Double 9-1/2" BCI® 5000s-1.8

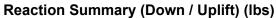


Foundation\Floor Joists\J8-16" O.C.(i913) (Floor Joist) Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Floor Joists\J8-16" O.C.(i913)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit





Bearing	Live	Dead	Snow	Wind	Roof Live	
B1, 2-7/8"	660 / 0	381 / 0				
B2, 4-3/8"	374 / 0	255 / 0				

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-14	16-04-04	Тор	20	5				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	03-10-14	Тор	13	3				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	04-02-06	16-04-04	Тор	27	7				n\a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	12-02-14	16-04-04	Тор		23				n\a
5	FC1 Floor Decking (Plan	Trapezoidal (lb/ft)	L	04-02-14		Тор		10				n\a
	View Fill)				10-10-14			0				
6	9(i56)	Conc. Pt. (lbs)	L	00-01-02	00-01-02	Тор	334	217				n\a
7	20(i66)	Conc. Pt. (lbs)	L	04-00-10	04-00-10	Тор		47				n∖a
8	18(i67)	Conc. Pt. (lbs)	L	12-05-02	12-05-02	Тор		68				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	2202 ft-lbs	40.4%	100%	1	08-04-14
End Reaction	1041 lbs	48.6%	100%	1	00-00-00
End Shear	609 lbs	20.7%	100%	1	16-01-06
Total Load Deflection	L/693 (0.277")	52.0%	n∖a	1	08-02-06
Live Load Deflection	L/1078 (0.178")	44.5%	n∖a	2	08-02-06
Max Defl.	0.277"	27.7%	n∖a	1	08-02-06
Span / Depth	20.2				

	-			% Allow	% Allow	
Bearing	g Supports	Dim. (LxW)	Value	Support	Member	Material
B1	Beam	2-7/8" x 4"	1041 lbs	22.2%	48.6%	Unspecified
B2	Wall/Plate	4-3/8" x 4"	629 lbs	8.5%	27.9%	Unspecified



### Double 9-1/2" BCI® 5000s-1.8



### Foundation\Floor Joists\J8-16" O.C.(i913) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:	-	Description:	Foundation\Floor Joists\J8-16" O.C.(i913)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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### Double 9-1/2" BCI® 5000s-1.8

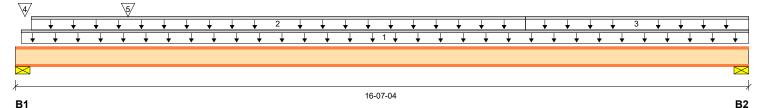


### Foundation/Floor Joists/J8-16" O.C.(i920) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
	Description:	Foundation\Floor Joists\J8-16" O.C.(i920)
	Specifier:	
KC-Truss & Panel	Designer:	Don Happel
ESR-1336	Company:	Boise Cascade BMD - Lee's Summit
	KC-Truss & Panel	Description:       Specifier:       KC-Truss & Panel       Designer:



Total Horizontal Product Length = 16-07-04

Reaction Summa	ry (Down / Uplift)	(lbs)			
Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 4-3/8"	843 / 0	379 / 0			
B2, 4-3/8"	426 / 0	120 / 0			

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	16-07-04	Тор	27	7				n∖a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-04-06	11-06-10	Тор	26	7				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	11-06-10	16-07-04	Тор	23	6				n\a
4	2(i52)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	420	192				n∖a
5	49(i95)	Conc. Pt. (lbs)	L	02-06-10	02-06-10	Тор		94				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	2199 ft-lbs	40.3%	100%	1	08-00-07
End Reaction	1222 lbs	54.3%	100%	1	00-00-00
End Shear	602 lbs	20.4%	100%	1	00-04-06
Total Load Deflection	L/696 (0.276")	51.8%	n\a	1	08-02-02
Live Load Deflection	L/920 (0.209")	52.2%	n∖a	2	08-03-13
Max Defl.	0.276"	27.6%	n∖a	1	08-02-02
Span / Depth	20.2				

Bear	ing Supports	Dim (LxW)	Value	% Allow Support	% Allow Member	Material	Us
B1	Wall/Plate	4-3/8" x 4"	1222 lbs	16.4%	54.3%	Unspecified	— suł Lic
B2	Wall/Plate	4-3/8" x 4"	545 lbs	7.3%	24.2%	Unspecified	Co

#### **Notes**

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

se of the Boise Cascade Software is ubject to the terms of the End User icense Agreement (EULA). ompleteness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



BC (	Boise Cascade* ENGINEERED WOOD PRODUCTS CALC® Member	Report		ion\Floc	<b>le 9-1/2"</b> or Joists\Ja ant.   16 OC	8-16" O.C.	.(i921) (l	-loor J		De	ecembei	L	ASSED 1 10:31:03
Job Add	d 8014 name: ress: , State, Zip:	Lot 323 Pa	rk Ridge			File name Descriptio Specifier:	on: Fo		ark Ridg n∖Floor √	e.mmdl Joists\J8·	-16" O.C	C.(i921)	
-	tomer: le reports:	KC-Truss & ESR-1336	& Panel			Designer Company		on Happ bise Cas		/ID - Lee	's Sumn	nit	
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× k					16	07.04							<b>⊠</b> ≁
B1					orizontal Pro	07-04							B2
Bear B1,	action Summ ring 4-3/8" 4-3/8"	ary (Dow Live 920 / 0 443 / 0	<b>De</b> 43		Sr	now	v	Vind		Roo	f Live		
Loa	ad Summary							Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description		Load Type	Ref.		End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Deck View Fill)	king (Plan	Unf. Lin. (lb/ft)	L	00-01-10	16-07-04	Тор	53	13				n\a
2	FC1 Floor Deck View Fill)	king (Plan	Unf. Lin. (lb/ft)	L	00-04-06	02-04-14	Тор		22				n\a
3 4	2(i52) 49(i95)		Conc. Pt. (lbs) Conc. Pt. (lbs)	L L	00-02-10 02-06-10	00-02-10 02-06-10	Тор Тор	484	203 92				n∖a n∖a
Co	ntrols Summ	ary Valu	le	% Allow	vable D	uration	Case	Loca	tion				
	. Moment		4 ft-lbs	41.5%		00%	1		1-02				
End	Reaction	135	3 lbs	60.1%	1	00%	1	00-0	0-00				
End	Shear	651	lbs	22.1%	1	00%	1	00-0	4-06				
Tota	al Load Deflectior		74 (0.285")	53.4%	n	\a	1	08-0	2-05				
Live	Load Deflection		01 (0.213")	53.3%	n	\a	2	08-0	4-12				
	: Defl. n / Depth	0.28 20.2		28.5%	n	\a	1	08-0	2-05				

Beari	ng Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material	
B1	Wall/Plate	4-3/8" x 4"	1353 lbs	18.2%	60.1%	Unspecified	
B2	Wall/Plate	4-3/8" x 4"	570 lbs	7.7%	25.3%	Unspecified	

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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Build 8014 Job name:

Address: City, State, Zip:

Customer:

### Double 9-1/2" BCI® 5000s-1.8

PASSED

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**B2** 

### Foundation/Floor Joists/J8-16" O.C.(i922) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03 **BC CALC® Member Report** Lot 323 Park Ridge File name: Lot 323 Park Ridge.mmdl Foundation\Floor Joists\J8-16" O.C.(i922) Description: Specifier: **KC-Truss & Panel** Designer: Don Happel

Code reports: ESR-1336 Company: Boise Cascade BMD - Lee's Summit 3/ 1 Ŧ 16-07-04 **B1** 

Total Horizontal Product Length = 16-07-04

#### Reaction Summary (Down / Uplift) (Ibs) Bearing Live Dead Snow Wind B1, 4-3/8" 920 / 0 377 / 0 B2, 4-3/8" 443/0 115/0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-01-10	16-07-04	Тор	53	13				n∖a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-04-06	02-04-14	Тор		34				n∖a
3	2(i52)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	484	203				n\a
60	ntrole Summary					0		41				

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	2171 ft-lbs	39.8%	100%	1	08-03-13
End Reaction	1297 lbs	57.6%	100%	1	00-00-00
End Shear	595 lbs	20.2%	100%	1	00-04-06
Total Load Deflection	L/706 (0.272")	51.0%	n\a	1	08-03-13
Live Load Deflection	L/901 (0.213")	53.3%	n\a	2	08-03-13
Max Defl.	0.272"	27.2%	n\a	1	08-03-13
Span / Depth	20.2				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material	
B1	Wall/Plate	4-3/8" x 4"	1297 lbs	17.4%	57.6%	Unspecified	
B2	Wall/Plate	4-3/8" x 4"	558 lbs	7.5%	24.8%	Unspecified	-

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite El value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

Roof Live

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### Double 9-1/2" BCI® 5000s-1.8

PASSED

### Foundation\Floor Joists\J8-16" O.C.(i923) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

BC CALC® Mem	ber Report	Dry   1 span   No cant.	16 OCS   Repetitive   0	Glued & nailed	December 22, 2021 10:31:03
Build 8014					
Job name:	Lot 323 Park Ri	dge	File name:	Lot 323 Park Ridge	.mmdl
Address:			Description:	Foundation\Floor J	oists\J8-16" O.C.(i923)
City, State, Zip:			Specifier:		
Customer:	KC-Truss & Pa	nel	Designer:	Don Happel	
Code reports:	ESR-1336		Company:	Boise Cascade BM	D - Lee's Summit

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																														$\mathbf{ imes}$
⊁																														
B	1														16	6-07-04														B2
											٦	Total	Но	rizon	tal Pro	oduct L	ength	n = 16-	07-0	4										
Re	act	tion	Su	mn	nary	/ (D	ow	n / I	Upl	ift) (l	bs)																			
Bea					_	Live	-				Dead				S	now			N	/ind				Roc	of Liv	e				
B1,						883					297																			
B2,	4-3	8/8"				443	/ 0			1	111	0																		
		<b>c</b>																		Live	г	Dead	S	now	w	ind	Ro	of		005
LO	au	Su	mm	ary																LIVE	-	Jeau	0	1011	•••	iiu	Liv			000
Tag		escri	_						id Ty			R	ef.	-	tart	Er	-	Loc		100%		0%	11	15%	16	0%	12	5%		
1		C1 F iew F		Dec	king	(Pla	n	Un	f. Lir	. (Ib/fl	t)	L		00-	01-10	16-0	7-04	Тор		53	1	3								n\a
2	2(	(i52)						Co	nc. F	Pt. (lbs	5)	L		00-	02-10	00-0	2-10	Тор		447	1	88								n\a
Со	ntr	ols	Su	mn	nary	/	Valu	е			%	6 Allo	owa	ble		Duratio	n	С	ase	Lo	catio	n								
Pos	6. M	ome	nt				2133	3 ft-l	os		3	9.1%	6			100%			1	08	-03-1	10								
End	d Re	eactio	on				1179	9 Ibs			5	2.4%	6			100%			1	00	-00-0	00								
_																														
End	d Sh	near					529	lbs			1	7.9%	6			100%			1	00	-04-0	)6								

n\a

n\a

Poorin	a Supporto	<b>-</b>		% Allow	% Allow	•• · • •	
Dearing	g Supports	Dim. (LxW)	Value	Support	Member	Material	
B1	Wall/Plate	4-3/8" x 4"	1179 lbs	15.9%	52.4%	Unspecified	
B2	Wall/Plate	4-3/8" x 4"	553 lbs	7.4%	24.6%	Unspecified	

53.3%

26.6%

#### Notes

Max Defl.

Span / Depth

Live Load Deflection

Design meets User specified (L/360) Total load deflection criteria.

L/901 (0.213")

0.266"

20.2

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

08-03-10

08-03-10

2

1

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

	Boise Cascade*		[	Doubl	e 9-1/2"	BCI® 50	)00s	-1.8				F	PASSED
	ENGINEERED WOOD PRODUCTS		Foundatio	n\Floo	r Joists\J8	3-16" O.C.	.(i925	5) (Floor J	oist)				
BC (	CALC® Member R	eport	Dry   1 spar							De	ecember	r 22, 20	21 10:31:03
Build	d 8014												
		ot 323 Par.	k Ridge			File name		Lot 323 Pa	•				
	ress:					Descriptio		Foundation	n\Floor 、	Joists\J8	-16" O.C	C.(i925)	
	State, Zip:	· - ·				Specifier:							
		C-Truss &	Panel			Designer		Don Happ					
Cod	e reports: E	SR-1336				Company	/:	Boise Cas	cade BN	/ID - Lee	's Sumn	nit	
Bear	+     +     +     +       +     +     +     +       -     -     -     -       -     -     -     -       -     -     -     -       -     -     -     -       -     -     -     -       -     -     -     -       -     -     -     -       -     -     -     -       -     -     -     -       -     -     -     -       -     -     -     -       -     -     -     -       -     -     -     -				rizontal Proc	1 ↓ ↓ 07-04 duct Length	↓ ↓ = 16-0	↓ ↓ 07-04 Wind	<b>↓</b> ↓	↓ ↓ Roo	↓ ↓ f Live	<b>↓ ↓</b>	↓ ↓
	4-3/8"	443 / 0	126	/ 0									
Loa	ad Summary		Load Type	Ref.	Start	End	Loc.	Live 100%	Dead 90%	Snow 115%	Wind 160%	Roof Live 125%	ocs
1	FC1 Floor Deckir	ng (Plan	Unf. Lin. (lb/ft)	L	00-01-10	16-07-04	Тор	53	13				n\a
	View Fill)						_						
2	47(i94)		Unf. Lin. (lb/ft)	L	00-04-06	02-04-14	Тор т	470	57				n∖a
3	2(i52)		Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	472	198				n∖a
4	46(i93)		Conc. Pt. (lbs)	L	02-06-10	02-06-10	Тор		54				n∖a
-													

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	2258 ft-lbs	41.4%	100%	1	07-11-15
End Reaction	1369 lbs	60.8%	100%	1	00-00-00
End Shear	683 lbs	23.2%	100%	1	00-04-06
Total Load Deflection	L/675 (0.284")	53.3%	n∖a	1	08-02-05
Live Load Deflection	L/901 (0.213")	53.3%	n∖a	2	08-03-09
Max Defl.	0.284"	28.4%	n∖a	1	08-02-05
Span / Depth	20.2				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 4"	1369 lbs	18.4%	60.8%	Unspecified
B2	Wall/Plate	4-3/8" x 4"	569 lbs	7.6%	25.3%	Unspecified -

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



# Single 9-1/2" BCI® 5000s-1.8

PASSED

	NEERED WOOD PRODUCTS		oundatio	n\Eloo	r loiete\l	9-16" O.C.	(1025)	(Eloor	loict)				
BC CAI	LC® Member R					CS   Repetiti	• •	•	-	De	cember	22, 2021	10.31.03
Build 8		opon							cu		Joember	22, 2021	10.01.00
Job nar		ot 323 Park Rid	ne			File name	e. Io	ot 323 Pa	ark Rido	e mmdl			
Addres			5-			Descriptio				Joists\J9-	-16" O.C	.(i1025)	
	ate, Zip:					Specifier:						.(	
Custom		C-Truss & Pane	el			Designer		on Happ	el				
Code re		SR-1336				Company				/D - Lee'	's Summ	nit	
	•												
							3						
							× I	+ +	+ +	2	+ +	+ +	¥
+	+ + + +	+ + + +	, <del>,</del> ,	+ +	+ + +	↓ 1 ↓ ↓ .	+ +	+ +	+ +	+ +	+ +	+ + ,	
$\triangleleft$							Π						$\mathbf{\times}$
<u>k</u>							<del>  </del>						
B1			09-04-14				B2			05-08-	-14		B3
				Total H	orizontal Pr	oduct Length	= 15-01-	12					
React	tion Summa	ry (Down / U	plift) (lbs	5)									
Bearing		Live	Dea		5	Snow		Wind		Roo	f Live		
B1, 4-3		154 / 5	35										
B2, 5-3		339 / 0		5/0									
B3, 4-3	/8"	102 / 38	62	/0									
										_			
Load	Summary							Live	Dead	Snow	Wind	Roof Live	ocs
Tag De	escription	Load	Туре	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1 F(	C1 Floor Deckin		Lin. (lb/ft)	L	00-00-00	) 15-01-12	Тор	37	9				n∖a
	iew Fill)												
	C1 Floor Deckin iew Fill)	g (Plan Unf.	Lin. (lb/ft)	L	09-06-14	14-10-14	Тор		18				n∖a
	2(i59)	Cond	c. Pt. (lbs)	L	09-05-02	2 09-05-02	Тор		9				n∖a
Contr	ols Summa	' <b>y</b> Value		% Allow	ablo	Duration	Case	Loca	tion				
Pos. M		338 ft-lbs		12.4%		100%	2	04-0					
Neg. M		-336 ft-lbs		12.3%		100%	1	09-0					
End Re		189 lbs		16.8%		100%	2	00-0					
Int. Rea		484 lbs		19.2%		100%	1	09-0					
End Sh		173 lbs		11.7%		100%	2	00-0					
Cont. S		233 lbs		15.8%		100%	1	09-0	2-00				
	oad Deflection	L/999 (0.0	29")	n∖a		n\a	2	04-0					
	ad Deflection	L/999 (0.0	,	n\a		n\a	5	04-0					
	eg. Defl.	L/999 (-0.0	,	n\a		n\a	2	10-0					
Max De	-	0.029"	,	n\a		n\a	2	04-0		Dicel	osure		
Span /		11.5										Cascade S	offuero io
		-										Cascade S	
					% Allow	% Allow						ent (EULA).	
	ng Supports		Value		Support	Member	Mater					nd accuracy	
B1	Wall/Plate	4-3/8" x 2"	189		5.1%	16.8%		ecified	_			l and verifie r or other a	•
B2	Beam	5-3/4" x 2"	484	lbs	10.4%	19.2%		ecified				its adequad	
B3	Wall/Plate	4-3/8" x 2"	164	lbs	4.4%	14.5%	Unspe	ecified				n such outp	
												bility for a p	articular is based on
Notes	5											cepted desig	
		ecified (L/360) T	otal load de	eflection	criteria.							alysis meth	
-	-	ecified (L/480) L										se Cascade products n	
•		(1") Maximum <sup>-</sup>								0		current Inst	
-	-	(0.75") Maximu											g codes. To
-	-	based on IBC 2										Guide or a	
	-	sed on 3/4" thic		athing g	lued and na	ailed to meml	ber.				ns, please	e call (800)2 1.	232-0100
-		Service Condition		20						201010	canadion		
-	-	nember is fully b										RAMER®	
												RIM BOAF ™, BC Floo	RD™, BCl® , prValue®
												ERSA-RIM	



## Single 9-1/2" BCI® 5000s-1.8

PASSED

ENGINEERED WOOD PRODUCTS												
BC CALC® Membe Build 8014	er Report				<b>J9-16" O.C.</b> DCS   Repetiti		•		De	ecember	22, 2021	10:31:03
Job name: Address:	Lot 323 Park	Ridge			File name Descriptio		ot 323 Pa oundatio	-	e.mmdl Joists∖J9⋅	-16" O.C	.(i1050)	
City, State, Zip:					Specifier:						(	
Customer:	KC-Truss & F	Panel			Designer		on Happ	el				
Code reports:	ESR-1336				Company				MD - Lee	's Summ	nit	
						3						
	+ + + +		+ +	+ +	↓ 1 ↓ ↓ .		+ +	+ +	↓ 2 ↓ ↓	+ +	+ +	
						· · ·	· · ·	· ·	• •	· ·		
× /												
B1		09-04-14				B2			05-08	-14		B3
			Total H	orizontal Pi	roduct Length		2					
Reaction Sum	mary (Down <sub>Live</sub>		OS) ead	:	Snow	Ň	Vind		Roo	f Live		
B1, 4-3/8"	217 / 7	4	9/0									
B2, 5-3/4"	476 / 0		03 / 0									
B3, 4-3/8"	143 / 54	9	0/0									
Load Summar	у						Live	Dead	Snow	Wind	Roof Live	ocs
Tag Description		Load Type	Ref.		End	Loc.	100%	90%	115%	160%	125%	
1 -		Jnf. Lin. (lb/ft		00-00-0		Тор	51	13				n\a
2 FC1 Floor De View Fill)		Unf. Lin. (lb/ft		09-06-1		Тор		26				n\a
3 12(i59)	(	Conc. Pt. (Ibs	) L	09-05-02	2 09-05-02	Тор		9				n∖a
Controls Sum	mary Value		% Allow	/able	Duration	Case	Loca	tion				
Pos. Moment	474 ft	-lbs	17.4%		100%	2	04-0	2-07				
Neg. Moment	-472 f		17.3%		100%	1	09-0					
End Reaction	266 lb		23.6%		100%	2	00-0					
Int. Reaction	679 lb		26.9%		100%	1	09-0					
End Shear	243 lb		16.4%		100%	2	00-0					
Cont. Shear	328 lb		22.2%		100%	1	09-0					
Total Load Deflecti Live Load Deflection		(0.04")	n∖a n∖a		n∖a n∖a	2 5	04-0 04-0					
Total Neg. Defl.		(0.034") (-0.001")	n∖a		n\a	2	10-0					
Max Defl.	0.04"	(-0.001)	n∖a		n\a	2	04-0					
Span / Depth	11.5		ma		ind.	-	010		Discl	osure		
				% Allow	% Allow				Use of t	he Boise	Cascade So ns of the Ei	
Bearing Suppo		/) Val	ue	Support	Member	Materi	al		License	Agreeme	ent (EULA).	
B1 Wall/Pla			6 lbs	7.1%	23.6%	Unspe					nd accuracy and verifie	
B2 Beam	5-3/4" x 2		9 lbs	14.5%	26.9%	Unspe					r or other a	
B3 Wall/Pla	ite 4-3/8" x 2	23	3 lbs	6.3%	20.7%	Unspe	ecified		anyone	relying oi	ts adequac	ut as
Notes									applicat	ion. The o		is based on
Design meets Use Design meets Use	r specified (L/48	0) Live load o	leflection	criteria.					properti	es and ar	epted designalysis methes se Cascade	nods.
Design meets arbit											products m	
Design meets arbit				on criteria.							current Insta able buildin	g codes. To
BC CALC® analys			aathina a	luad and n	ailed to mam						Guide or a	
Composite El value Design based on E			eaunny g						•	ns, please nstallatior	e call (800)2 1.	32-0788
Calculations assun	-										RAMER®	A.IS™
									ALLJOIS	ST® , BC	RIM BOAR	RD™, BCI® ,
											™, BC Floo ′ERSA-RIM	

	Boise Cascade <sup>®</sup> ENGINEERED WOOD PRODUCTS				ush Beam	s\B1_2(i7?		® 2.0 31(					ASSED
	CALC® Member I 8014	r Report	i oundat		Dry   1 spar	•	.0) (1	iusii Deal	,	D	ecembei	r 22, 202	21 10:31:03
Addr	name: ress: State, Zip:	Lot 323 Par	rk Ridge			File name Description Specifier:	on:	Lot 323 Pa Foundation			31-2(i728	8)	
	omer: e reports:	KC-Truss & ESR-1040	، Panel			Designer: Company		Don Happ Boise Cas		/ID - Lee	's Sumn	nit	
				3 ↓							↓ 4 ↓ ↓ ↓ ↓		
} B1						07-04							
フヘコ					rizontal Pro	duct Length	= 16-0	07-04					B2
			n / Uplift) (lbs)	)		Ū	= 16-0			Roo	f Live		B2
<b>Beari</b> 31, 4		nary (Dow Live 602 / 0 606 / 0		) 1 1 / 0		duct Length	= 16-0	07-04 Wind		Roo	f Live		B2
<b>Beari</b> 31, 4 32, 4 <b>_0a</b>	ing 1-3/8" 1-3/8" d Summary	Live 602 / 0 606 / 0	<b>n / Uplift) (Ibs)</b> Dead 1284 1015	4 / 0 5 / 0	Sr	iow		Wind Live	Dead	Snow	Wind	Roof Live	B2 Tributar
<u>Beari</u> 31, 4 32, 4 <b>_Oa</b>	ing 1-3/8" 1-3/8" d Summary Description	Live 602 / 0 606 / 0	n / Uplift) (Ibs) Dead 1284 1015 Load Type	) 1 1 / 0	Sr Start	iow End	Loc.	Wind	90%				Tributar
31, 4 32, 4 20 <b>.00</b>	ing 1-3/8" 1-3/8" d Summary	Live 602 / 0 606 / 0	n / Uplift) (Ibs) Deac 1284 1015 Load Type Unf. Lin. (Ib/ft)	) 4 / 0 5 / 0 Ref.	Sr	iow		Wind Live		Snow	Wind	Live	
6eari 31, 4 32, 4 -03 -03	ing 1-3/8" 1-3/8" d Summary Description	Live 602 / 0 606 / 0	n / Uplift) (Ibs) Dead 1284 1015 Load Type	) 4 / 0 5 / 0 <u>Ref.</u> L	Sr Start 00-00-00	End 16-07-04	<u>Loc.</u> Тор	Wind Live	<b>90%</b> 10	Snow	Wind	Live	Tributar
<b>Beari</b> 31, 4 32, 4 <b>_0a</b>	ing I-3/8" I-3/8" <b>d Summary</b> Description Self-Weight -	Live 602 / 0 606 / 0	<b>n / Uplift) (Ibs)</b> <u>Deac</u> 1284 1015 <u>Load Type</u> Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft)	) 4 / 0 5 / 0 <u>Ref.</u> L L	Start 00-00-00 00-04-06	End 16-07-04 16-04-14	<b>Loc</b> . Тор Тор Тор	Wind Live 100%	<b>90%</b> 10 57	Snow	Wind	Live	<b>Tributar</b> 00-00-00 n\a

	View Fill)							
5	16(i63)	Unf. Lin. (lb/ft)	L	11-06-10	12-04-06	Тор	211	144
6	B8-2(i858)	Conc. Pt. (lbs)	L	11-08-06	11-08-06	Front	124	49
7	2(i52)	Conc. Pt. (lbs)	L	00-02-10	00-02-10	Тор	193	188

n∖a n∖a n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	6513 ft-lbs	46.7%	100%	1	08-11-07
End Shear	1479 lbs	23.4%	100%	1	15-05-06
Total Load Deflection	L/319 (0.602")	75.3%	n∖a	1	08-05-09
Live Load Deflection	L/1003 (0.191")	35.9%	n∖a	2	08-07-09
Max Defl.	0.602"	60.2%	n∖a	1	08-05-09
Span / Depth	20.2				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	4-3/8" x 3-1/2"	1886 lbs	29.0%	16.4%	Unspecified
B2	Wall/Plate	4-3/8" x 3-1/2"	1621 lbs	24.9%	14.1%	Unspecified

#### Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009. Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 11-02-04.



### Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

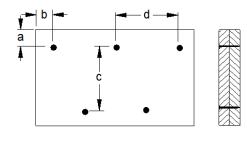


Foundation\Flush Beams\B1-2(i728) (Flush Beam) Dry | 1 span | No cant.

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Flush Beams\B1-2(i728)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

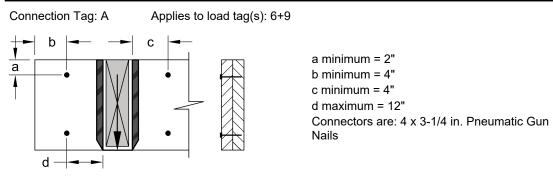
### **Connection Diagram: Full Length of Member**



a minimum = 2" c = 5-1/2" b minimum = 3" d = 24"

Calculated Side Load = 0.0 lb/ft Connectors are: 3-1/4 in. Pneumatic Gun Nails

#### **Connection Diagrams: Concentrated Side Loads**



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	oise Cascade <sup>®</sup>				Doub	le 1	-3/4	" х	( <b>9</b> -'	1/2'	' V	ER	SA-	·L/	<b>4M</b> (	B 2.	.0 3 <sup>,</sup>	10	0 SF	)					P/	ASS	SED
	GINEERED WOOD PRODUCTS				Fo	ound	atio	n\FI	ush	Bea	am	s\B′	1-2(i	75	2) (F	lus	h Be	am	ı)								
BC C/ Build	ALC® Member 8014	Repo	rt										o car		, (				,		De	ece	embe	er 22,	202	1 10	:31:03
Job na Addre	ame:	Lot 3	23 Pa	ark R	idge								e nar escrip		-				rk Rid ∖Flush	-		31-	2(i75	52)			
City, S	State, Zip:												becifie										`	,			
Custo		KC-T	russ 8	& Pa	nel							De	esign	er:		Doi	n Hap	pe	l								
Code	reports:	ESR-	1040									Co	ompa	ny:		Boi	se Ca	asc	ade E	MD	- Lee	's (	Sumr	mit			
						<b>,</b> ↓	+	+	+	+	+	¥	2	•	<u> </u>	+	+		<b>· ·</b>	+		_					
+		$\frac{+}{\perp}$	<u> </u>	+		<u>+</u>	+	+	+	+		1 ↓ 0 ↓	+	+	+ 	+	+	+		+	<u>+</u>	+	<u>+</u>	+	+	+	<b>+</b>
	• • •	• •		-	• •		•	-	-	-	-	• •	•	•			•		•	-	<u> </u>	-		•	<u> </u>	-	<b>—</b>
<b>₩</b> ≠───																											<b>Ⅲ</b>
B1											16-0	08-04															B2
								al Ho	orizo	ntal I	Proc	duct	Leng	th =	= 16-0	08-04	Ļ										
	ction Summ			/n /	Uplift		-				<b>6</b>					14/	in d				Dee	£ 1	lu a				
Bearin B1, 4'			ve 21/0				ead 6 / 0				Sn	ow					ind				Roo	<u>T L</u>	ive				
B2, 5-			24/0				94/0																				
, .																											
Load	d Summary																Live		Dead	s	now	V	Vind	Ro	of	Т	ributary
	•							Def		<b>C 44</b>			<b>F</b> in al				4000		00%		4 = 0/		CO0/	Liv			-
	Description Self-Weight				ad Type of. Lin. (			Ref. L		Start )-00-			<u>End</u> -08-0	4	Loc. Top		100%	)	<b>90%</b> 10	1	15%	1	60%	12	5%	00	0-00-00
	FC1 Floor Deck	kina (F	lan		nf. Lin. (	· ·		L		)-00-			-08-0		Тор		27		7							00	n∖a
	View Fill)	5.		-		,																					
	FC1 Floor Deck	king (F	lan	Ur	nf. Lin. (	lb/ft)		L	04	-08-	00	13-	-02-0	0	Тор				13								n\a
`	View Fill)																										
Cont	trols Summa	arv	Valu				%Δ	llow	able		п	urati	ion		C	ase	Lo	rati	ion								
	Noment	<u> </u>		34 ft-	lbs		12.1					00%				1			-10								
End S			364	lbs			5.89					00%				1			-00								
Total	Load Deflectior	ו	L/12	248	(0.154"	)	19.2	2%			n۱	a				1	08-	-04	-10								
Live L	oad Deflection		L/99	99 (0	).079")		n∖a				n۱	∖a				2	08-	-04	-10								
Max D			0.15				15.4	1%			n۱	∖a				1	08-	-04	-10								
Span	/ Depth		20.2	2																							
Bear	ring Suppor	ts Di	m. (L)	xW)		Valu	le		% A Sup	llow port			Allow mber		Ма	teria	1										
B1	Beam		' x 3-1				lbs		7.19			3.8					ified										
B2	Beam	5-	3/4" >	x 3-1	/2"	419	lbs		5.1%			2.8				•	cified										
Note	s																										
•	n meets Code i		•		,																						
-	n meets Code I		•																								
-	n meets arbitra	,																									
Desig	n meets arbitra	ry (0. <i>1</i>	′5¨)IV	ıaxır	num liv	e Ioa	a deti	ection	on ci	riteria	a.																

BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition. Calculations assume unbraced length of Top: 00-00-00, Bottom: 15-10-08.



### Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

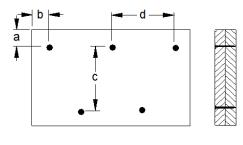


Foundation\Flush Beams\B1-2(i752) (Flush Beam) Dry | 1 span | No cant.

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Flush Beams\B1-2(i752)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

#### **Connection Diagram: Full Length of Member**



a minimum = 2" c = 5-1/2" b minimum = 3" d = 24"

Calculated Side Load = 0.0 lb/ft Connectors are: 3-1/4 in. Pneumatic Gun Nails

#### Disclosure

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	Cascade <sup>®</sup>			D	oub	ole 1	-3/4'	' x	9-1/	2" \	/ER	SA-I		® 2	.0 31	00 SF	)			P	ASSED
ENGINEER	RED WOOD PRODUCTS				Fo	ound	ation	\Flu	ish B	Beam	ıs\B1	1-2(i8	75) (F	lus	h Bea	am)					
BC CALC Build 801	C® Member 4	Repo	ort					[	Dry   1	l spa	n   No	o cant						De	cembe	r 22, 202	21 10:31:03
Job name	e:	Lot 3	23 Pai	rk Rid	lge						File	e nam	e:			Park Rid	•				
Address:												script		Foi	undati	on∖Flush	n Bea	ms∖B	1-2(i87	5)	
City, Stat Custome	-	KC T	russ 8	Don								ecifie signe		Do	n Hap	nol					
Code rep		-	-1040	xran	CI							mpan			-	scade E	MD -	Lee'	s Sumr	nit	
													<b>J</b> -								
						<b>,</b> +	¥	¥	¥ .	↓ ↓	<b>,</b> +	2	+ +	¥	· +	+ +	¥				
+ +	· ↓ ↓	+ +	+	+	+ +	+	+	+	+ •		1 ↓ 0 ↓	+	+ +	+	+	+ +	+	+	+ +	+ +	<b>↓</b> ↓
* *	* *	* *	*	*	* *	*	*	*	* *	* *	• •	*	* *	*	*	* *	*	*	* *	* *	* *
<mark>Ⅲ</mark> ⊀																					
B1											6-08-04										B2
	•		(D			N 711-		l Hoi	rizonta	al Pro	oduct	Lengt	h = 16-0	08-04	4						
Reaction Bearing	on Summ	-	(DOW ive	'n / U	plitt	De (ID) (I	•			s	now			w	/ind			Roof	Live		
B1, 4"			21/0				7/0											11001	LIVE		
B2, 5-3/4	"	2	24 / 0			19	8 / 0														
Load S	ummary														Live	Dead	Sr	low	Wind	Roof Live	Tributary
Tag Des	cription				d Type		R	ef.	St	art		End	Loc.		100%	90%	11	5%	160%	125%	
	-Weight				Lin.	` '	L			0-00		08-04				10					00-00-00
Viev	l Floor Decl w Fill)			Unf.	Lin.	(lb/ft)	L		00-0	0-00	16-	08-04	•		27	7					n∖a
	l Floor Decl w Fill)	king (F	Plan	Unf.	Lin.	(lb/ft)	L		04-0	8-00	13-	02-00	Тор			13					n\a
	,									_			-								
Pos. Mor	Is Summ	ary	<b>Valu</b>	ie 5 ft-lb			% All 12.29		ble		<u>Durati</u> 100%			ase 1		ation 04-10					
End Shea			368		3		5.8%				100%			1		05-00					
	d Deflectio	n		233 (0	.156"	)	19.59				n∖a			1		04-10					
Live Load	d Deflection	1	L/99	99 (0.0			n∖a			r	n∖a			2	08-	04-10					
Max Defl			0.15				15.69	%		r	n∖a			1	08-	04-10					
Span / D	epth		20.2	2																	
								0	% Allo		0/ <b>A</b>	llow									
Bearing	g Suppor	rts <sub>D</sub>	im. (Lx	(W)		Valu	e		% Allo Suppo			nber	Ма	teria	l						
B1	Beam		" x 3-1			408	lbs		7.2%		3.9		Un	speo	cified						
B2	Beam	5	-3/4" x	3-1/2	<u>2</u> "	423	lbs	5	5.2%		2.8	%	Un	speo	cified						
Notes																					
	neets Code	minim	um (I /	/240)	Total	load	deflec	tion	criter	ia.											
0	neets Code		•	,																	
Design m	neets arbitra	ary (1"	) Maxii	mum	Total	load	deflec	tion	criteri	ia.											
Design m	neets arbitra	ary (0.	75") M	aximu	um liv	e load	d defle	ectio	n crite	eria.											

BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition. Calculations assume unbraced length of Top: 00-00-00, Bottom: 15-10-08.



### Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

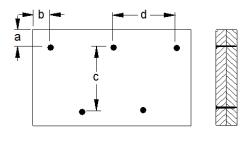


Foundation\Flush Beams\B1-2(i875) (Flush Beam) Dry | 1 span | No cant.

December 22, 2021 10:31:03

Build 8014	•		
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Flush Beams\B1-2(i875)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

#### **Connection Diagram: Full Length of Member**



a minimum = 2" c = 5-1/2" b minimum = 3" d = 24"

Calculated Side Load = 0.0 lb/ft Connectors are: 3-1/4 in. Pneumatic Gun Nails

#### Disclosure

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	INGINEERED WOOD PRODUCTS		Founda			•	5) (Flus	sn Bean	1)				
	ALC® Member Re	eport		I	Dry   1 span	n   No cant.				De	ecember	22, 202	1 10:31:03
	8014 ame: Lo	ot 323 Par	k Ridae			File name	· Io	ot 323 Pa	rk Ridae	mmdl د			
Addre		1. 020 T ai	K Nuge			Descriptio		oundation			32-3(i86	5)	
	State, Zip:					Specifier:						-)	
	•	C-Truss &	Panel			Designer:	Do	on Happe	l				
Code	reports: ES	SR-1040				Company	: Вс	oise Caso	ade BN	1D - Lee	's Summ	nit	
4	<u>↓ ↓ ↓ ↓</u> ↓ ↓ ↓ ↓	↓ ↓ · ↓ ↓			$\begin{array}{c} \bullet \bullet \bullet \bullet \\ \hline \bullet \bullet$	$\begin{array}{c}3\\2\\1\\1\\0\\0\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1$			<b>↓</b> ↓	↓ ↓ ↓	, † . † .	↓ ↓ ↓ ↓	↓ ↓ ↓ ↓
lea	ction Summar			5)	rizontal Proc	-				Boo	flive		<mark>───</mark> → B2
earii	ng	<b>y (Dow</b> i Live 233 / 0	Dea	5)	rizontal Proc			12 Wind		Roo	f Live		—∕ B2
<b>eari</b> 1, 5		Live	Dea 443	S) ad	rizontal Proc	duct Length				Roo	f Live		—↓ B2
<b>Rea</b> iearii 1, 5 2, 4	ng -3/4"	Live 233 / 0	Dea 443	<b>5)</b> ad 3 / 0	rizontal Proc	duct Length			Dead	Roo	f Live Wind	Roof	B2
earin 1, 5 2, 4 <b>0</b> a	ng -3/4" -3/8"	Live 233 / 0	Dea 443	<b>5)</b> ad 3 / 0	rizontal Proc	duct Length		Wind	Dead 90%			Roof Live 125%	
earin 1, 5 2, 4 0a0	ng -3/4" -3/8" d Summary	Live 233 / 0	<b>Dea</b> 443 409	<b>5)</b> ad 3 / 0 9 / 0	rizontal Proc	duct Length now	v	Wind Live		Snow	Wind	Live	
earin 1, 5 2, 4 <b>0</b> a(	ng -3/4" -3/8" d Summary Description	Live 233 / 0 236 / 0	Load Type	<b>5)</b> ad 3 / 0 9 / 0 Ref.	rizontal Proc Sn Start	duct Length now End	V Loc.	Wind Live	90%	Snow	Wind	Live	Tributar
earin 1, 5 2, 4 Oa(	ng -3/4" -3/8" d <b>Summary</b> <u>Description</u> Self-Weight FC1 Floor Decking	Live 233 / 0 236 / 0	Load Type Unf. Lin. (lb/ft)	<b>5)</b> ad 3 / 0 9 / 0 <b>Ref.</b> L	rizontal Proc Sn Start 00-00-00	duct Length now End 17-09-12	Loc. Top	Wind Live 100%	<b>90%</b> 14	Snow	Wind	Live	Tributar
earii 1, 5 2, 4 0a(	ng -3/4" -3/8" d Summary Description Self-Weight FC1 Floor Decking View Fill) FC1 Floor Decking	Live 233 / 0 236 / 0	Load Type Unf. Lin. (lb/ft) Unf. Lin. (lb/ft)	<b>5)</b> ad 3 / 0 9 / 0 <b>Ref.</b> L L	rizontal Proc Sn <u>Start</u> 00-00-00 00-02-14	End 17-09-12 17-09-12	<b>Loc.</b> Тор Тор	Wind Live 100%	<b>90%</b> 14 7	Snow	Wind	Live	<b>Tributar</b> 00-00-0 n\
<b>ear</b> in 1, 5 2, 4 <b>Oa</b> (	ng -3/4" -3/8" d Summary Description Self-Weight FC1 Floor Decking View Fill) FC1 Floor Decking View Fill)	Live 233 / 0 236 / 0	Load Type Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft)	<b>5)</b> ad 3 / 0 9 / 0 <b>Ref.</b> L L L	rizontal Proc Sn <u>Start</u> 00-00-00 00-02-14 05-10-14	End 17-09-12 17-09-12 11-10-14	<b>Loc.</b> Тор Тор Тор	Wind Live 100%	<b>90%</b> 14 7 11	Snow	Wind	Live	<b>Tributar</b> 00-00-0 n\ n\
Read Bearin 31, 5 32, 4 -Oad	ng -3/4" -3/8" d Summary Description Self-Weight FC1 Floor Decking View Fill) FC1 Floor Decking View Fill) 44(i91)	Live 233 / 0 236 / 0	Load Type Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft)	<b>5)</b> ad 3 / 0 9 / 0 <b>Ref.</b> L L L	rizontal Proc Sn <u>Start</u> 00-00-00 00-02-14 05-10-14 06-02-06	End 17-09-12 17-09-12 11-10-14 11-07-06	<u>Loc.</u> Тор Тор Тор Тор	Wind Live 100%	<b>90%</b> 14 7 11 57	Snow	Wind	Live	<b>Tributar</b> 00-00-00 n\

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	3295 ft-lbs	15.7%	100%	1	08-10-14
End Shear	593 lbs	6.3%	100%	1	01-03-04
Total Load Deflection	L/921 (0.223")	26.1%	n∖a	1	08-10-14
Live Load Deflection	L/999 (0.068")	n\a	n∖a	2	08-10-14
Max Defl.	0.223"	22.3%	n∖a	1	08-10-14
Span / Depth	21.6				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	5-3/4" x 5-1/4"	676 lbs	5.5%	3.0%	Unspecified
B2	Wall/Plate	4-3/8" x 5-1/4"	645 lbs	6.6%	3.7%	Unspecified

#### Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 16-11-10.



### Triple 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

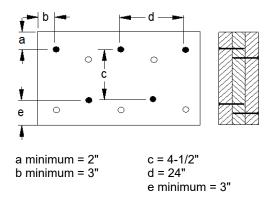


Foundation\Flush Beams\B2-3(i865) (Flush Beam) Dry | 1 span | No cant.

December 22, 2021 10:31:03

Build 8014	·		
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Flush Beams\B2-3(i865)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

### **Connection Diagram: Full Length of Member**



Calculated Side Load = 0.0 lb/ft Nailing applies to both sides of the member Connectors are: 3-1/4 in. Pneumatic Gun Nails

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()		Triple 1-3	/4" x 9	9-1/2" VE	ERSA-L/	<b>AM</b> ®	2.0 310	0 SP			P	ASSED
		Foundat		ush Beam		68) (F	lush Bear	n)				
	CALC® Member Report			Dry   1 spar	n   No cant.				De	ecembe	r 22, 202	1 10:31:03
	d 8014											
	name: Lot 323 Pa	ark Ridge			File name		Lot 323 Pa			//		
	ress:				Descriptio		Foundatio	n∖Flush l	Beams\E	82-3(196	8)	
	State, Zip:				Specifier:							
-	tomer: KC-Truss				Designer		Don Happ					
Cod	e reports: ESR-1040				Company	/:	Boise Cas	cade BN	/ID - Lee	's Sumn	nit	
		5					6					
$\sqrt{4}$	7		↓ ↓	$\downarrow \downarrow \downarrow$	3↓↓	<b>↓</b> ↓	<b>↓</b>					
-	+ + + + +	$\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$	+ +	$\downarrow$ $\downarrow$ $\downarrow$	2	+ +	+ +	↓ ↓	↓ ↓	+ +	+ +	+
		+ + + + +	<u> </u>	<u>↓ ↓ ↓</u>	1 4 4	+	<u>+ + +</u>	<u> </u>	· • •	<u> </u>	<u>+ + </u>	<b>↓</b> ↓
	+ + + + + + +	+ + + +	+ +	+ + +	0 🖌 🗼	+ +	+ +	+ +	+ +	+ +	+ +	+ +
/─ B1				17-	09-12							B2
BI			Total Ho	rizontal Pro	duct Lenath	= 17-0	9-12					BZ
Rea	action Summary (Dov				j							
Bear		Dead		Sr	now		Wind		Roo	f Live		
B1,	5-3/4" 233 / 0	) 730	/ 0									
32, 4	4-3/8" 236 / 0	703	/ 0									
Loa	ad Summary						Live	Dead	Snow	Wind	Roof	Tributary
Гад	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	Live 125%	
)	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	17-09-12	Тор		14				00-00-00
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	17-09-12	Тор	27	7				n\a
2	42(i89)	Unf. Lin. (lb/ft)	L	00-04-14	17-05-06	Тор		57				n\a
3	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	05-10-14	11-10-14			5				n∖a
4	8(i53)	Conc. Pt. (lbs)	L	00-03-02	00-03-02	Тор		22				n\a
5	43(i92)	Conc. Pt. (lbs)	L	06-00-10	06-00-10			18				n\a
	· · · ·	( /				1°		-				

11-09-02 11-09-02 Top

20

n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	4036 ft-lbs	19.3%	100%	1	08-10-14
End Shear	839 lbs	8.8%	100%	1	01-03-04
Total Load Deflection	L/726 (0.282")	33.1%	n∖a	1	08-10-14
Live Load Deflection	L/999 (0.068")	n∖a	n∖a	2	08-10-14
Max Defl.	0.282"	28.2%	n∖a	1	08-10-14
Span / Depth	21.6				

L

Conc. Pt. (lbs)

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	5-3/4" x 5-1/4"	962 lbs	7.8%	4.2%	Unspecified
B2	Wall/Plate	4-3/8" x 5-1/4"	939 lbs	9.6%	5.5%	Unspecified

#### Notes

45(i90)

6

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 16-11-10.



### Triple 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

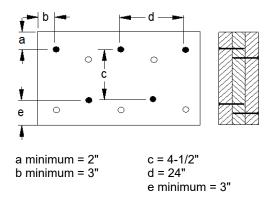


Foundation\Flush Beams\B2-3(i968) (Flush Beam) Dry | 1 span | No cant.

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Flush Beams\B2-3(i968)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

### **Connection Diagram: Full Length of Member**



Calculated Side Load = 0.0 lb/ft Nailing applies to both sides of the member Connectors are: 3-1/4 in. Pneumatic Gun Nails

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Boise Cascade® ENGINEERED WOOD PRODUCTS		
--------------------------------------------	--	--

### Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

Dry | 1 span | No cant.



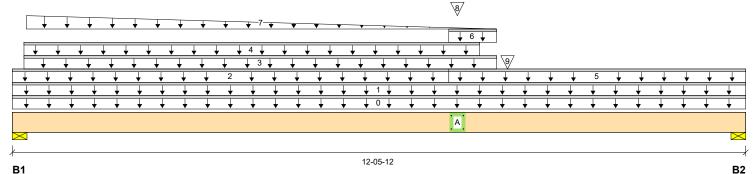
Foundation\Flush Beams\B3-2(i1051) (Flush Beam)

Wind

Roof Live

December 22, 2021 10:31:03

Code reports.	2314-1040	Company.	Doise Cascade DMD - Lee's Summit
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit
Customer:	KC-Truss & Panel	Designer:	Don Happel
City, State, Zip:		Specifier:	
Address:		Description:	Foundation\Flush Beams\B3-2(i1051)
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Build 8014			



#### Total Horizontal Product Length = 12-05-12

Snow

Reaction Summary (Down / Uplift) (Ibs) Bearing Live Dead

Dearing	LIVE	Deau	
B1, 2-3/8"	473 / 0	563 / 0	
B2, 4-3/8"	569 / 0	441/0	

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	12-05-12	Тор		10				00-00-00
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	12-05-12	Тор	31	8				n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	07-05-02	Тор	6	2				n\a
3	14(i60)	Unf. Lin. (lb/ft)	L	00-02-06	08-02-14	Тор		57				n\a
4	14(i60)	Unf. Lin. (lb/ft)	L	00-02-06	07-11-06	Тор	20	8				n\a
5	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	07-05-02	12-05-12	Тор	23	6				n\a
6	14(i60)	Unf. Lin. (lb/ft)	L	07-05-02	08-02-14	Тор	251	97				n\a
7	FC1 Floor Decking (Plan	Trapezoidal (lb/ft)	L	00-02-14		Тор		12				n\a
	View Fill)				08-02-13			0				
8	B8-2(i858)	Conc. Pt. (lbs)	L	07-06-14	07-06-14	Back	144	54				n\a
9	18(i67)	Conc. Pt. (lbs)	L	08-05-02	08-05-02	Тор		53				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	3614 ft-lbs	25.9%	100%	1	07-02-11
End Shear	922 lbs	14.6%	100%	1	11-03-14
Total Load Deflection	L/793 (0.182")	30.3%	n∖a	1	06-02-10
Live Load Deflection	L/999 (0.093")	n\a	n∖a	2	06-03-13
Max Defl.	0.182"	18.2%	n∖a	1	06-02-10
Span / Depth	15.2				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	2-3/8" x 3-1/2"	1035 lbs	29.3%	16.6%	Unspecified
B2	Wall/Plate	4-3/8" x 3-1/2"	1011 lbs	15.5%	8.8%	Unspecified



### Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP



Foundation\Flush Beams\B3-2(i1051) (Flush Beam) Dry | 1 span | No cant.

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Flush Beams\B3-2(i1051)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

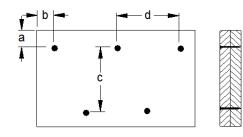
Design meets arbitrary (0.75") Maximum live load deflection criteria.

 $\operatorname{BC}\operatorname{CALC}\nolimits \ensuremath{\mathbb{R}}$  analysis is based on IBC 2009.

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 07-02-12.

### **Connection Diagram: Full Length of Member**



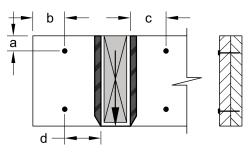
a minimum = 2" c = 5-1/2" b minimum = 3" d = 24"

Calculated Side Load = 0.0 lb/ft Connectors are: 3-1/4 in. Pneumatic Gun Nails

### **Connection Diagrams: Concentrated Side Loads**

Applies to load tag(s): 8+8

#### Connection Tag: A



a minimum = 2" b minimum = 4" c minimum = 4" d maximum = 12" Connectors are: 4 x 3-1/4 in. Pneumatic Gun Nails

#### Disclosure

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	Boise Cascade®		Doubl	e 1-3/4"	x 9-1/2"	VERSA-L	AM® 2	2.0 310	00 SP			P	ASSED
	ENGINEERED WOOD PRODUCTS		Foι	Indation	Flush Bear	ms\B4-2(i10	10) (Flu	sh Bea	m)			L	
	CALC® Member F 8014	Report			Dry   1 sp	oan   No cant.			-	De	ecember	22, 202	1 10:31:03
Job r	name:	Lot 323 Pa	ırk Ridge			File name	e: Lo	t 323 Pa	ark Ridg	e.mmdl			
Addr						Descripti		oundation	n∖Flush	Beams\E	84-2(i10 <sup>-</sup>	10)	
-	State, Zip:					Specifier			-1				
-		KC-Truss & ESR-1040	& Panel			Designer Company		on Happ		/ID - Lee'		nit	
Coue		ESK-1040				Company	/. DC			ND - Lee	s Summ	IIL	
7													
F		+ +	<u>↓ ↓ ↓</u>	<u>+ + +</u>	+ + +	$4 \downarrow \downarrow$ 3 \downarrow ↓	+ +	+ +	++	++	+ +	<u> </u>	
	<u>* * * *</u>	<u>* * *</u>	<u> </u>	· • •	••••		<u>+ +</u> + +	<u>+ +</u> + +	+++	• • • •	<u>+ +</u>	· • •	
		+ + +	+ + +	<b>↓</b> ↓	$\downarrow$ $\downarrow$ $\downarrow$	1 4 4	+ + -	+ +	+ +	+ +	+ +	<b>↓ ↓</b>	¥
	+ + + +	<u> </u>	+ + +	+ +	+ + +		+ + +	<b>, ,</b> ,	+ +	+ +	+ +	+ +	+ +
л В1						09-08-06							B2
51				Total	Horizontal P	roduct Length	= 09-08-0	6					02
<b>Rea</b> Beari	ction Summa	ary (Dow <sub>Live</sub>	/n / Uplift)	(Ibs) <sub>Dead</sub>		Snow	v	Vind		Roo	f Live		
	5-1/2"	298 / 0		708 / 0				-			-		
B2, 5	5-3/4"	534 / 0		854 / 0									
Loa	d Summary							Live	Dead	Snow	Wind	Roof Live	Tributary
Tag	Description		Load Type	R	ef. Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight		Unf. Lin. (I	,	00-00-0	0 09-08-06	Тор		10				00-00-00
1	FC1 Floor Decki View Fill)	ng (Plan	Unf. Lin. (I	b/ft) L	00-00-0	0 09-05-08	Тор	10	3				n\a
2	70(i429)		Unf. Lin. (I	,	00-01-0		Тор		57				n\a
3	FC1 Floor Decki View Fill)	ng (Plan	Unf. Lin. (I	b/ft) L	00-01-0	08 09-05-08	Тор	17	4				n\a
4	70(i429)		Unf. Lin. (I	,	00-02-1		Тор	36	14				n\a
5	70(i429)		Unf. Lin. (I	,	00-04-1		Тор		57				n∖a
6 7	E14(i40) 8(i53)		Conc. Pt. ( Conc. Pt. (		00-03-0	00-03-04 2 09-05-12		238	30 181				n∖a n∖a
'	0(155)		CONC. Pl. (	lbs) L	09-05-1	2 09-00-12	тор	230	101				II\d
Cor	trols Summa	i <b>ry</b> Valu	le	% All	owable	Duration	Case	Loca	tion				
Pos.	Moment	205	i0 ft-lbs	14.79		100%	1	04-1					
	Shear		lbs	11.99	6	100%	1	01-0					
	Load Deflection		99 (0.058")	n\a		n\a	1	04-1					
	Load Deflection		99 (0.018")	n∖a		n\a	2	04-1					
Max		0.0		n\a		n\a	1	04-1	0-02				
Spar	n / Depth	11.2	Z										
Bea	ring Support	S Dim (I)	xW)	Value	% Allow Support	% Allow Member	Materia	al					
B1	Wall/Plate	5-1/2" >		1006 lbs	12.3%	7.0%	Unspe						
B2	Beam	5-3/4" >		1388 lbs	17.0%	9.2%	Unspe						
Not													
	gn meets Code n												
	gn meets Code n	•	,										
	gn meets arbitrar	• • •											
	gn meets arbitrar CALC® analysis i	,		ivau uelle	cuon criteria								

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 08-09-02.



### Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

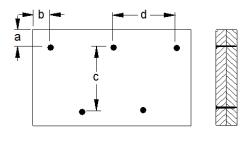


Foundation\Flush Beams\B4-2(i1010) (Flush Beam) Dry | 1 span | No cant.

December 22, 2021 10:31:03

Build 8014 Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Flush Beams\B4-2(i1010)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

#### **Connection Diagram: Full Length of Member**



a minimum = 2" c = 5-1/2" b minimum = 3" d = 24"

Calculated Side Load = 0.0 lb/ft Connectors are: 3-1/4 in. Pneumatic Gun Nails

#### Disclosure

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Boise Cascade*		Doub	le 1-3	/4" x	: 9-1/2" V	'ERSA-L	AM®	2.0 3	100 SP			P	ASSED
ENGINEERED WOOD PRODUCTS		Fo	undat	ion\Fl	ush Beam	s\B4-2(i73	81) (FI	ush Be	am)				
BC CALC® Member	Report				Dry   1 spar	•	, (		•	De	ecembei	r 22, 202	1 10:31:03
Build 8014													
Job name:	Lot 323 Par	rk Ridge				File name			Park Ridg		4.0/.70		
Address:						Description Specifier:		Founda	tion\Flush	Beams	34-2(173	1)	
City, State, Zip: Customer:	KC-Truss &	Panel				Designer		Don Ha	nnel				
Code reports:	ESR-1040					Company			ascade Bl	MD - Lee	's Sumn	nit	
· · ·													
$\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$	<b>, , , ,</b>	+ + +	+ +	+	$\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ 2	2 4 4 4	+	+ +	+ + -	+ + +	<b>·</b> •	+ +	↓ 3
$\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$	+ + +	+ + +	¥	↓ ↓	↓ ↓ 1	<b>↓ ↓</b>	↓ ↓	+ +	+ +	+ +	+ +	+ +	¥
	+ + +	+ + +	<u> </u>	+ +	+ + +	0 4 4	+ +	+ +	+ +	+ +	+ +	+ +	+ +
<b>X</b>													
k													
B1					09-	-05-12							B2
			Г	Total He	orizontal Pro	duct Length	= 09-0	5-12					
Reaction Summ		n / Uplift)								_			
Bearing B1, 4-3/8"	Live 250 / 0		Dead 189 /		S	now		Wind		Roo	f Live		
B1, 4-3/8 B2, 5-3/4"	23070		230/										
52, 0 0, 1	000,0		2007	U									
Load Summary								Live	Dead	Snow	Wind	Roof	Tributary
Tag Description		Load Type		Ref.	Start	End	Loc.	100	% 90%	115%	160%	Live 125%	
0 Self-Weight		Unf. Lin. (I		L	00-00-00	09-05-12	Тор		10				00-00-00
1 FC1 Floor Decl View Fill)	king (Plan	Unf. Lin. (I	lb/ft)	L	00-00-00	09-02-14	Тор	53	13				n\a
2 FC1 Floor Decl View Fill)	king (Plan	Unf. Lin. (I	lb/ft)	L	00-02-06	09-01-06	Тор		18				n\a
3 6(i54)		Conc. Pt.	(lbs)	L	09-03-02	09-03-02	Тор	60	43				n\a
Controls Summ	ary Valu	٩	0/	allow	ahle D	Juration	Ca	se lo	cation				
Pos. Moment		ft-lbs		.5%		00%	1		-08-03				
End Shear	347	lbs	5	.5%	1	00%	1	01	-01-14				
Total Load Deflection	n L/99	9 (0.025")	n	\a	n	\a	1	04	-08-03				
Live Load Deflection	L/99	9 (0.014")	n	\a	n	\a	2	04	-08-03				
Max Defl.	0.02	5"	n	\a	n	\a	1	04	-08-03				
Span / Depth	11.1												
Bearing Suppor	<b>ts</b> Dim. (Lx	(W)	Value		% Allow Support	% Allow Member	Mate	erial					
B1 Wall/Plate	<b>`</b>		438 lb	s	6.7%	3.8%		pecified					
B2 Beam	5-3/4" x	3-1/2"	533 lb	s	6.5%	3.5%	Uns	pecified					
Notes													
Design meets Code	minimum (L/	/240) Total	load de	flectior	n criteria.								
Design meets Code		,											
Design meets arbitra	• • •												
Design meets arbitra	• • •		e load d	leflection	on criteria.								
BC CALC® analysis	is pased on	IBC 2009.											

Design based on Dry Service Condition. Calculations assume unbraced length of Top: 00-00-00, Bottom: 08-07-10.



### Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

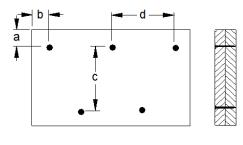


Foundation\Flush Beams\B4-2(i731) (Flush Beam) Dry | 1 span | No cant.

December 22, 2021 10:31:03

Build 8014	•		
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Flush Beams\B4-2(i731)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

#### **Connection Diagram: Full Length of Member**

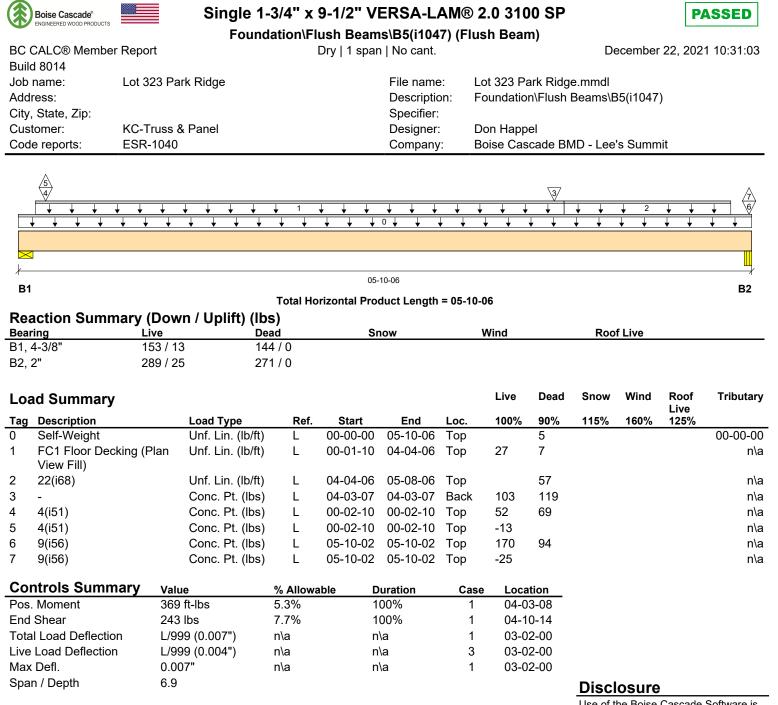


a minimum = 2" c = 5-1/2" b minimum = 3" d = 24"

Calculated Side Load = 0.0 lb/ft Connectors are: 3-1/4 in. Pneumatic Gun Nails

#### Disclosure

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Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material	
B1	Wall/Plate	4-3/8" x 1-3/4"	297 lbs	9.1%	5.2%	Unspecified	
B2	Beam	2" x 1-3/4"	560 lbs	39.1%	21.1%	Unspecified	

#### Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. BC CALC® analysis is based on IBC 2009. Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 03-10-04.

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

Boise Cascade" Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP PAS											ASSED		
	ENGINEERED WOOD PRODUCTS		Fou	Indation\F	lush Beam	s\B6-2(i10	13) (Flu	ush Bea	m)			L	
BC C	ALC® Member	Report				n   No cant.	, (		,	De	ecember	<sup>.</sup> 22, 202	1 10:31:03
Build	8014												
Job r	name:	Lot 323 Pa	ark Ridge			File name		ot 323 Pa	-				
Addr						Descriptio		oundatio	n∖Flush I	Beams\E	6-2(i10	13)	
-	State, Zip:					Specifier:							
-	omer:	KC-Truss &				Designer		on Happ			•		
Code	e reports:	ESR-1040				Company	/: B	oise Cas	cade BI	/ID - Lee	s Sumn	nit	
3/		,								<u> </u>		I	4
Ť	+ + +	$\downarrow$ $\downarrow$ $\downarrow$	+ + +	+ + +	+ + +	0 4 4	+ +	+ + •	· · ·	+ +	+ +	+ +	$\downarrow$ $\downarrow$
¥					04	4-01-08							
B1								~~					B2
Bee	ation Summ	any (Day	/n /llnlift)		lorizontal Pro	oduct Length	= 04-01-	08					
Beari	ction Summ	Live	m / Opint)	(IDS) Dead	s	now		Wind		Roo	f Live		
B1, 2		46 / 0		83 / 0									
B2, 3	8-1/2"	141/0		79/0									
Loa	d Summary							Live	Dead	Snow	Wind	Roof	Tributary
	Description		Load Type	Ref	. Start	End	Loc.	100%	90%	115%	160%	Live 125%	
0	Self-Weight		Unf. Lin. (Ik		00-00-00		Top	10070	10	11070	10070	12070	00-00-00
1	FC1 Floor Deck	king (Plan	Unf. Lin. (It	,	00-02-00		Top	13	3				n∖a
	View Fill)												
2	FC1 Floor Deck	king (Plan	Unf. Lin. (It	o/ft) L	03-10-00	04-01-08	Тор	16					n\a
~	View Fill)			11>	00.00.04	00 00 04	<b>T</b>	00					
3	-		Conc. Pt. ( Conc. Pt. (	,	00-00-04		Top	23 113	57 52				n∖a ¤\a
4	13(i62)			lbs) L	03-11-12	03-11-12	төр	115	52				n\a
Con	trols Summ	ary Valu	ue	% Allov	wable I	Duration	Case	e Loca	tion				
Pos.	Moment	46 f	ft-lbs	0.3%		100%	1	02-0	00-0				
End \$	Shear	26 I	lbs	0.4%		100%	1	00-1	1-08				
	Load Deflection		99 (0")	n∖a	1	n\a	1	02-0					
	Load Deflection		99 (0")	n∖a		n\a	2	02-0					
Max		0"		n∖a	ı	n\a	1	02-0	00-0				
Span	n / Depth	4.8											
					0/ 44	0/							
Bea	ring Suppor	ts Dim. (L	xW)	Value	% Allow Support	% Allow Member	Mater	ial					
B1	Beam	2" x 3-1		128 lbs	4.5%	2.4%		ecified					
B2	Wall/Plate			220 lbs	4.2%	2.4%	-	ecified					
Not	es												
	gn meets Code	minimum (L	./240) Total lo	oad deflectio	on criteria.								
Desi	n meets Code	minimum (l	/360) Live Io	ad deflection	n criteria								

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 03-08-00.



### Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

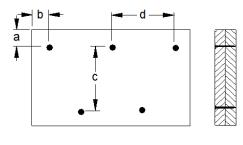


Foundation\Flush Beams\B6-2(i1013) (Flush Beam) Dry | 1 span | No cant.

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Flush Beams\B6-2(i1013)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

#### **Connection Diagram: Full Length of Member**

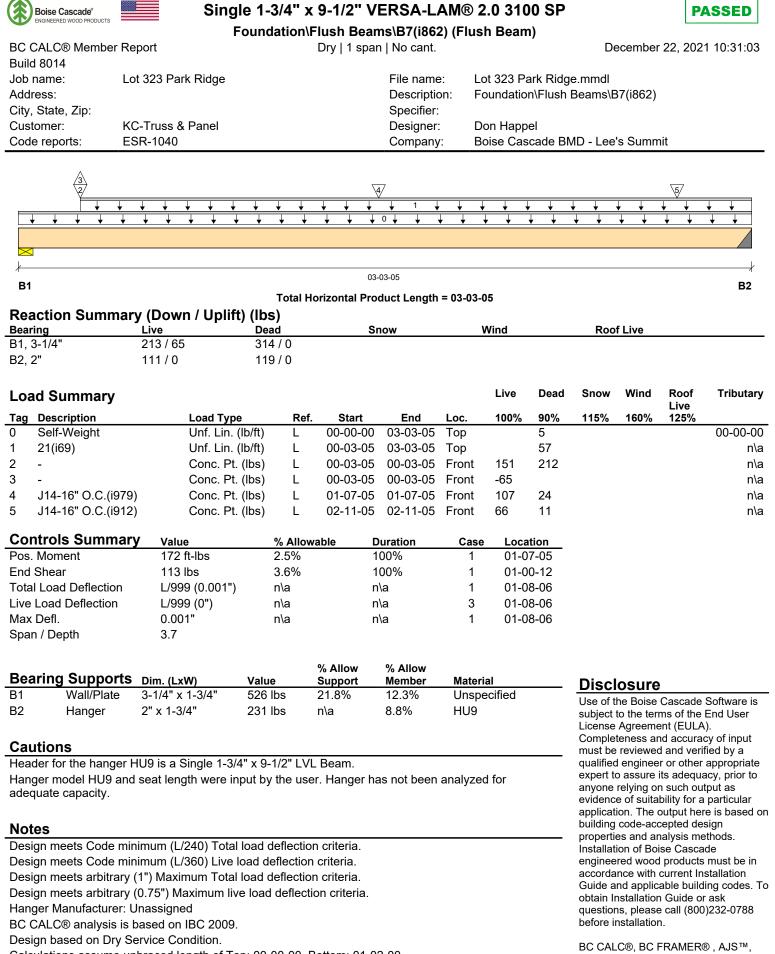


a minimum = 2" c = 5-1/2" b minimum = 3" d = 24"

Calculated Side Load = 0.0 lb/ft Connectors are: 3-1/4 in. Pneumatic Gun Nails

#### Disclosure

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Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-02-00.

ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

Boise Cascade® ENGINEERED WOOD PRODUCTS	Doub	ole 1-3/4" x	( 9-1/2" \	VERSA-L	AM® 2	2.0 310	00 SP			<b>P</b> .	ASSED
ENGINEERED WOOD PRODUCTS	F	oundation\F	lush Bear	ns\B8-2(i8	58) (Flus	sh Beai	m)			L	
BC CALC® Member	Report		Dry   1 spa	an   No cant.				De	ecembei	r 22, 202	21 10:31:03
Build 8014											
Job name:	Lot 323 Park Ridge			File name			ark Ridg			•	
Address:				Descriptio		oundatio	n∖Flush	Beams\E	38-2(185	8)	
City, State, Zip:				Specifier:			-1				
Customer: Code reports:	KC-Truss & Panel ESR-1040			Designer Company		on Happ		/ID - Lee	'e Sumn	ait	
Code reports.	E3R-1040			Company	·. DC			ID - Lee	s Summ	int int	
		$\sqrt{1}$					2/				
$\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$	+ + + + + +	$\cdot$ $\downarrow$ $\downarrow$ $\downarrow$	+ + +	0 4 4	+ + +	+ +	↓ ↓	↓ ↓	↓ ↓	+ +	↓ ↓
/			0	3-08-04							/
B1		Total H		oduct Length	- 03 08 0	4					B2
Reaction Summ	ary (Down / Uplif			oduct Length	- 03-08-0	14					
Bearing	Live	Dead	5	Snow	v	Vind		Roo	f Live		
B1, 4"	122 / 0	48 / 0									
B2, 4"	146 / 0	54 / 0									
Load Summary						Live	Dead	Snow	Wind	Roof Live	Tributary
Tag Description	Load Type	e Ref	Start	End	Loc.	100%	90%	115%	160%	125%	
0 Self-Weight	Unf. Lin.		00-00-00	03-08-04	Тор		10				00-00-00
1 J14-16" O.C.(i9	,	· · ·	01-04-05		Back	143	36				n\a
2 J14-16" O.C.(i9	70) Conc. Pt.	(lbs) L	02-08-05	6 02-08-05	Back	125	31				n\a
Controls Summ	ary Value	% Allov	vable	Duration	Case	Loca	tion				
Pos. Moment	177 ft-lbs	1.3%		100%	1	01-0					
End Shear	163 lbs	2.6%		100%	1	02-0	6-12				
Total Load Deflection	n L/999 (0.001")	n∖a		n∖a	1	01-1	0-03				
Live Load Deflection	L/999 (0")	n∖a		n∖a	2	01-1	0-03				
Max Defl.	0.001"	n∖a		n∖a	1	01-1	0-03				
Span / Depth	4.0										
Bearing Suppor	ts Dim. (LxW)	Value	% Allow Support	% Allow Member	Materia	al					
B1 Hanger	4" x 3-1/2"	171 lbs	2.2%	1.6%	HGUS						
B2 Hanger	4" x 3-1/2"	200 lbs	2.6%	1.9%	HGUS						
Cautions											
Header for the hange	er HGUS410 is a Doub	le 1-3/4" x 9-1	/2" LVL Bea	am.							
Hanger HGUS410 re	equires (46) 10d face n	ails, (16) 10d	oist nails.								
Notes											
Design meets Code	minimum (L/240) Total	load deflection	n criteria.								

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-03-05.



### Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

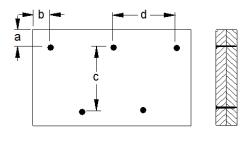


Foundation\Flush Beams\B8-2(i858) (Flush Beam) Dry | 1 span | No cant.

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	Foundation\Flush Beams\B8-2(i858)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

#### **Connection Diagram: Full Length of Member**



a minimum = 2" c = 5-1/2" b minimum = 3" d = 24"

Calculated Side Load = 89.5 lb/ft Connectors are: 3-1/4 in. Pneumatic Gun Nails

#### Disclosure

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### Single 9-1/2" BCI® 5000s-1 8



3

ENGINEERED WOOD PROD	NICTS	enigie							
		1st Floor\Floor Joi	sts\J1-16" O.C.(i1	004) (Floor Jois	st)				
BC CALC® Men	nber Report D	ry   2 spans   No cant	.   16 OCS   Repetiti	ve   Glued & nailed		Decembe	er 22, 20	)21 10	:31:0
Build 8014	·								
Job name:	Lot 323 Park Ridg	e	File name	: Lot 323 Park	Ridge.mm	dl			
Address:			Descriptio	n: 1st Floor\Flo	or Joists\J1	-16" O.C.	(i1004)		
City, State, Zip:			Specifier:						
Customer:	KC-Truss & Panel		Designer:	Don Happel					
Code reports:	ESR-1336		Company	Boise Casca	de BMD - L	ee's Sum	mit		
		$\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$	¥/ ↓ ↓ 1 ↓ ↓ ↓ <		+ + +	<b>, ↓ ↓</b>	+ +	+	
B1	12-05-03	_	2 ontal Product Length		4-10				В3
Reaction Su	mmary (Down / Up								
Bearing	Live	Dead	Snow	Wind	F	Roof Live			
B1, 2-7/16"	281 / 74	191 / 0							
B2, 3-1/2"	896 / 0	318 / 0							
B3, 2-3/8"	356 / 24	74 / 0							

Lo	ad Summary						Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	28-09-13	Тор	50	12				n\a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	05-01-15	Тор		25				n\a
3 4	67(i124) 51(i108)	Conc. Pt. (lbs) Conc. Pt. (lbs)	L L	05-04-03 12-05-02	05-04-03 12-05-02			94 9				n∖a n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1426 ft-lbs	52.3%	100%	3	21-11-07
Neg. Moment	-1762 ft-lbs	64.7%	100%	1	12-05-03
End Reaction	472 lbs	45.8%	100%	2	00-00-00
Int. Reaction	1214 lbs	57.8%	100%	1	12-05-03
End Shear	459 lbs	31.1%	100%	2	00-02-07
Cont. Shear	605 lbs	41.0%	100%	1	12-06-15
Total Load Deflection	L/646 (0.302")	55.8%	n\a	3	21-00-10
Live Load Deflection	L/734 (0.266")	65.4%	n∖a	6	21-00-10
Total Neg. Defl.	L/999 (-0.029")	n∖a	n\a	3	09-04-09
Max Defl.	0.302"	30.2%	n\a	3	21-00-10
Span / Depth	20.5				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	472 lbs	24.2%	45.8%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	1214 lbs	40.8%	57.8%	Unspecified
B3	Wall/Plate	2-3/8" x 2"	430 lbs	21.3%	41.9%	Unspecified

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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### Single 9-1/2" BCI® 5000s-1.8

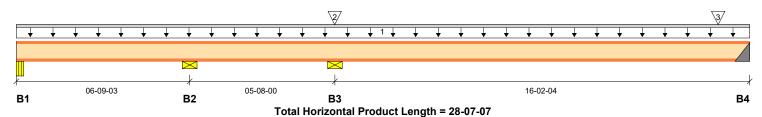


## 1st Floor/Floor Joists/J1-16" O.C.(i1005) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J1-16" O.C.(i1005)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 2-7/16"	184 / 12	43 / 0			
B2, 3-1/2"	391 / 85	28 / 0			
B3, 3-1/2"	885 / 0	237 / 0			
B4, 2"	361 / 3	158 / 0			

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	28-07-07	Тор	53	13				n∖a
2	51(i108)	Conc. Pt. (lbs)	L	12-05-02	12-05-02	Тор		9				n\a
3	53(i111)	Conc. Pt. (lbs)	L	27-04-11	27-04-11	Тор		76				n∖a

<b>Controls Summary</b>	Value	% Allowable	Duration	Case	Location
Pos. Moment	1513 ft-lbs	55.5%	100%	2	21-11-00
Neg. Moment	-1577 ft-lbs	57.9%	100%	5	12-05-03
End Reaction	519 lbs	52.2%	100%	2	28-07-07
Int. Reaction	1122 lbs	53.4%	100%	5	12-05-03
End Shear	508 lbs	34.4%	100%	2	28-05-07
Cont. Shear	630 lbs	42.7%	100%	5	12-06-15
Total Load Deflection	L/617 (0.313")	58.4%	n\a	2	21-00-07
Live Load Deflection	L/788 (0.245")	60.9%	n\a	7	21-00-07
Total Neg. Defl.	L/999 (-0.022")	n∖a	n∖a	2	10-00-14
Max Defl.	0.313"	31.3%	n\a	2	21-00-07
Span / Depth	20.3				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	227 lbs	11.6%	22.1%	Unspecified
DI	Dealli	2-1/10 XZ	227 105	11.070	ZZ.170	Unspecified
B2	Wall/Plate	3-1/2" x 2"	419 lbs	14.1%	19.9%	Unspecified
B3	Wall/Plate	3-1/2" x 2"	1122 lbs	37.7%	53.4%	Unspecified
B4	Hanger	2" x 2"	519 lbs	n∖a	52.2%	ITS2.06/9.5

### Cautions

Uplift of -57 lbs found at bearing B2.

Hanger model ITS2.06/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.



# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J1-16" O.C.(i1005) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

-16" O.C.(i1005)

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J1-16" O.C.(i100
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8

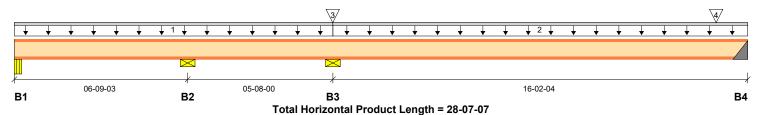


# 1st Floor\Floor Joists\J1-16" O.C.(i1014) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J1-16" O.C.(i1014)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



#### Reaction Summary (Down / Uplift) (lbs)

		(180)			
Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 2-7/16"	170 / 11	40 / 0			
B2, 3-1/2"	357 / 99	20 / 0			
B3, 3-1/2"	872 / 0	234 / 0			
B4, 2"	361 / 3	157 / 0			

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	12-05-03	Тор	49	12				n∖a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	12-05-03	28-07-07	Тор	53	13				n\a
3	51(i108)	Conc. Pt. (lbs)	L	12-05-02	12-05-02	Тор		9				n∖a
4	53(i111)	Conc. Pt. (lbs)	L	27-04-11	27-04-11	Тор		74				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1512 ft-lbs	55.5%	100%	2	21-11-00
Neg. Moment	-1571 ft-lbs	57.7%	100%	5	12-05-03
End Reaction	517 lbs	52.1%	100%	2	28-07-07
Int. Reaction	1106 lbs	52.7%	100%	5	12-05-03
End Shear	506 lbs	34.3%	100%	2	28-05-07
Cont. Shear	629 lbs	42.7%	100%	5	12-06-15
Total Load Deflection	L/617 (0.313")	58.3%	n\a	2	21-00-07
Live Load Deflection	L/788 (0.245")	60.9%	n∖a	7	21-00-07
Total Neg. Defl.	L/999 (-0.022")	n\a	n∖a	2	10-00-14
Max Defl.	0.313"	31.3%	n\a	2	21-00-07
Span / Depth	20.3				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	210 lbs	10.7%	20.4%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	377 lbs	12.7%	18.0%	Unspecified
B2	Uplift		79 lbs			
B3	Wall/Plate	3-1/2" x 2"	1106 lbs	37.2%	52.7%	Unspecified
B4	Hanger	2" x 2"	517 lbs	n∖a	52.1%	ITS2.06/9.5

#### Cautions

Uplift of -79 lbs found at bearing B2.

Hanger model ITS2.06/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.



# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J1-16" O.C.(i1014) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J1-16" O.C.(i1014)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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#### Single 9-1/2" BCI® 5000s-1.8



3

•	19	st Floor\Floor J	loists\J1-16	6" O.C.(i10	34) (Floor	Joist	)						
BC CALC® Membe	r Report Dry	/   2 spans   No ca	ant.   16 OCS	6   Repetitive	Glued & r	nailed		D	ecemb	er 22,	, 202	1 10:3	31:0
Build 8014													
Job name:	Lot 323 Park Ridge			File name:	Lot 323	Park	Ridge.r	nmdl					
Address:				Description:	1st Floo	or\Floo	r Joists	s\J1-1	6" O.C	.(i103	4)		
City, State, Zip:				Specifier:									
Customer:	KC-Truss & Panel			Designer:	Don Ha	ippel							
Code reports:	ESR-1336			Company:	Boise C	Cascad	le BMD	- Lee	e's Sum	nmit			
		+ + + +	4	+ + +	+ + +	¥	↓ ↓	¥	+ +	¥	¥	<u> </u>	↓ ►
А В1	12-05-03	Total Ho	B2 rizontal Produ	uct Length = 2	28-09-13	16-04	-10						<b>B</b> 3
<b>Reaction Sumn</b>	n <mark>ary (Down</mark> / Upli	ift) (Ibs)											
Bearing	Live	Dead	Sno	w	Wind			Roo	of Live				
B1, 2-7/16"	301 / 79	193 / 0											

B1, 2-7/16"	301 / 79	193 / 0
B2, 3-1/2"	959 / 0	327 / 0
B3, 2-3/8"	381 / 26	81 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	28-09-13	Тор	53	13				n∖a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	05-01-15	Тор		27				n\a
3 4	67(i124) 51(i108)	Conc. Pt. (lbs) Conc. Pt. (lbs)	L L	05-04-03 12-05-02	05-04-03 12-05-02			76 9				n\a n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1537 ft-lbs	56.4%	100%	3	21-11-07
Neg. Moment	-1866 ft-lbs	68.5%	100%	1	12-05-03
End Reaction	494 lbs	47.9%	100%	2	00-00-00
Int. Reaction	1287 lbs	61.3%	100%	1	12-05-03
End Shear	480 lbs	32.6%	100%	2	00-02-07
Cont. Shear	647 lbs	43.9%	100%	1	12-06-15
Total Load Deflection	L/598 (0.326")	60.2%	n∖a	3	21-00-10
Live Load Deflection	L/685 (0.285")	70.0%	n∖a	6	21-00-10
Total Neg. Defl.	L/999 (-0.035")	n\a	n\a	3	09-02-04
Max Defl.	0.326"	32.6%	n∖a	3	21-00-10
Span / Depth	20.5				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	494 lbs	25.3%	47.9%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	1287 lbs	43.2%	61.3%	Unspecified
B3	Wall/Plate	2-3/8" x 2"	462 lbs	22.9%	45.0%	Unspecified

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

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# Single 9-1/2" BCI® 5000s-1.8

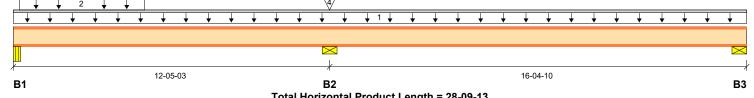
PASSED

# 1st Floor\Floor Joists\J1-16" O.C.(i1034) - 01 (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014				
Job name:	Lot 323 Park Ridge		File name:	Lot 323 Park Ridge.mmdl
Address:			Description:	1st Floor\Floor Joists\J1-16" O.C.(i1034)
City, State, Zip:			Specifier:	
Customer:	KC-Truss & Panel		Designer:	Don Happel
Code reports:	ESR-1336		Company:	Boise Cascade BMD - Lee's Summit
	3			
		4/		



Total Horizontal Product Length = 28-09-13

Snow

Wind

#### Reaction Summary (Down / Uplift) (Ibs) Be<u>aring</u> Live Dead B1, 2-7/16" 193 / 0 301 / 79 B2, 3-1/2" 959 / 0 327 / 0

381 / 26

Loa	Load Summary							Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	28-09-13	Тор	53	13				n∖a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	05-01-15	Тор		27				n\a
3	67(i124)	Conc. Pt. (lbs)	L	05-04-03	05-04-03	Тор		76				n\a
4	51(i108)	Conc. Pt. (lbs)	L	12-05-02	12-05-02	Тор		9				n\a

<b>Controls Summary</b>	Value	% Allowable	Duration	Case	Location
Pos. Moment	1537 ft-lbs	56.4%	100%	3	21-11-07
Neg. Moment	-1866 ft-lbs	68.5%	100%	1	12-05-03
End Reaction	494 lbs	47.9%	100%	2	00-00-00
Int. Reaction	1287 lbs	61.3%	100%	1	12-05-03
End Shear	480 lbs	32.6%	100%	2	00-02-07
Cont. Shear	647 lbs	43.9%	100%	1	12-06-15
Total Load Deflection	L/598 (0.326")	60.2%	n∖a	3	21-00-10
Live Load Deflection	L/685 (0.285")	70.0%	n\a	6	21-00-10
Total Neg. Defl.	L/999 (-0.035")	n\a	n∖a	3	09-02-04
Max Defl.	0.326"	32.6%	n∖a	3	21-00-10
Span / Depth	20.5				

81/0

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	494 lbs	25.3%	47.9%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	1287 lbs	43.2%	61.3%	Unspecified
B3	Wall/Plate	2-3/8" x 2"	462 lbs	22.9%	45.0%	Unspecified

#### Notes

B3, 2-3/8"

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

Roof Live

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



# Single 9-1/2" BCI® 5000s-1.8

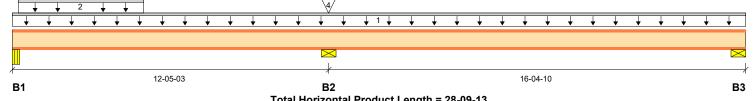
PASSED

# 1st Floor\Floor Joists\J1-16" O.C.(i1034) - 02 (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014				
Job name:	Lot 323 Park Ridge		File name:	Lot 323 Park Ridge.mmdl
Address:			Description:	1st Floor\Floor Joists\J1-16" O.C.(i1034)
City, State, Zip:			Specifier:	
Customer:	KC-Truss & Panel		Designer:	Don Happel
Code reports:	ESR-1336		Company:	Boise Cascade BMD - Lee's Summit
	3			
	¥	$\overline{4}$		



Total Horizontal Product Length = 28-09-13

Snow

Wind

#### Reaction Summary (Down / Uplift) (Ibs) Bearing Live Dead 2\_7/16" 201/70 102/0

DI, Z-7/10	301/79	19370
B2, 3-1/2"	959 / 0	327 / 0
B3, 2-3/8"	381 / 26	81 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	28-09-13	Тор	53	13				n\a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	05-01-15	Тор		27				n\a
3 4	67(i124) 51(i108)	Conc. Pt. (lbs) Conc. Pt. (lbs)	L L	05-04-03 12-05-02	05-04-03 12-05-02			76 9				n∖a n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1537 ft-lbs	56.4%	100%	3	21-11-07
Neg. Moment	-1866 ft-lbs	68.5%	100%	1	12-05-03
End Reaction	494 lbs	47.9%	100%	2	00-00-00
Int. Reaction	1287 lbs	61.3%	100%	1	12-05-03
End Shear	480 lbs	32.6%	100%	2	00-02-07
Cont. Shear	647 lbs	43.9%	100%	1	12-06-15
Total Load Deflection	L/598 (0.326")	60.2%	n∖a	3	21-00-10
Live Load Deflection	L/685 (0.285")	70.0%	n∖a	6	21-00-10
Total Neg. Defl.	L/999 (-0.035")	n\a	n∖a	3	09-02-04
Max Defl.	0.326"	32.6%	n∖a	3	21-00-10
Span / Depth	20.5				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	494 lbs	25.3%	47.9%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	1287 lbs	43.2%	61.3%	Unspecified
B3	Wall/Plate	2-3/8" x 2"	462 lbs	22.9%	45.0%	Unspecified

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

Roof Live

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# Single 9-1/2" BCI® 5000s-1.8

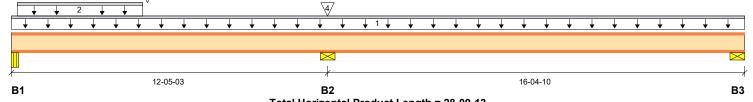
PASSED

# 1st Floor\Floor Joists\J1-16" O.C.(i1034) - 03 (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014					
Job name:	Lot 323 Park Ridge		File name:	Lot 323 Park Ridge.mmdl	
Address:			Description:	1st Floor\Floor Joists\J1-16" O.C.(i1034)	
City, State, Zip:		:	Specifier:		
Customer:	KC-Truss & Panel		Designer:	Don Happel	
Code reports:	ESR-1336		Company:	Boise Cascade BMD - Lee's Summit	



Total Horizontal Product Length = 28-09-13

Snow

Wind

# Bearing Live Dead B1, 2-7/16" 301 / 79 193 / 0

DI, 2-7/10	301/79	19370
B2, 3-1/2"	959 / 0	327 / 0
B3, 2-3/8"	381 / 26	81 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	28-09-13	Тор	53	13				n\a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	05-01-15	Тор		27				n\a
3 4	67(i124) 51(i108)	Conc. Pt. (lbs) Conc. Pt. (lbs)	L L	05-04-03 12-05-02	05-04-03 12-05-02			76 9				n∖a n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1537 ft-lbs	56.4%	100%	3	21-11-07
Neg. Moment	-1866 ft-lbs	68.5%	100%	1	12-05-03
End Reaction	494 lbs	47.9%	100%	2	00-00-00
Int. Reaction	1287 lbs	61.3%	100%	1	12-05-03
End Shear	480 lbs	32.6%	100%	2	00-02-07
Cont. Shear	647 lbs	43.9%	100%	1	12-06-15
Total Load Deflection	L/598 (0.326")	60.2%	n∖a	3	21-00-10
Live Load Deflection	L/685 (0.285")	70.0%	n∖a	6	21-00-10
Total Neg. Defl.	L/999 (-0.035")	n\a	n∖a	3	09-02-04
Max Defl.	0.326"	32.6%	n∖a	3	21-00-10
Span / Depth	20.5				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	494 lbs	25.3%	47.9%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	1287 lbs	43.2%	61.3%	Unspecified
B3	Wall/Plate	2-3/8" x 2"	462 lbs	22.9%	45.0%	Unspecified

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

Roof Live

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# Single 9-1/2" BCI® 5000s-1.8

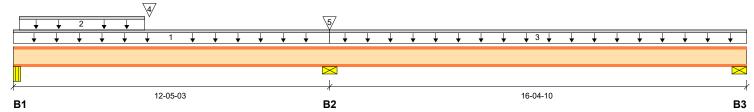


# 1st Floor\Floor Joists\J1-16" O.C.(i774) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J1-16" O.C.(i774)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



Total Horizontal Product Length = 28-09-13

Reaction Summary (Down / Uplift) (lbs)								
Bearing	Live	Dead	Snow	Wind	Roof Live			
B1, 2-7/16"	263 / 79	166 / 0						
B2, 3-1/2"	911 / 0	305 / 0						
B3, 2-3/8"	381 / 23	83 / 0						

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	12-05-03	Тор	47	12				n\a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	05-01-15	Тор		23				n\a
3	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	12-05-03	28-09-13	Тор	53	13				n\a
4	67(i124)	Conc. Pt. (lbs)	L	05-04-03	05-04-03	Тор		66				n∖a
5	51(i108)	Conc. Pt. (lbs)	L	12-05-02	12-05-02	Тор		9				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1549 ft-lbs	56.8%	100%	3	21-11-07
Neg. Moment	-1784 ft-lbs	65.5%	100%	1	12-05-03
End Reaction	464 lbs	45.2%	100%	3	28-09-13
Int. Reaction	1216 lbs	57.9%	100%	1	12-05-03
End Shear	450 lbs	30.5%	100%	3	28-07-07
Cont. Shear	642 lbs	43.5%	100%	1	12-06-15
Total Load Deflection	L/591 (0.33")	60.9%	n∖a	3	21-00-10
Live Load Deflection	L/685 (0.285")	70.0%	n∖a	6	21-00-10
Total Neg. Defl.	L/999 (-0.041")	n∖a	n\a	3	08-10-13
Max Defl.	0.33"	33.0%	n∖a	3	21-00-10
Span / Depth	20.5				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	429 lbs	22.0%	41.7%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	1216 lbs	40.9%	57.9%	Unspecified
B3	Wall/Plate	2-3/8" x 2"	464 lbs	23.0%	45.2%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J1-16" O.C.(i774) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit
Customer:	KC-Truss & Panel	Designer:	Don Happel
City, State, Zip:		Specifier:	
Address:		Description:	1st Floor\Floor Joists\J1-16" O.C.(i774)
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Build 8014			

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8

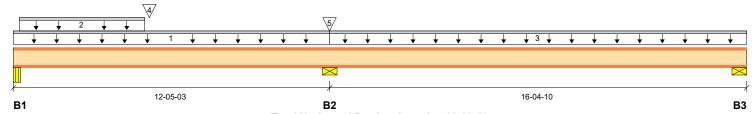


# 1st Floor\Floor Joists\J1-16" O.C.(i775) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:	-	Description:	1st Floor\Floor Joists\J1-16" O.C.(i775)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



Total Horizontal Product Length = 28-09-13

#### Reaction Summary (Down / Uplift) (lbs) Bearing Dead Wind Roof Live Live Snow B1, 2-7/16" 188 / 79 113/0 B2, 3-1/2" 814/0 266 / 0 B3, 2-3/8" 381 / 16 86 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	12-05-03	Тор	33	8				n∖a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	05-01-15	Тор		17				n∖a
3	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	12-05-03	28-09-13	Тор	53	13				n∖a
4	67(i124)	Conc. Pt. (lbs)	L	05-04-03	05-04-03	Тор		47				n∖a
5	51(i108)	Conc. Pt. (lbs)	L	12-05-02	12-05-02	Тор		14				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1574 ft-lbs	57.8%	100%	3	21-08-12
Neg. Moment	-1620 ft-lbs	59.4%	100%	1	12-05-03
End Reaction	467 lbs	45.5%	100%	3	28-09-13
Int. Reaction	1080 lbs	51.4%	100%	1	12-05-03
End Shear	454 lbs	30.8%	100%	3	28-07-07
Cont. Shear	632 lbs	42.8%	100%	1	12-06-15
Total Load Deflection	L/578 (0.337")	62.3%	n∖a	3	21-00-10
Live Load Deflection	L/685 (0.285")	70.0%	n∖a	6	21-00-10
Total Neg. Defl.	L/999 (-0.054")	n∖a	n\a	3	08-03-14
Max Defl.	0.337"	33.7%	n∖a	3	21-00-10
Span / Depth	20.5				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	301 lbs	15.4%	29.2%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	1080 lbs	36.3%	51.4%	Unspecified
B3	Wall/Plate	2-3/8" x 2"	467 lbs	23.1%	45.5%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J1-16" O.C.(i775) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J1-16" O.C.(i775)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



¥

**B**3

# 1st Floor\Floor Joists\J1-16" O.C.(i779) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

BC CALC® Memb	C CALC® Member Report			Dry   2 spans   No cant.   16 OC				CS   Repetitive   Glued & nailed					iled			D	ece	mbei	<sup>-</sup> 22,	202	1 1
Build 8014																					
Job name:	Lot 323 Park F	lidge					File	e nam	ne:	L	Lot 3	23 F	Park	Ridg	ge.m	mdl					
Address:							Des	script	ion:		1st F	loor	\Floo	r Jo	ists∖	J1-1	6" C	).C.(i	779)		
City, State, Zip:							Spe	ecifie	r:												
Customer:	KC-Truss & Pa	inel					Des	signe	r:	[	Don l	Нар	pel								
Code reports:	ESR-1336						Coi	mpan	ıy:	E	Boise	e Ca	scad	le B	MD ·	- Lee	ə's S	umn	nit		
	₹				8													,		, 6	
↓ ↓ 2	↓ ↓					↓ ↓	¥	¥	¥	¥	¥	¥	<b>↓</b> 3	¥	¥	¥	¥	+	¥	¥	¥
+ $+$ $+$ $+$	$\downarrow$ $\downarrow$ $\downarrow$ 1 $\downarrow$	+ +	+ +	¥	+	<b>↓</b>	¥	¥	¥	¥	4	¥	¥	¥	¥	¥	¥	<b>↓</b>	¥	5	¥



**B2** 

Total Horizontal Product Length = 28-09-13

Snow

16-04-10

Roof Live

Wind

# Reaction Summary (Down / Uplift) (Ibs) Bearing Live Dead

12-05-03

B1, 2-7/16"	208 / 62	127 / 0
B2, 3-1/2"	710 / 0	282 / 0
B3, 2-3/8"	336 / 18	189 / 0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	12-05-13	Тор	37	9				n\a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	05-01-15	Тор		18				n\a
3	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	12-05-03	28-09-13	Тор	27	7				n\a
4	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	12-06-15	24-03-07	Тор	13	3				n\a
5	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	24-03-07	28-09-13	Тор	27	7				n\a
6	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	24-06-15	28-06-15	Тор		35				n\a
7	67(i124)	Conc. Pt. (lbs)	L	05-04-03	05-04-03	Тор		57				n\a
8	51(i108)	Conc. Pt. (lbs)	L	12-05-02	12-05-02	Тор		19				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1382 ft-lbs	50.7%	100%	3	22-06-15
Neg. Moment	-1485 ft-lbs	54.5%	100%	1	12-05-03
End Reaction	525 lbs	51.2%	100%	3	28-09-13
Int. Reaction	993 lbs	47.3%	100%	1	12-05-03
End Shear	512 lbs	34.7%	100%	3	28-07-07
Cont. Shear	518 lbs	35.1%	100%	1	12-06-15
Total Load Deflection	L/669 (0.292")	53.8%	n∖a	3	21-02-10
Live Load Deflection	L/862 (0.226")	55.7%	n∖a	6	21-00-09
Total Neg. Defl.	L/999 (-0.037")	n∖a	n∖a	3	08-09-11
Max Defl.	0.292"	29.2%	n∖a	3	21-02-10
Span / Depth	20.5				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	335 lbs	17.2%	32.6%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	993 lbs	33.4%	47.3%	Unspecified
B3	Wall/Plate	2-3/8" x 2"	525 lbs	26.0%	51.2%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J1-16" O.C.(i779) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit
Customer:	KC-Truss & Panel	Designer:	Don Happel
City, State, Zip:		Specifier:	
Address:		Description:	1st Floor\Floor Joists\J1-16" O.C.(i779)
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Build 8014			

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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#### c **^**I@



Boise Cascade <sup>®</sup> Single 9-1/2" BCI® 5000s-1.8 PASSE										ASSED			
	NOINEERED WOOD FRODUCIS		1st F	loor\Floo	r Joists\J	1-16" O.C.(	i815) (Fl	oor Jo	ist)				
BC C	ALC® Member F	Report				CS   Repetitiv				De	ecember	· 22, 202 <sup>,</sup>	1 10:31:03
Build		•											
Job n		Lot 323 Pa	rk Ridae			File name	e: Lo	ot 323 Pa	ark Ridg	e.mmdl			
Addre			0			Description				sts\J1-16	6" O.C.(i	815)	
	State, Zip:					Specifier:					(	/	
Custo	•	KC-Truss 8	Panel			, Designer		on Happ	el				
		ESR-1336				Company				/ID - Lee	s Summ	nit	
					8					9/			10
77			3		¥4¥						<u>↓</u> 6		<b>–</b> V
ľ,									↓ 5 ↓		<b>*</b> °		
	•   • •		• •		•		• •	• •	• •		• •	• •	
					$\mathbf{\times}$								
02-	-00-11 B4		10-04-08		B2				16-02-04				B2
	B1			Total H		roduct Length	= 28-07-0	7					B3
Rea	ction Summa	arv (Dow	n / Unlift)					-					
Bearin		Live		Dead		Snow	v	Vind		Roo	f Live		
B1, 3-		373 / 0		151/0							-		
B2, 3		747 / 0		253 / 0									
B3, 2		280 / 17	7	212/0									
- ,													
	d Summary							Live	Dead	Snow	Wind	Roof	ocs
	-											Live	
	Description	·	Load Type	Ref		End	Loc.	100%	90%	115%	160%	125%	
	FC2 Floor Decki	ng (Plan	Unf. Lin. (lb	/ft) L	00-00-0	0 02-00-11	Тор	53	13				n∖a
2	View Fill) FC2 Floor Decki	ng (Plan	Unf. Lin. (Ib	/ft) L	02-00-1	1 12-05-03	Тор	27	7				n\a
	View Fill) FC2 Floor Decki	ng (Plan	Unf. Lin. (Ib	/ft) L	02-00-1	1 11-03-03	Тор	27	7				n\a
,	View Fill) FC2 Floor Decki		Unf. Lin. (Ib	/ft) L	11-04-1	5 12-05-03	Тор	13					n\a
,	View Fill)		·	,			·		40				
,	FC2 Floor Decki View Fill)		Unf. Lin. (Ib	,	12-05-0		·	40	10				n∖a
	FC2 Floor Decki View Fill)	ng (Plan	Unf. Lin. (Ib	/ft) L	22-02-1	4 27-02-15	Тор		18				n\a
7	E32(i100)		Conc. Pt. (It	os) L	00-00-1	0 00-00-10	Тор		78				n∖a
	51(i108)		Conc. Pt. (It		12-05-0		Тор		9				n∖a
	58(i115)		Conc. Pt. (It			2 22-01-02	Тор		57				n\a
	53(i111)		Conc. Pt. (Il	•	27-04-1				57				n\a
			,	,			•						
Con	trols Summa	<b>iry</b> Valu	e	% Allov	vable	Duration	Case	Loca	tion				
Pos. I	Moment	155	3 ft-lbs	57.0%		100%	2	22-0	1-02				
Neg.	Moment	-144	l9 ft-lbs	53.2%		100%	5	12-0	5-03				
End F	Reaction	492	lbs	49.6%		100%	2	28-0	7-07				
Int. R	eaction	100	0 lbs	47.6%		100%	5	12-0	5-03				
End S	Shear	484	lbs	32.8%		100%	2	28-0	5-07				
Cont.	Shear	533	lbs	36.1%		100%	5	12-0	6-15				
Total	Load Deflection	L/61	3 (0.315")	58.7%		n∖a	2	21-0	3-05				
Live L	oad Deflection	L/95	54 (0.202")	50.3%		n∖a	7	21-0	0-00				
Total	Neg. Defl.		99 (-0.058")	n∖a		n∖a	2	07-1	0-14				
Max [	-	0.31		31.5%		n\a	2		3-05				
	Max Defl.	0.04		n∖a		n\a	2		0-00				
	/ Depth	20.3											
					% Allow	% Allow							
Bea	ring Support			/alue	Support	Member	Materia						
B1	Wall/Plate	3-1/2" x		524 lbs	17.6%	24.9%	Unspe						
B2	Wall/Plate	3-1/2" x	2" 1	1000 lbs	33.6%	47.6%	Unspe	ecified					



# Single 9-1/2" BCI® 5000s-1.8



December 22, 2021 10:31:03

### 1st Floor/Floor Joists/J1-16" O.C.(i815) (Floor Joist)

Dry | 3 spans | L cant. | 16 OCS | Repetitive | Glued & nailed

Build 8014 Job name: Lot 323 Park Ridge File name: Lot 323 Park Ridge.mmdl 1st Floor\Floor Joists\J1-16" O.C.(i815) Description: Address: City, State, Zip: Specifier: **KC-Truss & Panel** Designer: Customer: Don Happel Code reports: ESR-1336 Company: Boise Cascade BMD - Lee's Summit

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B3	Hanger	2" x 2"	492 lbs	n∖a	49.6%	ITS2.06/9.5

#### Cautions

Hanger model ITS2.06/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

Design assumes Top and Bottom flanges to be restrained.

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (1") Cantilever Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Cantilevers require sheathed bottom flanges, blocking at cantilever support and closure at ends.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8

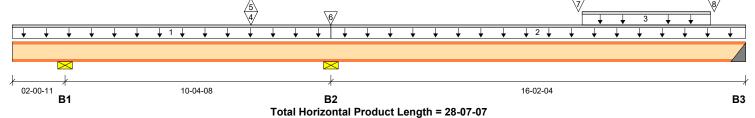


# 1st Floor\Floor Joists\J1-16" O.C.(i977) (Floor Joist)

Dry | 3 spans | L cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014					
Job name:	Lot 323 Park Ridge		File name:	Lot 323 Park Ridge.mmdl	
Address:			Description:	1st Floor\Floor Joists\J1-16" O.C.(i977)	
City, State, Zip:			Specifier:		
Customer:	KC-Truss & Panel		Designer:	Don Happel	
Code reports:	ESR-1336		Company:	Boise Cascade BMD - Lee's Summit	
		A		7	8



Reaction Summary (Down / Uplift) (lbs)

Reaction oun													
Bearing	Live	Dead	Snow	Wind	Roof Live								
B1, 3-1/2"	366 / 99	40 / 0											
B2, 3-1/2"	943 / 19	351 / 0											
B3, 2"	373 / 19	290 / 0											

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	-	Unf. Lin. (lb/ft)	L	00-00-00	12-05-03	Тор	50	13				n∖a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	12-05-03	28-07-07	Тор	53	13				n\a
3	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	22-02-14	27-02-15	Тор		27				n\a
4	J8-16" O.C.(i1064)	Conc. Pt. (lbs)	L	09-03-12	09-03-12	Back	68	15				n\a
5	J8-16" O.C.(i1064)	Conc. Pt. (lbs)	L	09-03-12	09-03-12	Back	-8					n∖a
6	51(i108)	Conc. Pt. (lbs)	L	12-05-02	12-05-02	Тор		9				n∖a
7	58(i115)	Conc. Pt. (lbs)	L	22-01-02	22-01-02	Тор		76				n∖a
8	53(i111)	Conc. Pt. (lbs)	L	27-04-11	27-04-11	Тор		76				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	2083 ft-lbs	76.4%	100%	3	22-01-02
Neg. Moment	-1907 ft-lbs	70.0%	100%	6	12-05-03
End Reaction	663 lbs	66.7%	100%	3	28-07-07
Int. Reaction	1294 lbs	61.6%	100%	6	12-05-03
End Shear	652 lbs	44.2%	100%	3	28-05-07
Cont. Shear	712 lbs	48.3%	100%	6	12-06-15
Total Load Deflection	L/459 (0.421")	78.5%	n∖a	3	21-03-05
Live Load Deflection	L/716 (0.269")	67.0%	n∖a	11	21-00-00
Total Neg. Defl.	L/999 (-0.073")	n\a	n∖a	3	08-01-09
Max Defl.	0.421"	42.1%	n∖a	3	21-03-05
Cant. Max Defl.	0.039"	n\a	n∖a	3	00-00-00
Span / Depth	20.3				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	3-1/2" x 2"	405 lbs	13.6%	19.3%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	1294 lbs	43.5%	61.6%	Unspecified
B3	Hanger	2" x 2"	663 lbs	n∖a	66.7%	ITS2.06/9.5



# Single 9-1/2" BCI® 5000s-1.8

PASSED

December 22, 2021 10:31:03

# 1st Floor\Floor Joists\J1-16" O.C.(i977) (Floor Joist)

Dry | 3 spans | L cant. | 16 OCS | Repetitive | Glued & nailed

Build 8014 Job name: Lot 323 Park Ridge File name: Lot 323 Park Ridge.mmdl Description: 1st Floor\Floor Joists\J1-16" O.C.(i977) Address: City, State, Zip: Specifier: **KC-Truss & Panel** Designer: Customer: Don Happel Code reports: ESR-1336 Company: Boise Cascade BMD - Lee's Summit

#### Cautions

Uplift of -59 lbs found at bearing B1.

Hanger model ITS2.06/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

Design assumes Top and Bottom flanges to be restrained.

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (1") Cantilever Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Cantilevers require sheathed bottom flanges, blocking at cantilever support and closure at ends.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8

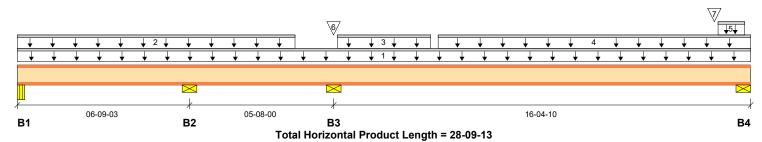


# 1st Floor\Floor Joists\J1-16" O.C.(i987) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

BC CALC® Member Report		Dry   3 spans   No cant.   16 OCS   Repetitive   Glued & nailed			December 22, 2021 10:3	
Build 8014						
Job name: Lot 323 Park Ridge			File name:	Lot 323 Park Ridge.mmdl		
Address:			Description:	1st Floor\Floor Joists\J1	-16" O.C.(i987)	
City, State, Zip:			Specifier:			
Customer:	KC-Truss & Pan	el	Designer:	Don Happel		
Code reports:	ESR-1336		Company:	Boise Cascade BMD - L	ee's Summit	



#### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 2-7/16"	118 / 7	28 / 0			
B2, 3-1/2"	234 / 262	0 / 13			
B3, 3-1/2"	838 / 15	231/0			
B4, 2-3/8"	371/2	182 / 0			

Loa	l Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	28-09-13	Тор	27	7				n\a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	10-10-15	Тор	5	1				n\a
3	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	12-06-15	16-02-15	Тор	26	7				n\a
4	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	16-06-07	28-09-13	Тор	28	7				n\a
5	54(i110)	Unf. Lin. (lb/ft)	L	27-06-07	28-06-15	Тор		57				n∖a
6	51(i108)	Conc. Pt. (lbs)	L	12-05-02	12-05-02	Тор		12				n∖a
7	53(i111)	Conc. Pt. (lbs)	L	27-04-11	27-04-11	Тор		38				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1561 ft-lbs	57.3%	100%	3	22-01-10
Neg. Moment	-1603 ft-lbs	58.8%	100%	6	12-05-03
End Reaction	553 lbs	53.9%	100%	3	28-09-13
Int. Reaction	1069 lbs	50.9%	100%	6	12-05-03
End Shear	540 lbs	36.6%	100%	3	28-07-07
Cont. Shear	636 lbs	43.1%	100%	6	12-06-15
Total Load Deflection	L/594 (0.328")	60.6%	n∖a	3	21-03-07
Live Load Deflection	L/760 (0.256")	63.1%	n∖a	11	21-01-06
Total Neg. Defl.	L/999 (-0.023")	n∖a	n∖a	3	10-01-05
Max Defl.	0.328"	32.8%	n∖a	3	21-03-07
Span / Depth	20.5				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	147 lbs	7.5%	14.2%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	221 lbs	7.4%	10.5%	Unspecified
B2	Uplift		275 lbs			
B3	Wall/Plate	3-1/2" x 2"	1069 lbs	35.9%	50.9%	Unspecified
B4	Wall/Plate	2-3/8" x 2"	553 lbs	27.4%	53.9%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor/Floor Joists/J1-16" O.C.(i987) (Floor Joist)

Dry | 3 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J1-16" O.C.(i987)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Cautions

Uplift of -275 lbs found at bearing B2.

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

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#### Double 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J3-16" O.C.(i1002) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

BC CALC® Membe	er Report	Dry   1 span   No cant.   16 OC	S   Repetitive   0	Glued & nailed	December 22, 2021 10:31:0
Build 8014					
Job name:	Lot 323 Park Ric	lge	File name:	Lot 323 Park Ridge.mm	dl
Address:			Description:	1st Floor\Floor Joists\J3	3-16" O.C.(i1002)
City, State, Zip:			Specifier:		
Customer:	KC-Truss & Pan	el	Designer:	Don Happel	
Code reports:	ESR-1336		Company:	Boise Cascade BMD - L	_ee's Summit
		4	7		5



**B1** 

16-00-08 Total Horizontal Product Length = 16-00-08

**B2** 

# Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live	
B1, 2-1/2"	429 / 0	204 / 0				
B2, 2"	427 / 0	343 / 0				

Loa	id Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	16-00-08	Тор	53	13				n∖a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	07-11-15	14-08-00	Тор		13				n∖a
3	-	Unf. Lin. (lb/ft)	L	07-11-15	14-08-00	Тор		13				n∖a
4	56(i114)	Conc. Pt. (lbs)	L	07-10-03	07-10-03	Тор		78				n∖a
5	53(i111)	Conc. Pt. (lbs)	L	14-09-12	14-09-12	Тор		78				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	2833 ft-lbs	52.0%	100%	1	08-02-07
End Reaction	770 lbs	38.7%	100%	1	16-00-08
End Shear	759 lbs	25.7%	100%	1	15-10-08
Total Load Deflection	L/558 (0.34")	64.5%	n∖a	1	08-02-07
Live Load Deflection	L/935 (0.203")	51.3%	n∖a	2	07-11-15
Max Defl.	0.34"	34.0%	n∖a	1	08-02-07
Span / Depth	19.9				

Deering				% Allow	% Allow	
Bearing	g Supports	Dim. (LxW)	Value	Support	Member	Material
B1	Hanger	2-1/2" x 4"	633 lbs	24.7%	26.4%	MIT4.12/9.5
B2	Hanger	2" x 4"	770 lbs	n∖a	38.7%	MIT4.12/9.5

#### Cautions

Web stiffeners required at bearing B1.

Header for the hanger MIT4.12/9.5 is a Double 1-3/4" x 9-1/2" LVL Beam.

Hanger MIT4.12/9.5 requires (4) 16d face nails, (4) 16d TF nails, (2) 10dx1.5 joist nails.

Hanger model MIT4.12/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.



# Double 9-1/2" BCI® 5000s-1.8



### 1st Floor\Floor Joists\J3-16" O.C.(i1002) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J3-16" O.C.(i1002)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

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# Double 9-1/2" BCI® 5000s-1.8



#### Loiete 13-16" O.C. (i1018) (Floor Joist)

BC CALC® Membe	r Penort		No cant.   16 OC	•	Glued & nailed	December 22, 2021 10:31:03
Build 8014	Пероп	Diy   i Spair			Giueu & Halleu	December 22, 2021 10.31.03
Job name:	Lot 323 Park Rid	dae		File name:	Lot 323 Park Ridge.n	nmdl
Address:		5		Description:	1st Floor\Floor Joists	
City, State, Zip:				Specifier:		· · ·
Customer:	KC-Truss & Pan	nel		Designer:	Don Happel	
Code reports:	ESR-1336			Company:	Boise Cascade BMD	- Lee's Summit
		↓ ↓ ↓ 3 ↓ ↓ ↓ ↓	<b>↓ ↓ ↓</b> ↓ ↓ ↓ ↓	7   ↓ ↓ ↓ 1 ↓ ↓ ↓	$\begin{array}{c} \downarrow \downarrow \downarrow 4 \downarrow $	
B1				00-08		B2
			tal Horizontal Proc	luct Length = 16	6-00-08	
Reaction Sumn	nary (Down / l	Jplift) (lbs)	Sn	OW	Wind	Roof Live

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 2-1/2"	429 / 0	429 / 0			
B2, 2"	427 / 0	427 / 0			

Loa	bad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	16-00-08	Тор	53	13				n\a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	03-08-07	Тор		13				n\a
3	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	03-11-15	07-07-15	Тор		43				n\a
4	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	07-11-15	14-08-00	Тор		27				n\a
5	59(i117)	Conc. Pt. (lbs)	L	03-10-03	03-10-03	Тор		104				n\a
6	56(i114)	Conc. Pt. (lbs)	L	07-10-03	07-10-03	Тор		76				n\a
7	53(i111)	Conc. Pt. (lbs)	L	14-09-12	14-09-12	Тор		76				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	3522 ft-lbs	64.6%	100%	1	07-10-03
End Reaction	854 lbs	43.0%	100%	1	16-00-08
End Shear	843 lbs	28.6%	100%	1	15-10-08
Total Load Deflection	L/447 (0.424")	80.6%	n∖a	1	07-11-14
Live Load Deflection	L/935 (0.203")	51.3%	n∖a	2	07-11-15
Max Defl.	0.424"	42.4%	n∖a	1	07-11-14
Span / Depth	19.9				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Hanger	2-1/2" x 4"	858 lbs	33.4%	35.7%	MIT4.12/9.5
B2	Hanger	2" x 4"	854 lbs	n∖a	43.0%	MIT4.12/9.5

# Cautions

Web stiffeners required at bearing B1.

Header for the hanger MIT4.12/9.5 is a Double 1-3/4" x 9-1/2" LVL Beam.

Hanger MIT4.12/9.5 requires (4) 16d face nails, (4) 16d TF nails, (2) 10dx1.5 joist nails.

Hanger model MIT4.12/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.



# Double 9-1/2" BCI® 5000s-1.8



## 1st Floor\Floor Joists\J3-16" O.C.(i1018) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J3-16" O.C.(i1018)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

	Boise Cascade*	
V	ENGINEERED WOOD PRODUCTS	

-

$\mathbf{\hat{x}}$	Boise Cascade <sup>®</sup>			Doub	ole 9-1/2"	BCI® 50	00s-1.	.8				PA	SSED
					Joists\J3-	•							
	CALC® Member 8014	Report	Dry   1	span   No d	cant.   16 OC	S   Repetiti	ve   Glue	d & naile	ed	De	ecember	<sup>-</sup> 22, 2021	10:31:03
	name:	Lot 323 Pa	rk Ridge			File name			ark Ridg				
Addr						Descriptio		st Floor\F	-loor Joi	sts\J3-16	6" O.C.(i	1024)	
	State, Zip:		Denel			Specifier:			- I				
	omer: e reports:	KC-Truss 8 ESR-1336	Panel			Designer: Company		on Happ		/ID - Lee	's Summ	hit	
		LOIK-1000				Company					3 Ourini	iit	
			_		Ŕ	1/						5⁄	
		$\begin{array}{c} \downarrow & \downarrow & \downarrow \\ \hline \downarrow & \downarrow & \downarrow \end{array}$					+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$		3	+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$	+ $+$ $+$ $+$ $+$ $+$	+	I I
						· ·	• •		• •		• •		
∦— B1					16	-00-08							 B2
DI				Total H	orizontal Pro	duct Length	= 16-00-0	8					B2
	ction Summ		• • •	•	-					_			
Beari B1 2	ng 2-1/2"	Live 429 / 0		<b>Dead</b> 347 / 0	S	now		Vind		Roo	f Live		
B2, 2		427 / 0		358 / 0									
Loa	d Summary							Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description		Load Type	Ref		End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Deck View Fill)	ting (Plan	Unf. Lin. (lb/	ft) L	00-00-00	16-00-08	Тор	53	13				n∖a
2	FC2 Floor Deck View Fill)	ing (Plan	Unf. Lin. (Ib/	ft) L	00-00-00	03-08-07	Тор		43				n∖a
3	FC2 Floor Deck View Fill)	ing (Plan	Unf. Lin. (lb/	ft) L	07-11-15	14-08-00	Тор		27				n\a
4	56(i114)		Conc. Pt. (Ib	,	07-10-03		Тор		76				n∖a
5	53(i111)		Conc. Pt. (Ib	s) L	14-09-12	14-09-12	Тор		76				n\a
Con	trols Summa	<b>ary</b> Valu	e	% Allov	vable D	Duration	Case	Loca	ition				
Pos.	Moment	296	1 ft-lbs	54.3%		00%	1	07-1	1-15				
	Reaction	784		39.5%		00%	1		0-08				
	Shear	773		26.2%		100%	1		0-08				
	Load Deflection		60 (0.358")	68.0%	r	n∖a	1	07-1	1-15				
Live	Load Deflection	L/93	5 (0.203")	51.3%	r	ı∖a	2	07-1	1-15				
Max	Defl.	0.35	8"	35.8%	r	n∖a	1	07-1	1-15				
Span	n / Depth	19.9	)										
Paa	ring Suppor	to "			% Allow	% Allow							
B1	Hanger	<b>ts</b> Dim. (Lx 2-1/2" x		<b>alue</b> 76 lbs	Support 30.2%	Member 32.3%	Materi MIT4.						
B2	Hanger	2" x 4"		84 lbs	n∖a	39.5%	MIT4.						
	-												
	tions												
	stiffeners requir												
Head	ler for the hange	er MIT4.12/9	.5 is a Double	e 1-3/4" x 9	-1/2" LVL Be	eam.							
Hang	ger MIT4.12/9.5	requires (4)	16d face nails	s, (4) 16d T	F nails, (2) ′	10dx1.5 jois	t nails.						
	ger model MIT4. uate capacity.	12/9.5 and s	seat length we	re input by	the user. Ha	anger has n	ot been a	analyzed	for				
	· •												



# Double 9-1/2" BCI® 5000s-1.8



#### 1st Floor\Floor Joists\J3-16" O.C.(i1024) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J3-16" O.C.(i1024)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

Boise Cascade <sup>®</sup> Double 9-1/2" BCI® 5000s-1.8									P	ASSED		
ENGINEERED WOOD PRODUCTS		1st	Floor\Floo	r Joists\J	3-16" O.C.(i	i859) (Fl	oor Joi	st)				
BC CALC® Member R Build 8014	eport				CS   Repetiti				De	ecembei	r 22, 202	21 10:31:03
Job name: L	ot 323 Pa	rk Ridge			File name	e: Lo	t 323 Pa	irk Ridg	e.mmdl			
Address:		Ū			Description			-	sts\J3-16	6" O.C.(i	859)	
City, State, Zip:					Specifier:						,	
•	C-Truss &	& Panel			Designer	: Do	on Happe	el				
Code reports: E	SR-1336				Company	/: Bo	ise Case	cade Bl	ND - Lee	's Sumn	nit	
		4			5						6/	7
		Ů V V	2	· + +	° <b>↓</b> ↓	↓ ↓	↓ ↓	3 🗸	+ +	+ +	¥ Č	
+ $+$ $+$ $+$ $+$	+ +	+ $+$ $+$	+ + +	+ +	↓ 1 ↓ ↓	+ + +	· + +	+ +	+ +	+ +	+ +	+ +
X					6-00-08							
B1							•					B2
Desetion Original	(D			Iorizontal Pr	oduct Length	= 16-00-0	8					
Reaction Summa Bearing	Live		) (IDS) Dead		Snow	v	Vind		Poo	f Live		
B1, 2-1/2"	563 / 0		378 / 0		5110W		VIIIU			LIVE		
B2, 2"	560 / 0		469 / 0									
, _			, .									
Load Summary							Live	Dead	Snow	Wind	Roof	ocs
Load Summary											Live	
Tag Description	(5)	Load Type			End	Loc.	100%	90%	115%	160%	125%	
1 FC2 Floor Deckir View Fill)		Unf. Lin. (	,	00-00-00		Тор	70	18				n∖a
2 FC2 Floor Deckir View Fill)		Unf. Lin. (	,	03-11-1		Тор _		13				n\a
3 FC2 Floor Deckir View Fill)	ıg (Plan	Unf. Lin. (	,	07-11-1		Тор		35				n\a
4 59(i117)		Conc. Pt.	• •	03-10-03		Тор		104				n∖a
5 56(i114)		Conc. Pt.	• •	07-10-03		•		104				n\a
6 53(i111)		Conc. Pt.	(lbs) L	14-09-12	2 14-09-12	Тор		76				n\a
Controls Summa	<b>ry</b> Valu		% Allo	vabla	Duration	Casa		Han				
Pos. Moment		2 ft-lbs	74.2%	wable	100%	<u>Case</u>	Locat 07-10					
End Reaction		9 lbs	51.8%		100%	1	16-00					
End Shear		4 lbs	34.4%		100%	1	15-10					
Total Load Deflection		39 (0.487")	92.4%		n\a	1	07-1					
Live Load Deflection		13 (0.266")	67.4%		n∖a	2	07-1					
Max Defl.	0.48	• •	48.7%		n\a	1	07-1 <sup>-</sup>					
Span / Depth	19.9											
· ·												
Bearing Supports	Dim. (L)	(W)	Value	% Allow Support	% Allow Member	Materia	al					
B1 Hanger	2-1/2" x	( 4"	941 lbs	36.7%	39.2%	MIT4.	12/9.5					
B2 Hanger	2" x 4"		1029 lbs	n\a	51.8%	MIT4.	12/9.5					
Cautions												
Web stiffeners require	d at hearir	na B1										

Web stiffeners required at bearing B1.

Header for the hanger MIT4.12/9.5 is a Double 1-3/4" x 9-1/2" LVL Beam.

Hanger MIT4.12/9.5 requires (4) 16d face nails, (4) 16d TF nails, (2) 10dx1.5 joist nails.

Hanger model MIT4.12/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.



# Double 9-1/2" BCI® 5000s-1.8



#### 1st Floor/Floor Joists/J3-16" O.C.(i859) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J3-16" O.C.(i859)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



# Single 9-1/2" BCI® 5000s-1.8



#### 1st Floor\Floor Joists\J4-16" O.C.(i1006) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J4-16" O.C.(i1006)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

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<mark>₩</mark> ∕────					/							
B1		06-09-03			B2				05-06-04			В3
Doot	ion Summor	n (Down / Unlift		orizontal F	Product Length	= 12-03-0	7					
Reacting	ion Summar	y (Down / Uplift <sub>Live</sub>	Dead		Snow	v	Vind		Roo	f Live		
31, 2-7/	16"	164 / 11	38 / 0									
32, 3-1/	2"	391 / 0	98 / 0									
33, 2"		136 / 25	28 / 0									
.oad S	Summary						Live	Dead	Snow	Wind	Roof	ocs
ag De	scription	Load Type	Ref	. Start	End	Loc.	100%	90%	115%	160%	Live 125%	
	2 Floor Decking			00-00-0		Тор	53	13				n\a
Vie	ew Fill)											
ontro	ols Summar	<b>y</b> Value	% Allov	vable	Duration	Case	Loca	tion				
os. Mo		279 ft-lbs	10.2%		100%	2	03-0					
leg. Mo	oment	-261 ft-lbs	9.6%		100%	1	06-0	9-03				
Ind Rea		202 lbs	19.6%		100%	2	00-0	0-00				
nt. Rea	ction	489 lbs	23.3%		100%	1	06-0	9-03				
End She		189 lbs	12.8%		100%	2	00-0					
Cont. SI		251 lbs	17.0%		100%	1	06-0					
otal Lo	ad Deflection	L/999 (0.016")	n\a		n\a	2	03-0					
	ad Deflection	L/999 (0.013")	n\a		n\a	5	03-0					
	eg. Defl.	L/999 (-0.001")	n\a		n\a	2	08-0					
/ax De	-	0.016"	n\a		n\a	2	03-0					
Span / E		8.4				-						
				% Allow	% Allow							
Bearir	ng Supports	Dim. (LxW)	Value	Support	Member	Materia	al					
31	Beam	2-7/16" x 2"	202 lbs	10.3%	19.6%	Unspe	cified		Discl	osure	•	
32	Wall/Plate	3-1/2" x 2"	489 lbs	16.4%	23.3%	Unspe	cified		Use of t	he Boise	Cascade S	oftware is
33	Hanger	2" x 2"	164 lbs	10.6%	16.5%	ITS2.0	6/9.5				ms of the E ent (EULA).	
Cautio	ne								Comple	teness ai	nd accuracy	/ of input
		TS2.06/9.5 is a Dou	blo 1 2/4" v 0	1/2"   \/	Poom						r or other a	
		uires (2) 10d face na				oist nails					its adequad n such outp	
-				· <b>·</b>					evidenc	e of suita	bility for a poutput here	oarticular
Notes											cepted desi	
Design I	meets User spe	cified (L/360) Total l	oad deflectior	n criteria.					properti	es and ar	nalysis metl	nods.
		cified (L/480) Live lo									ise Cascad	
Design i	meets arbitrary	(1") Maximum Total	load deflectio	n criteria.					0		l products r current Inst	

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



# Single 9-1/2" BCI® 5000s-1.8



December 22, 2021 10:31:03

# 1st Floor\Floor Joists\J4-16" O.C.(i1006) - 01 (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

Build 8014 Job name: Lot 323 Park Ridge File name: Lot 323 Park Ridge.mmdl Description: 1st Floor\Floor Joists\J4-16" O.C.(i1006) Address: City, State, Zip: Specifier: Customer: **KC-Truss & Panel** Designer: Don Happel Code reports: ESR-1336 Company: Boise Cascade BMD - Lee's Summit

<b>/</b>		06-09-03			/				05-06-04			
B1				orizontal F	B2 Product Length	= 12-03-0	7		00-00-04			B3
earing	ion Summar	y (Down / Uplift)	) (Ibs) Dead		Snow	v	lind		Roo	f Live		
1, 2-7	/16"	164 / 11	38 / 0			-						
2, 3-1	/2"	391 / 0	98 / 0									
3, 2"		136 / 25	28 / 0									
.oad	Summary						Live	Dead	Snow	Wind	Roof Live	ос
	escription	Load Type	Ref	. Start	End	Loc.	100%	90%	115%	160%	125%	
	C2 Floor Decking ew Fill)	g (Plan Unf. Lin. (	b/ft) L	00-00-0	00 12-03-07	Тор	53	13				n\
ontr	ols Summar		% Allov	vable	Duration	Case	Loca					
	oment	279 ft-lbs	10.2%		100%	2		0-06				
•	oment	-261 ft-lbs	9.6%		100%	1	06-0					
	action	202 lbs	19.6%		100%	2	00-0					
nt. Rea		489 lbs	23.3%		100%	1	06-0					
nd Sh	ear	189 lbs	12.8%		100%	2	00-0	2-07				
cont. S	hear	251 lbs	17.0%		100%	1	06-0	7-07				
otal Lo	oad Deflection	L/999 (0.016")	n\a		n∖a	2	03-0	4-00				
ive Lo	ad Deflection	L/999 (0.013")	n∖a		n∖a	5	03-0	4-00				
otal N	eg. Defl.	L/999 (-0.001")	n\a		n∖a	2	08-0	3-15				
/lax De		0.016"	n∖a		n∖a	2	03-0	4-00				
pan /	Depth	8.4										
Bearii	ng Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Materia						
1	Beam	2-7/16" x 2"	202 lbs	10.3%	19.6%	Unspe			Discl	osure	;	
2	Wall/Plate	3-1/2" x 2"	489 lbs	16.4%	23.3%	Unspe						Software is
3	Hanger	2" x 2"	164 lbs	10.6%	16.5%	ITS2.0	6/9.5		License Comple	Agreeme teness a	ent (EULA	cy of input
autio		TS2.06/9.5 is a Doul	1 2/4" y 0	1/2"   \/	Boom				qualified	l enginee	er or other	appropriate
	•	juires (2) 10d face na				joist nails.			expert to anyone evidenc	o assure relying o e of suita	its adequant its adequant its such out its such out	acy, prior to
lotes									building	code-ac	cepted de	sign
esign	meets User spe	cified (L/360) Total lo	ad deflectior	n criteria.					properti Installat		nalysis me	

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



#### Single 9-1/2" BCI® 5000s-1.8



December 22, 2021 10:31:03

1st Floor\Floor Joists\J4-16" O.C.(i1012) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J4-16" O.C.(i1012)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

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	+ $+$ $+$ $+$	$\downarrow$ $\downarrow$ $\downarrow$	+ + + +	+ +	+ $+$ $+$	1↓↓	+ + +	<b>· ↓</b>	↓ ↓	↓ ↓	+ +	+ +	+ +
	1												
1					12-	05-12							
B1				Total H	orizontal Pro	duct Lenath	= 12-05-1	2					B2
Po	action Summ	arv (Dow	n / Unlift) (ll		5112011121110	auct Length	- 12-00-1	2					
	ring	Live		ead	Si	now	v	Vind		Roo	of Live		
	2-3/8"	328 / 0		2/0									
	2-3/8"	333 / 0	8	3/0									
Loa	ad Summary							Live	Dead	Snow	Wind	Roof	ocs
Tag	Description		Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	Live 125%	
1	FC2 Floor Deck View Fill)	king (Plan	Unf. Lin. (lb/ft)	) L	00-00-00	12-05-12	Тор	26	7				n∖a
2	FC2 Floor Deck View Fill)	king (Plan	Unf. Lin. (Ib/ft)	) L	00-02-06	12-05-12	Тор	28	7				n\a
Co	ntrols Summa	ary Valu	le	% Allow	able D	uration	Case	Loca	ation				
Pos	. Moment	124	2 ft-lbs	45.6%	1	00%	1	06-0	2-14				
End	Reaction	416	lbs	40.5%	1	00%	1	12-0	5-12				
End	Shear	403	lbs	27.3%	1	00%	1	00-0	2-06				
Tota	al Load Deflectior	n L/8	52 (0.172")	42.3%	n	\a	1	06-0	2-14				

n\a

n\a

2

1

06-02-14

06-02-14

				% Allow	% Allow		
Beari	ng Supports	Dim. (LxW)	Value	Support	Member	Material	
B1	Wall/Plate	2-3/8" x 2"	410 lbs	20.3%	40.0%	Unspecified	
B2	Wall/Plate	2-3/8" x 2"	416 lbs	20.6%	40.5%	Unspecified	

45.1%

17.2%

#### Notes

Max Defl.

Span / Depth

Live Load Deflection

Design meets User specified (L/360) Total load deflection criteria.

L/1065 (0.138")

0.172"

15.4

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

 $\operatorname{BC}\operatorname{CALC}{\ensuremath{\mathbb R}}$  analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



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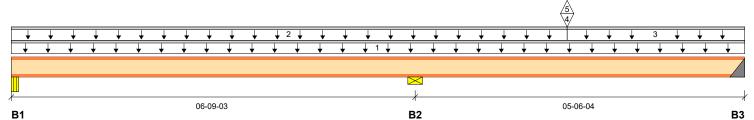
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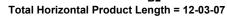
# 1st Floor\Floor Joists\J4-16" O.C.(i1021) (Floor Joist)

Dry | 2 spans | No cant, | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

BC CALC® Member Report	Dry   2 spans   No cant.   16 OCS   Repetitive	Glued & nailed December 22, 2021 10:
Build 8014		
Job name: Lot 323 Park Rid	ge File name:	Lot 323 Park Ridge.mmdl
Address:	Description:	1st Floor\Floor Joists\J4-16" O.C.(i1021)
City, State, Zip:	Specifier:	
Customer: KC-Truss & Pan	el Designer:	Don Happel
Code reports: ESR-1336	Company:	Boise Cascade BMD - Lee's Summit





#### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live	
B1, 2-7/16"	174 / 17	39 / 0				
B2, 3-1/2"	469 / 4	116 / 0				
B3, 2"	207 / 29	44 / 0				

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	12-03-07	Тор	27	7				
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	09-03-12	Тор	30	8				
3	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	09-03-12	12-03-07	Тор	50	13				
4	J8-16" O.C.(i1064)	Conc. Pt. (lbs)	L	09-03-12	09-03-12	Front	52	11				
5	J8-16" O.C.(i1064)	Conc. Pt. (lbs)	L	09-03-12	09-03-12	Front	-6					

<b>Controls Summary</b>	Value	% Allowable	Duration	Case	Location
Pos. Moment	305 ft-lbs	11.2%	100%	4	09-07-09
Neg. Moment	-318 ft-lbs	11.7%	100%	1	06-09-03
End Reaction	252 lbs	25.3%	100%	4	12-03-07
Int. Reaction	585 lbs	27.9%	100%	1	06-09-03
End Shear	236 lbs	16.0%	100%	4	12-01-07
Cont. Shear	292 lbs	19.8%	100%	1	06-10-15
Total Load Deflection	L/999 (0.017")	n∖a	n∖a	3	03-04-00
Live Load Deflection	L/999 (0.014")	n∖a	n∖a	7	03-04-00
Total Neg. Defl.	L/999 (-0.001")	n∖a	n∖a	3	07-10-14
Max Defl.	0.017"	n∖a	n∖a	3	03-04-00
Span / Depth	8.4				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	214 lbs	11.0%	20.8%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	585 lbs	19.7%	27.9%	Unspecified
B3	Hanger	2" x 2"	252 lbs	16.2%	25.3%	ITS2.06/9.5

#### Cautions

Header for the hanger ITS2.06/9.5 is a Double 1-3/4" x 9-1/2" LVL Beam.

Hanger ITS2.06/9.5 requires (2) 10d face nails, (4) 10d TF nails, (2) Strong-Grip joist nails.



# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J4-16" O.C.(i1021) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J4-16" O.C.(i1021)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J4-16" O.C.(i1028) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J4-16" O.C.(i1028)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

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B1	1							06-09	9-03								B2							05-0	6-04						<b>B</b> 3
											To	tal H	orizo	ontal	Proc	duct L	engt	h =	12-03	3-07											
		on S	um	mar	'y (E	Dow	vn /	Up	lift)																						
Bear					Liv					Dea					Sn	ow				Wi	ind				Roo	of L	ive				
	2-7/1					8/1				42																					
	3-1/2	2				2/0					5/0	)																			
B3,	2"				12	3/2	1			24	/0																				
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		d Defl						0.01			n\a				n\				5			-04-0									
		g. Def					•	-0.00	'		n\a				n\				2			.03-1									
	k Defl	-				0.0			,		n∖a				n١				2			-04-0									
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_	arin	g Su		orts		n. (L				Valu				oport		Mem			Mate												
B1		Bea				7/16'				219				2%		21.3			Uns												
B2			I/Pla	ite		1/2" :	x 2"			528				8%		25.1			Uns	•											
B3		Har	nger		2"	x 2"				147	lbs		9.5	%		14.8	8%		ITS2	2.06	6/9.5										

#### Cautions

Header for the hanger ITS2.06/9.5 is a Double 1-3/4" x 9-1/2" LVL Beam. Hanger ITS2.06/9.5 requires (2) 10d face nails, (4) 10d TF nails, (2) Strong-Grip joist nails.



# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J4-16" O.C.(i1028) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J4-16" O.C.(i1028)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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#### Single 9-1/2" BCI® 5000s-1.8



December 22, 2021 10:31:03

1st Floor\Floor Joists\J4-16" O.C.(i1039) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

Build 8014				
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl	
Address:		Description:	1st Floor\Floor Joists\J4-16" O.C.(i1039)	
City, State, Zip:		Specifier:		
Customer:	KC-Truss & Panel	Designer:	Don Happel	
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit	

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	<u> </u>			+ +	+ +	+ $+$ $+$	· + ·	+ +	+ +	+ + +	· •
۲ ۲			12-00	6-15							
B1		Total Ho	orizontal Prod	uct Lenat	h = 12-06	-15					B2
Reaction Summa	rv (Down / L										
Bearing	Live	Dead	Sno	w		Wind		Roo	f Live		
31, 2-7/16"	167 / 0	224 / 0									
32, 3-1/2"	165 / 0	359 / 0									
_oad Summary						Live	Dead	Snow	Wind	Roof Live	OC
an Description		Type Ref	Start	End	Loc	100%	90%	115%	160%	125%	

Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	Live 125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	12-05-03	Тор	27	7				n\a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	05-01-15	Тор		13				n\a
3	68(i125)	Unf. Lin. (lb/ft)	L	05-05-15	12-02-14	Тор		57				n∖a
4	67(i124)	Conc. Pt. (lbs)	L	05-04-03	05-04-03	Тор		38				n∖a
5	51(i108)	Conc. Pt. (lbs)	L	12-05-02	12-05-02	Тор		14				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1462 ft-lbs	53.7%	100%	1	06-07-07
End Reaction	524 lbs	46.5%	100%	1	12-06-15
End Shear	505 lbs	34.2%	100%	1	12-03-07
Total Load Deflection	L/737 (0.199")	48.9%	n∖a	1	06-05-03
Live Load Deflection	L/999 (0.069")	n∖a	n\a	2	06-02-15
Max Defl.	0.199"	19.9%	n∖a	1	06-05-03
Span / Depth	15.4				

Beari	ng Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	391 lbs	20.0%	38.0%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	524 lbs	17.6%	46.5%	Unspecified

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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#### Single 9-1/2" BCI® 5000s-1.8



ENGINEERED WOOD PRODUCTS		1st Floor	Floor	Joists\J4-	16" O C (i	780)	(Floor Jo	ist)				
BC CALC® Membe	r Report	Dry   1 span			•		•		De	ecember	22 2021	10:31:03
Build 8014		,	1.10.0		-			-			,	
Job name:	Lot 323 Pa	rk Ridge			File name	:	Lot 323 Pa	ark Ridg	e.mmdl			
Address:		0			Descriptio	on:	1st Floor\F	•		6" O.C.(i	780)	
City, State, Zip:					Specifier:							
Customer:	KC-Truss 8	k Panel			Designer		Don Happ	el				
Code reports:	ESR-1336				Company	:	Boise Cas	cade BN	/ID - Lee	s Summ	nit	
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<i>k</i>				12-	05-13							
B1		т	otal Ho	orizontal Pro	duct Lonath	= 12_0	15-13					B2
Reaction Sum	nary (Dow				uuci Lengin	- 12-0	/5-15					
Bearing	Live	Dead		Sr	now		Wind		Roo	f Live		
B1, 2-7/16"	269 / 0	196 /	0									
B2, 2-3/8"	269 / 0	195 /	0									
Load Summary	/						Live	Dead	Snow	Wind	Roof Live	ocs
Tag Description		Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1 FC2 Floor De View Fill)	cking (Plan	Unf. Lin. (lb/ft)	L	00-00-00	12-05-13	Тор	43	11				n\a

1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	12-05-13	Тор	43	11	n∖a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	12-02-14	Тор		13	n∖a
3	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	05-01-15	Тор		8	n∖a
4	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	05-01-15	12-02-14	Тор		8	n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1403 ft-lbs	51.5%	100%	1	06-03-00
End Reaction	464 lbs	45.2%	100%	1	12-05-13
End Shear	455 lbs	30.8%	100%	1	00-02-07
Total Load Deflection	L/754 (0.194")	47.7%	n∖a	1	06-03-00
Live Load Deflection	L/999 (0.111")	n\a	n∖a	2	06-03-00
Max Defl.	0.194"	19.4%	n∖a	1	06-03-00
Span / Depth	15.4				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material	
B1	Beam	2-7/16" x 2"	465 lbs	23.8%	45.2%	Unspecified	
B2	Wall/Plate	2-3/8" x 2"	464 lbs	23.0%	45.2%	Unspecified	

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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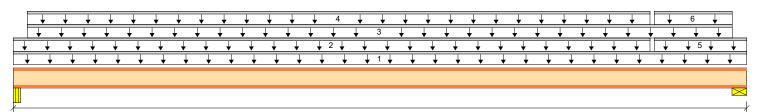
# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J4-16" O.C.(i786) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

BC CALC® Member	Report	Dry   1 span   No cant.   16 OCS	Repetitive   G	lued & nailed	December 22, 2021 10:31:03
Build 8014					
Job name:	Lot 323 Park Rid	ge	File name:	Lot 323 Park Ridge.mm	dl
Address:			Description:	1st Floor\Floor Joists\J4	-16" O.C.(i786)
City, State, Zip:			Specifier:		
Customer:	KC-Truss & Pane	el	Designer:	Don Happel	
Code reports:	ESR-1336		Company:	Boise Cascade BMD - L	ee's Summit



**B1** 

12-05-13

**B2** 

# Total Horizontal Product Length = 12-05-13 Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 2-7/16"	229 / 0	164 / 0			
B2, 2-3/8"	233 / 0	165 / 0			

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	12-05-13	Тор	27	7				n\a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	10-10-01	Тор	10	3				n\a
3	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	12-02-14	Тор		13				n∖a
4	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	10-10-01	Тор		4				n∖a
5	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	10-10-15	12-05-13	Тор	13	3				n∖a
6	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	10-10-15	12-02-14	Тор		5				n∖a

<b>Controls Summary</b>	Value	% Allowable	Duration	Case	Location
Pos. Moment	1187 ft-lbs	43.6%	100%	1	06-02-11
End Reaction	398 lbs	38.8%	100%	1	12-05-13
End Shear	389 lbs	26.3%	100%	1	12-03-07
Total Load Deflection	L/891 (0.164")	40.4%	n∖a	1	06-02-11
Live Load Deflection	L/999 (0.095")	n\a	n\a	2	06-02-11
Max Defl.	0.164"	16.4%	n∖a	1	06-02-11
Span / Depth	15.4				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	393 lbs	20.1%	38.2%	Unspecified
B2	Wall/Plate	2-3/8" x 2"	398 lbs	19.7%	38.8%	Unspecified



# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J4-16" O.C.(i786) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J4-16" O.C.(i786)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



# Single 9-1/2" BCI® 5000s-1.8



December 22, 2021 10:31:03

# 1st Floor\Floor Joists\J4-16" O.C.(i787) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J4-16" O.C.(i787)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

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$\times$												$\overline{}$
1 <b>D</b> 4				12-	-05-12							7
B1			Tatal II	wine what Due	ماد مخال من منظام	- 40.05 4	•					B2
				orizontal Pro	auct Length	1 = 12-05-1	2					
Reaction Sumr	nary (Dov	vn / Uplift) (lb	s)									
Bearing	Live	De	ad	S	now	V	Vind		Roo	f Live		
31, 2-3/8"	296 / 0	) 74	·/0									
32, 2-3/8"	316 / 0	79	0/0									
	_						Live	Dead	Snow	Wind	Roof	ocs
Load Summary	/						LIVE	Deau	5110	wind	Live	000
ag Description		Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
FC2 Floor Dee	cking (Plan	Unf. Lin. (lb/ft)	L	00-00-00	12-05-12	Тор	27	7				n\a
View Fill)	0 (	( )										
2 FC2 Floor De	cking (Plan	Unf. Lin. (lb/ft)	L	00-00-00	07-11-06	Тор	20	5				n\a
View Fill)	<b>3</b> (1 1 1 1					1-		÷				
FC2 Floor De	cking (Plan	Unf. Lin. (lb/ft)	L	07-11-06	12-05-12	Top	27	7				n\a
View Fill)	oning (Fian		-	07 11 00	12 00 12	TOP	21	,				
Controls Sumn	nary <sub>Val</sub>		% Allow	abla D	Ouration	Case	Loca	tion				
Pos. Moment		27 ft-lbs	41.4%		00%			5-02				
		27 11-105	41.470		0070		00-0	J-UZ				

Pos. Moment	1127 ft-lbs	41.4%	100%	1	06-05-02
End Reaction	395 lbs	38.5%	100%	1	12-05-12
End Shear	382 lbs	25.9%	100%	1	12-03-06
Total Load Deflection	L/936 (0.157")	38.5%	n\a	1	06-02-08
Live Load Deflection	L/1170 (0.125")	41.0%	n\a	2	06-02-08
Max Defl.	0.157"	15.7%	n∖a	1	06-02-08
Span / Depth	15.4				

_	Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
	B1	Wall/Plate	2-3/8" x 2"	371 lbs	18.4%	36.1%	Unspecified
	B2	Wall/Plate	2-3/8" x 2"	395 lbs	19.6%	38.5%	Unspecified

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

 $\operatorname{BC}\operatorname{CALC}\nolimits \ensuremath{\mathbb{R}}$  analysis is based on IBC 2009.

Composite El value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J4-16" O.C.(i789) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J4-16" O.C.(i789)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

B1			1	12-05-12							B2
ы		Total H	lorizontal Pr	roduct Length	= 12-05-1	2					DZ
Reaction Summa	ry (Down / Upl	ift) (lbs)									
Bearing	Live	Dead		Snow	v	Vind		Roo	f Live		
31, 2-3/8"	328 / 0	82 / 0									
32, 2-3/8"	328 / 0	82 / 0									
Load Summary						Live	Dead	Snow	Wind	Roof Live	003
Tag Description	Load Ty	ype Ref	. Start	End	Loc.	100%	90%	115%	160%	125%	
1 FC2 Floor Decki View Fill)		n. (lb/ft) L	00-00-00	0 12-05-12	Тор	53	13				n\a
View Fill) Controls Summa	ng (Plan Unf. Lir	n. (lb/ft) L % Allov	00-00-00	0 12-05-12 Duration	Top Case	53 Loca	-				n\;
View Fill) Controls Summa	ng (Plan Unf. Lir	, , ,	00-00-00				tion				n\;
View Fill) Controls Summa Pos. Moment	ng (Plan Unf. Lir <b>ry Value</b>	% Allov	00-00-00	Duration	Case	Loca	<u>tion</u> 2-14				n\a
View Fill) Controls Summa Pos. Moment End Reaction	ng (Plan Unf. Lir <b>ry Value</b> 1223 ft-lbs 409 lbs 396 lbs	<mark>% Allov</mark> 44.9% 39.9% 26.9%	00-00-00 vable	Duration 100%	Case	<b>Loca</b> 06-0	<u>tion</u> 2-14 0-00				n\a
View Fill) Controls Summa Pos. Moment End Reaction End Shear	ng (Plan Unf. Lir <b>ry Value</b> 1223 ft-lbs 409 lbs 396 lbs L/865 (0.169	<mark>% Allov</mark> 44.9% 39.9% 26.9% 9") 41.6%	00-00-00 vable	<b>Duration</b> 100% 100%	Case 1 1 1 1	Loca 06-0 00-0	<b>tion</b> 2-14 0-00 2-06				n\a
View Fill) Controls Summa Pos. Moment End Reaction End Shear Fotal Load Deflection Live Load Deflection	ng (Plan Unf. Lir <b>ry Value</b> 1223 ft-lbs 409 lbs 396 lbs L/865 (0.169 L/1082 (0.13	% Allow           44.9%           39.9%           26.9%           9")         41.6%           85")         44.4%	00-00-00	Duration 100% 100% 100%	Case	Loca 06-0 00-0 00-0 06-0 06-0	tion 2-14 0-00 2-06 2-14 2-14				n\a
View Fill) Controls Summa Pos. Moment End Reaction End Shear Fotal Load Deflection Live Load Deflection Max Defl.	ry Value 1223 ft-lbs 409 lbs 396 lbs L/865 (0.169 L/1082 (0.13 0.169"	<mark>% Allov</mark> 44.9% 39.9% 26.9% 9") 41.6%	00-00-00	Duration 100% 100% 100% n\a	Case 1 1 1 1	Loca 06-0 00-0 00-0 06-0	tion 2-14 0-00 2-06 2-14 2-14				n\a
View Fill) Controls Summa Pos. Moment End Reaction End Shear Fotal Load Deflection Live Load Deflection Max Defl.	ng (Plan Unf. Lir <b>ry Value</b> 1223 ft-lbs 409 lbs 396 lbs L/865 (0.169 L/1082 (0.13	% Allow           44.9%           39.9%           26.9%           9")         41.6%           85")         44.4%	00-00-00	Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 06-0 00-0 00-0 06-0 06-0	tion 2-14 0-00 2-06 2-14 2-14				n\
View Fill) Controls Summa Pos. Moment End Reaction End Shear Total Load Deflection Live Load Deflection Max Defl. Span / Depth Bearing Support	ng (Plan Unf. Lir <b>ry Value</b> 1223 ft-lbs 409 lbs 396 lbs L/865 (0.169 L/1082 (0.13 0.169" 15.4 <b>S Dim. (LxW)</b>	% Allow           44.9%           39.9%           26.9%           9")         41.6%           85")         44.4%	00-00-00	Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2 1 Materia	Loca 06-0 00-0 06-0 06-0 06-0	tion 2-14 0-00 2-06 2-14 2-14				n\
	ng (Plan Unf. Lir <b>ry Value</b> 1223 ft-lbs 409 lbs 396 lbs L/865 (0.169 L/1082 (0.13 0.169" 15.4	% Allov           44.9%           39.9%           26.9%           9")         41.6%           35")         44.4%           16.9%	00-00-00 vable % Allow	Duration 100% 100% 100% n\a n\a n\a % Allow	Case 1 1 1 1 2 1	Loca 06-0 00-0 06-0 06-0 06-0	tion 2-14 0-00 2-06 2-14 2-14				n\

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J4-16" O.C.(i849) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

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$\overline{+}$ $+$ $+$ $+$ $+$ $+$	+ + + +	+ +	+ $+$ $+$	1↓↓,	+ + +	↓ ·	↓ ↓	+ +	+ +	+ +	+ +
Π											$\mathbf{\boxtimes}$
₩ <i>⊀</i>											
B1			12-0	05-13							B2
		Total Ho	rizontal Proc	duct Length	= 12-05-1	3					
Reaction Summary (Down	n / Uplift) (Ibs	5)									
Bearing Live	Dea		Sn	ow	v	lind		Roo	of Live		
B1, 2-7/16" 333 / 0	243	3/0									
B2, 2-3/8" 333 / 0	243	3/0									
Load Summary						Live	Dead	Snow	Wind	Roof	OCS
•	Lood Turns	Def	Chart	Find	1	4000/	00%	4450/	4000/	Live	
	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1 FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	12-05-13	Тор	53	13				n\a
2 FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-14	12-02-14	Тор		27				n\a
Controls Summary Value	)	% Allowa	able D	uration	Case	Loca	tion				

Pos. Moment	1740 ft-lbs	63.8%	100%	1	06-02-15
End Reaction	576 lbs	56.1%	100%	1	12-05-13
End Shear	563 lbs	38.2%	100%	1	00-02-07
Total Load Deflection	L/608 (0.241")	59.2%	n\a	1	06-02-15
Live Load Deflection	L/1064 (0.138")	45.1%	n\a	2	06-02-15
Max Defl.	0.241"	24.1%	n\a	1	06-02-15
Span / Depth	15.4				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	576 lbs	29.5%	56.0%	Unspecified
B2	Wall/Plate	2-3/8" x 2"	576 lbs	28.5%	56.1%	Unspecified

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



December 22, 2021 10:31:03

# 1st Floor\Floor Joists\J4-16" O.C.(i849) - 01 (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J4-16" O.C.(i849)
City, State, Zip: Customer: Code reports:	KC-Truss & Panel ESR-1336	Specifier: Designer: Company:	Don Happel Boise Cascade BMD - Lee's Summit

Π													
₽ – B1					12-	05-13							∤ B2
DI				Total Ho	rizontal Prod	duct Length	= 12-05-1	3					D2
Rea	action Summary (	Dowi	n / Uplift) (lbs			<b>J</b>							
Bear		ve	Dea	,	Sn	ow	v	Vind		Roo	f Live		
B1, :	2-7/16" 33	33 / 0	243	3/0									
B2, 1	2-3/8" 33	33 / 0	243	3 / 0									
Loa	ad Summary							Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description		Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (P View Fill)	lan	Unf. Lin. (lb/ft)	L	00-00-00	12-05-13	Тор	53	13				n\a
2	FC2 Floor Decking (P View Fill)	lan	Unf. Lin. (lb/ft)	L	00-02-14	12-02-14	Тор		27				n\a
Со	ntrols Summary	Value	9	% Allowa	ble D	uration	Case	Loca	tion				
0~~	Moment	17/0	) ft-lbs	63.8%	1	00%	1	06.0	2-15				

Pos. Moment	1740 ft-lbs	63.8%	100%	1	06-02-15
End Reaction	576 lbs	56.1%	100%	1	12-05-13
End Shear	563 lbs	38.2%	100%	1	00-02-07
Total Load Deflection	L/608 (0.241")	59.2%	n\a	1	06-02-15
Live Load Deflection	L/1064 (0.138")	45.1%	n\a	2	06-02-15
Max Defl.	0.241"	24.1%	n\a	1	06-02-15
Span / Depth	15.4				

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	576 lbs	29.5%	56.0%	Unspecified
B2	Wall/Plate	2-3/8" x 2"	576 lbs	28.5%	56.1%	Unspecified

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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	Boise Cascade®	
V	ENGINEERED WOOD PRODUCTS	



Boise Ca	wood products		Single	e 9-1/2"	BCI® 50	00s-1.8	8				F	PASSED
ENGINEERED	WOOD PRODUCTS	1st Floo	r\Floor	Joists\J4-	16" O.C.(i	852) (FI	oor Joi	st)				
BC CALC®	Member Report			ant.   16 OC					De	ecember	22, 20	21 10:31:03
Build 8014	·			·								
Job name:	Lot 323 Pa	rk Ridge			File name	e: Lo	t 323 Pa	rk Ridge	e.mmdl			
Address:					Descriptio	on: 1s	t Floor\F	loor Jois	sts\J4-16	6" O.C.(i8	852)	
City, State,	, Zip:				Specifier:							
Customer:	KC-Truss &	k Panel			Designer:	Do	on Happe	el				
Code repo	rts: ESR-1336				Company	: Bo	oise Cas	cade BN	1D - Lee'	's Summ	nit	
+	<b>↓ ↓ ↓ ↓ 3</b>	+ + + +	+ +	+ + •	+ + +	+ +	↓ ↓ 4	+ +	+ +	+ +	¥ ,	↓ ↓
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<b>↓</b> ↓												
												$\mathbf{X}$
ł				12-	05-13							/
B1												B2
<b>D</b>	<b>0</b> (D			rizontal Pro	duct Length	= 12-05-1	3					
Reaction Bearing	ו Summary (Dow <sub>Live</sub>	n / Uplift) (ibs Dea		6.	low	v	Vind		Baa	f Live		
B1, 2-7/16			5/0	31	IOW	V	vina		RUU	LIVE		
B1, 2-7/10 B2, 2-3/8"	166 / 0		2/0									
B2, 2 0/0	10070	123	., .									
Load Su	mmarv						Live	Dead	Snow	Wind	Roof	ocs
	-										Live	
Tag Descr		Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1 FC2 F View	Floor Decking (Plan	Unf. Lin. (Ib/ft)	L	00-00-00	12-05-13	Тор	27	7				n\a
2 62(i1	,	Unf. Lin. (lb/ft)	L	00-02-14	12-02-14	Top		57				n\a
•	Floor Decking (Plan	Unf. Lin. (lb/ft)	L	00-02-14	05-01-15			13				n\a
View	Fill)		L	00-02-14	05-01-15	төр		15				II\a
4 FC2 F View	Floor Decking (Plan Fill)	Unf. Lin. (Ib/ft)	L	05-01-15	12-02-14	Тор		5				n\a
Controls	Summary Valu	e	% Allowa	able D	uration	Case	Loca	tion				

Controls Summary	value	% Allowable	Duration	Case	Location
Pos. Moment	1829 ft-lbs	67.1%	100%	1	06-01-13
End Reaction	612 lbs	59.4%	100%	1	00-00-00
End Shear	605 lbs	41.0%	100%	1	00-02-07
Total Load Deflection	L/578 (0.254")	62.3%	n∖a	1	06-03-00
Live Load Deflection	L/999 (0.069")	n\a	n∖a	2	06-03-00
Max Defl.	0.254"	25.4%	n∖a	1	06-03-00
Span / Depth	15.4				

E	Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
E	31	Beam	2-7/16" x 2"	612 lbs	31.3%	59.4%	Unspecified
E	32	Wall/Plate	2-3/8" x 2"	588 lbs	29.1%	57.3%	Unspecified

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



December 22, 2021 10:31:03

# 1st Floor\Floor Joists\J4-16" O.C.(i982) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J4-16" O.C.(i982)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

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Π																	$\mathbf{\boxtimes}$														
							(	06-09-	03								1							05-09	-12						1
31																	B2														B3
											Tot	al He	orizo	ontal	Proc	luct	Leng	th =	12-0	6-15											

# Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	
B1, 2-7/16"	164 / 12	38 / 0			
B2, 3-1/2"	395 / 0	99 / 0			
B3, 3-1/2"	126 / 24	34 / 0			

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	12-05-03	Тор	22	6				n∖a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	11-04-15	Тор	31	8				n∖a
3	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	11-04-15	12-03-07	Тор	19	5				n∖a
4	51(i108)	Conc. Pt. (lbs)	L	12-05-02	12-05-02	Тор		9				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	279 ft-lbs	10.2%	100%	2	03-00-06
Neg. Moment	-266 ft-lbs	9.7%	100%	1	06-09-03
End Reaction	202 lbs	19.6%	100%	2	00-00-00
Int. Reaction	494 lbs	23.5%	100%	1	06-09-03
End Shear	189 lbs	12.8%	100%	2	00-02-07
Cont. Shear	251 lbs	17.0%	100%	1	06-07-07
Total Load Deflection	L/999 (0.016")	n\a	n∖a	2	03-04-00
Live Load Deflection	L/999 (0.013")	n\a	n∖a	5	03-04-00
Total Neg. Defl.	L/999 (-0.001")	n\a	n∖a	2	08-04-02
Max Defl.	0.016"	n\a	n∖a	2	03-04-00
Span / Depth	8.4				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	202 lbs	10.3%	19.6%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	494 lbs	16.6%	23.5%	Unspecified
B3	Wall/Plate	3-1/2" x 2"	160 lbs	5.4%	14.2%	Unspecified

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

Roof Live

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# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J5-16" O.C.(i1035) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Roof Live

		2		
Code reports:	ESR-1336		Company:	Boise Cascade BMD - Lee's Summit
Customer:	KC-Truss & Panel		Designer:	Don Happel
City, State, Zip:			Specifier:	
Address:			Description:	1st Floor\Floor Joists\J5-16" O.C.(i1035)
Job name:	Lot 323 Park Ridge		File name:	Lot 323 Park Ridge.mmdl
Build 8014				

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51																			B2											в

Total Horizontal Product Length = 10-09-03

Snow

Wind

# Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead
B1, 2-7/16"	146 / 4	54 / 0
B2, 3-1/2"	317 / 0	169 / 0
B3, 2"	92 / 34	1/0

Lo	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	<b>90%</b>	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	10-09-03	Тор	48	12				n\a
2	66(i123)	Conc. Pt. (lbs)	L	04-11-02	04-11-02	Тор		94				n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	305 ft-lbs	11.2%	100%	2	03-03-15
Neg. Moment	-250 ft-lbs	9.2%	100%	1	06-09-03
End Reaction	200 lbs	19.4%	100%	2	00-00-00
Int. Reaction	486 lbs	23.2%	100%	1	06-09-03
End Shear	188 lbs	12.7%	100%	2	00-02-07
Cont. Shear	296 lbs	20.1%	100%	1	06-07-07
Total Load Deflection	L/999 (0.018")	n∖a	n∖a	2	03-06-02
Live Load Deflection	L/999 (0.011")	n∖a	n∖a	5	03-03-15
Total Neg. Defl.	L/999 (-0.001")	n∖a	n∖a	2	08-02-12
Max Defl.	0.018"	n∖a	n∖a	2	03-06-02
Span / Depth	8.4				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	200 lbs	10.2%	19.4%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	486 lbs	16.3%	23.2%	Unspecified
B3	Hanger	2" x 2"	93 lbs	6.7%	9.3%	ITS2.06/9.5

# Cautions

Header for the hanger ITS2.06/9.5 is a Single 1-3/4" x 9-1/2" LVL Beam. Hanger ITS2.06/9.5 requires (2) 10dx1.5 face nails, (4) 10dx1.5 TF nails, (2) Strong-Grip joist nails.



# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J5-16" O.C.(i1035) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J5-16" O.C.(i1035)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



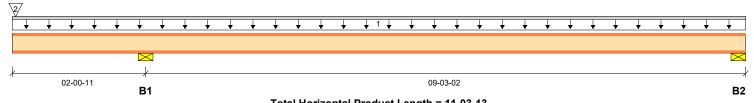
# 1st Floor/Floor Joists/J5-16" O.C.(i818) (Floor Joist)

Dry | 2 spans | L cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Roof Live

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J5-16" O.C.(i818)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



#### Total Horizontal Product Length = 11-03-13

Snow

Wind

# Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead
B1, 3-1/2"	391 / 0	194 / 0
B2, 2-3/8"	268 / 13	46 / 0

Load Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1 FC2 Floor Decking ( View Fill)	(Plan Unf. Lin. (lb/ft)	L	00-00-00	) 11-03-13	Тор	57	14				n∖a
2 E32(i100)	Conc. Pt. (lbs)	L	00-00-10	00-00-10	Тор		79				n\a
<b>Controls Summary</b>	Value	% Allow	able	Duration	Case	Loca	tion				
Pos. Moment	651 ft-lbs	23.9%		100%	3	06-1	0-11				
Neg. Moment	-309 ft-lbs	11.4%		100%	1	02-0	0-11				
End Reaction	315 lbs	30.6%		100%	3	11-0	3-13				
Int. Reaction	585 lbs	27.9%		100%	1	02-0	0-11				
End Shear	300 lbs	20.4%		100%	3	11-0	1-07				
Cont. Shear	349 lbs	23.7%		100%	1	02-0	2-07				
Total Load Deflection	L/999 (0.056")	n∖a		n\a	3	06-0	7-15				
Live Load Deflection	L/999 (0.051")	n∖a		n∖a	6	06-0	7-15				
Total Neg. Defl.	2xL/1998 (-0.021")	n∖a		n∖a	3	00-0	0-00				
Max Defl.	0.056"	n∖a		n∖a	3	06-0	7-15				
Cant. Max Defl.	-0.021"	n∖a		n∖a	3	00-0	0-00				
Span / Depth	11.5										
Bearing Supports	Dim. (LxW) Valı	le	% Allow Support	% Allow Member	Materia	ıl					

Dearing	Joupports	Dim. (LxW)	Value	Support	Member	Material
B1	Wall/Plate	3-1/2" x 2"	585 lbs	19.7%	27.9%	Unspecified
B2	Wall/Plate	2-3/8" x 2"	315 lbs	15.6%	30.6%	Unspecified

# Cautions

Design assumes Top and Bottom flanges to be restrained.



# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J5-16" O.C.(i818) (Floor Joist)

Dry | 2 spans | L cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J5-16" O.C.(i818)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (1") Cantilever Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Cantilevers require sheathed bottom flanges, blocking at cantilever support and closure at ends.

Calculations assume member is fully braced.

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	CR Member	Report			or\Floor	<b>e 9-1/2</b> Joists\. ant.   16 (	J5-	-16" O.C	C.(i9	971) (F	loo				De	cembe	<b>F</b> r 22, 20		<b>SED</b> 0:31:03
Build 80 Job nam Address City, Sta	ie: :	Lot 323 Pa	nrk Ridge					File na Descrij Specifi	ptior				ırk Ridç loor Jo	-		6" O.C.(i	i971)		
Custome Code re	er:	KC-Truss a ESR-1336						Design Compa	ner:			Happe Case		MD - I	Lee'	s Sumr	nit		
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	· · · ·																		
<sup>1</sup> B1							10-	-09-03											B2
		~				orizontal F	Proc	duct Lenç	gth =	= 10-09-	03								
Reacti Bearing	on Summ	ary (Dow Live	/n / Uplift	Dea (	,		Sr	now			Win	d		F	Roof	f Live			
B1, 2-7/	16"	91/0			0/0			-								-			
B2, 49-3	/4"	197 / 0		483	3 / 0														
Load S	Summary										Li	ive	Dead	Sno	ow	Wind	Roof Live		ocs
Tag Des		in a (Dian	Load Type		Ref.	Start		End		Loc.		00%	90% 7	115	5%	160%	125%		
Vie	2 Floor Deck w Fill) (i120)	ang (Plan	Unf. Lin. ( Unf. Lin. (	,	L	00-00-0		10-09-0 10-09-0		Тор Тор	2	1	7 57						n∖a n∖a
3 FC	2 Floor Deck w Fill)	king (Plan	Unf. Lin. (	,	L	00-02-		10-09-0					2						n∖a
Contro		<b>.</b>					_			-									
Pos. Mo	ols Summ		ue ft-lbs		% Allow 18.1%	able	_	ouration 00%		Case 1		Loca 03-04							
End Rea		-	lbs		60.4%			00%		1		10-09	-						
End She	ar	296	blbs		20.1%		1	00%		1		06-07	7-07						
Total Lo	ad Deflectior	n L/9	99 (0.026")		n∖a		'n	\a		1		03-04	4-15						
Live Loa	d Deflection	L/9	99 (0.008")		n∖a		'n	\a		2		03-04	4-15						
Max Def		0.0	26"		n∖a		'n	\a		1		03-04	4-15						
Span / D	-	8.3																	
Dist. Loa	. ,		26 lb/ft		4.0%			00%											
Conc. Lo	bad (B2)	1 lb	S		n\a		1	00%											
	g Suppor			Valu		% Allow Support		% Allow Member		Mater						<b>OSUR</b> he Boise	Cascade	e Sof	ware is
B1 B2	Beam Wall/Plate	2-7/16" 49-3/4"		301 680		15.4% 1.6%		29.2% 60.4%		Unsp Unsp				Lice Con	nse nplet	Agreem teness a	rms of the ent (EUL nd accur d and ve	.A). acy o	f input
Notes														qual	lified	l enginee	er or othe	er app	ropriate
Design r Design r	neets User s neets User s neets arbitra neets arbitra	pecified (L/ ry (1") Max	480) Live lo imum Total	ad de load c	flection	criteria. n criteria.	а.							anyo evid appl builo	one lence licati ding	relying o e of suita on. The code-ac	cepted d	utput a par ere is lesign	as ticular based on
-	C® analysis	• • •												prop	pertie	es and a	nalysis m	netho	ds.

BC CALC® analysis is based on IBC 2009.

Composite El value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation. BC CALC®, BC FRAMER® , AJS™,

Installation of Boise Cascade



# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J5-16" O.C.(i996) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Roof Live

Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl	
Address:		Description:	1st Floor\Floor Joists\J5-16" O.C.(i996)	
City, State, Zip:		Specifier:		
Customer:	KC-Truss & Panel	Designer:	Don Happel	
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit	

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									06-0	9-03									1					04-	-00-00					
81																			B2											B

Total Horizontal Product Length = 10-09-03

Snow

Wind

# Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead
B1, 2-7/16"	132 / 4	47 / 0
B2, 3-1/2"	286 / 0	144 / 0
B3, 2"	83 / 30	2/0

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	<b>90%</b>	115%	160%	125%	
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	10-09-03	Тор	43	11				n\a
2	66(i123)	Conc. Pt. (lbs)	L	04-11-02	04-11-02	Тор		76				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	270 ft-lbs	9.9%	100%	2	03-03-03
Neg. Moment	-220 ft-lbs	8.1%	100%	1	06-09-03
End Reaction	178 lbs	17.3%	100%	2	00-00-00
Int. Reaction	430 lbs	20.5%	100%	1	06-09-03
End Shear	168 lbs	11.4%	100%	2	00-02-07
Cont. Shear	260 lbs	17.6%	100%	1	06-07-07
Total Load Deflection	L/999 (0.016")	n∖a	n∖a	2	03-06-02
Live Load Deflection	L/999 (0.01")	n∖a	n∖a	5	03-03-15
Total Neg. Defl.	L/999 (-0.001")	n∖a	n∖a	2	08-02-12
Max Defl.	0.016"	n∖a	n∖a	2	03-06-02
Span / Depth	8.4				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 2"	178 lbs	9.1%	17.3%	Unspecified
B2	Wall/Plate	3-1/2" x 2"	430 lbs	14.4%	20.5%	Unspecified
B3	Hanger	2" x 2"	85 lbs	6.1%	8.5%	ITS2.06/9.5

# Cautions

Header for the hanger ITS2.06/9.5 is a Single 1-3/4" x 9-1/2" LVL Beam. Hanger ITS2.06/9.5 requires (2) 10dx1.5 face nails, (4) 10dx1.5 TF nails, (2) Strong-Grip joist nails.



# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor/Floor Joists/J5-16" O.C.(i996) (Floor Joist)

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J5-16" O.C.(i996)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8

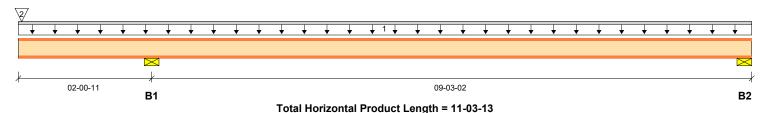


# 1st Floor\Floor Joists\J5-16" O.C.(i997) (Floor Joist)

Dry | 2 spans | L cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J5-16" O.C.(i997)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit



# Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 3-1/2"	365 / 0	184 / 0			
B2, 2-3/8"	249 / 12	42 / 0			

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	OCS
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	-	Unf. Lin. (lb/ft)	L	00-00-00	11-03-13	Тор	53	13				n\a
2	E32(i100)	Conc. Pt. (lbs)	L	00-00-10	00-00-10	Тор		76				n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	607 ft-lbs	22.3%	100%	3	06-10-11
Neg. Moment	-294 ft-lbs	10.8%	100%	1	02-00-11
End Reaction	292 lbs	28.4%	100%	3	11-03-13
Int. Reaction	550 lbs	26.2%	100%	1	02-00-11
End Shear	280 lbs	19.0%	100%	3	11-01-07
Cont. Shear	327 lbs	22.1%	100%	1	02-02-07
Total Load Deflection	L/999 (0.052")	n∖a	n∖a	3	06-07-15
Live Load Deflection	L/999 (0.047")	n∖a	n\a	6	06-07-15
Total Neg. Defl.	2xL/1998 (-0.019")	n∖a	n∖a	3	00-00-00
Max Defl.	0.052"	n∖a	n∖a	3	06-07-15
Cant. Max Defl.	-0.019"	n∖a	n\a	3	00-00-00
Span / Depth	11.5				

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	3-1/2" x 2"	550 lbs	18.5%	26.2%	Unspecified
B2	Wall/Plate	2-3/8" x 2"	292 lbs	14.4%	28.4%	Unspecified

### Cautions

Design assumes Top and Bottom flanges to be restrained.

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (1") Cantilever Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Composite El value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Cantilevers require sheathed bottom flanges, blocking at cantilever support and closure at ends. Calculations assume member is fully braced.

# Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor/Floor Joists\J6-16" O.C.(i1027) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J6-16" O.C.(i1027)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

<i>к</i> B1						09-09-02							
DI				Total H	lorizontal P	roduct Length	= 09-09-02	2					52
Reaction Su	ummary		า / Uplift)	• •									
Bearing		Live		Dead		Snow	N	Vind		Roo	f Live		
31, 2"		259/0		65 / 0									
32, 2-3/8"		261/0		65 / 0									
Load Summ	nary							Live	Dead	Snow	Wind	Roof	003
Tag Descriptio	on		Load Type	Ret	. Start	End	Loc.	100%	90%	115%	160%	Live 125%	
View Fill)	r Decking	(Plan	Unf. Lin. (I	b/ft) L	00-00-0	0 09-09-02	Тор	53	13				n\a
View Fill)	-		·	b/ft) L % Allov		0 09-09-02 Duration	Top Case	53 Loca					n\a
View Fill) Controls Su	-		9						tion				n\a
View Fill) Controls Su Pos. Moment	-	/ Value	e ft-lbs	% Allo		Duration		Loca	<u>tion</u> 0-06				n\a
View Fill) Controls Su Pos. Moment End Reaction End Shear	ummary	<b>Value</b> 755 1 324   313	e ft-Ibs bs bs	% Allo 27.7%		Duration 100%		<b>Loca</b> 04-1	<u>tion</u> 0-06 0-00				n\a
View Fill) Controls Su Pos. Moment End Reaction End Shear	ummary	<b>Value</b> 755 1 324   313	e ft-lbs bs	% Allo 27.7% 32.6%		<b>Duration</b> 100% 100%		Loca 04-1 00-0	tion 0-06 0-00 2-00				n\a
View Fill) Controls Su Pos. Moment End Reaction End Shear Total Load Def	ummary lection	/ Value 755 1 324   313   L/999	e ft-Ibs bs bs	% Allo 27.7% 32.6% 21.2%		Duration 100% 100% 100%		Loca 04-1 00-0 00-0	tion 0-06 0-00 2-00 0-06				n\a
View Fill) Controls Su Pos. Moment End Reaction End Shear Fotal Load Defle ive Load Defle	ummary lection	/ Value 755 1 324   313   L/999	e ft-lbs bs bs 9 (0.069") 9 (0.055")	<mark>% Allo</mark> 27.7% 32.6% 21.2% n∖a		Duration 100% 100% 100% n\a	Case 1 1 1 1 1	Loca 04-1 00-0 00-0 04-1	tion 0-06 0-00 2-00 0-06 0-06				n\a
View Fill) Controls SL Pos. Moment End Reaction End Shear Total Load Defle Vive Load Defle Max Defl.	ummary lection	/ Value 755 1 324 1 313 1 L/999 L/999	e ft-lbs bs bs 9 (0.069") 9 (0.055")	% Alloo 27.7% 32.6% 21.2% n\a n\a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-1 00-0 00-0 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				n\
View Fill) Controls Su Pos. Moment End Reaction End Shear Total Load Defle Live Load Defle Max Defl. Span / Depth	ummary lection ection	/ Value 7551 3241 3131 L/999 L/999 0.065	e ft-lbs bs 9 (0.069") 9 (0.055") 9"	% Alloo 27.7% 32.6% 21.2% n\a n\a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-1 00-0 00-0 04-1 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				U/s
	ummary lection ection pports	/ Value 755 1 324 1 313 1 L/999 L/999 0.069 12.0	e ft-lbs bs 9 (0.069") 9 (0.055") 9"	% Allor 27.7% 32.6% 21.2% n\a n\a n\a	wable % Allow	Duration 100% 100% 100% n\a n\a n\a % Allow	Case 1 1 1 1 2 1	Loca 04-1 00-0 00-0 04-1 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				n\a

### Cautions

Hanger model ITS2.06/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

 $\operatorname{BC}\operatorname{CALC}\nolimits {\mathbb R}$  analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



1st Floor\Floor Joists\J6-16" O.C.(i1027) - 01 (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03 Build 8014 Job name: Lot 323 Park Ridge File name: Lot 323 Park Ridge.mmdl Description: 1st Floor\Floor Joists\J6-16" O.C.(i1027) Address: City, State, Zip: Specifier: **KC-Truss & Panel** Designer: Customer: Don Happel Code reports: ESR-1336 Company: Boise Cascade BMD - Lee's Summit

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Reaction Bearing	on 31	umm	ary	Live) /		n / (	upii		Dea					Snow	,			Wi	nd			Poo	of Liv	0			
B1, 2"				259					65 /					51104				VVI	nu			NOU		6			
B2, 2-3/8	8"			261	/0				65 /	0																	
Load S	Sumn	narv																	Live	Dead	S	now	Wi	ind	Roof		ocs
Tag Des		-					d Ty			R	.f	6	tart		End		.oc.		100%	90%	4	15%	16	0%	Live 125%	,	
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Pos. Mo					755		S			27.7%				1009			1			10-06							
End Rea					324					32.6%				1009			1			00-00							
End She					313		0001	•		21.2%	6			1009	%		1			02-00							
Total Loa						•	.069'	,		n∖a				n∖a			1			10-06							
Live Loa Max Def		ecuon			0.06	•	.055'	)		า∖a า∖a				n∖a n∖a			2 1		• •	10-06 10-06							
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opun, D	Jopui				12.0																						
											%	Alle	ow	%	Allow	,											
Bearin	ıg Su	ppor	ts		ı. (Lx	W)			alue			upp			ember		Mate	-									
B1	Han	•		2" x					24 lk			\a			2.6%		ITS2										
B2	Wall	/Plate	;	2-3	/8" x	2"		3	26 lk	os	1	6.2%	6	31	1.8%		Unsp	peci	ified								

### Cautions

Hanger model ITS2.06/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



1st Floor\Floor Joists\J6-16" O.C.(i1027) - 02 (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J6-16" O.C.(i1027)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

.∤ B1						09-09-02							∤ B2
BI				Total	Horizontal F	Product Length	= 09-09-02	2					BZ
Reaction Su	ummary	y (Dowi	n / Uplift)	) (lbs)									
Bearing		Live		Dead		Snow	N	Vind		Roo	f Live		
B1, 2"		259 / 0		65 / 0									
B2, 2-3/8"		261/0		65 / 0									
Load Sumn	nary							Live	Dead	Snow	Wind	Roof	003
Tag Descriptio	on		Load Type	R	ef. Start	End	Loc.	100%	90%	115%	160%	Live 125%	
		(=)		1 /6()	00.00		-		4.0				1
1 FC2 Floo View Fill)		(Plan	Unf. Lin. (I	b/ft) L	00-00-0	00 09-09-02	Тор	53	13				n∖a
View Fill)	-		,	,	00-00-0	00 09-09-02	Lop Case	53 Loca					n\a
View Fill) Controls Su	-	/ Value	,	,	owable				tion				n\a
View Fill) <b>Controls Su</b> Pos. Moment	-	/ Value	e ft-lbs	ý % All	wable	Duration		Loca	<u>tion</u> 0-06				n\a
View Fill) <b>Controls Su</b> Pos. Moment End Reaction	-	/ Value 755 1	e ft-lbs lbs	% All 27.79	owable	Duration 100%		<b>Loca</b> 04-1	<u>tion</u> 0-06 0-00				n\a
View Fill) Controls Su Pos. Moment End Reaction End Shear	ummary	<b>Value</b> 755 324 313	e ft-lbs lbs	% All 27.79 32.69	owable	<b>Duration</b> 100% 100%		Loca 04-1 00-0	tion 0-06 0-00 2-00				n\a
View Fill) Controls Su Pos. Moment End Reaction End Shear Total Load Def	ummary	/ Value 755 324 313 L/99	e ft-lbs lbs lbs	% All 27.79 32.69 21.29	owable	<b>Duration</b> 100% 100% 100%	Case 1 1 1	Loca 04-1 00-0 00-0	tion 0-06 0-00 2-00 0-06				n\a
View Fill) Controls Su Pos. Moment End Reaction End Shear Total Load Def Live Load Defle	ummary	/ Value 755 324 313 L/99	e ft-lbs lbs lbs 9 (0.069") 9 (0.055")	% All 27.79 32.69 21.29 n\a	owable	Duration 100% 100% 100% n\a	Case 1 1 1 1 1	Loca 04-1 00-0 00-0 04-1	tion 0-06 0-00 2-00 0-06 0-06				n\a
View Fill) Controls Su Pos. Moment End Reaction End Shear Total Load Defi Live Load Defi Max Defl.	ummary	/ Value 755 324 313 L/99 L/99	e ft-lbs lbs lbs 9 (0.069") 9 (0.055") 9"	% All 27.79 32.69 21.29 n\a n\a	owable	Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-1 00-0 00-0 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				n\;
View Fill) <b>Controls Su</b> Pos. Moment End Reaction End Shear Total Load Defl Live Load Defl Max Defl. Span / Depth	ummary flection ection	/ Value 755 324 313 L/99 L/99 0.06	e ft-lbs lbs lbs 9 (0.069") 9 (0.055") 9"	% All 27.79 32.69 21.29 n\a n\a	owable	Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-1 00-0 00-0 04-1 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				nk
	ummary flection ection pports	/ Value 755 324 313 L/99 L/99 L/99 12.0	e ft-lbs lbs lbs 9 (0.069") 9 (0.055") 9"	% All 27.79 32.69 21.29 n\a n\a n\a	wable	Duration 100% 100% 100% n\a n\a n\a % Allow	Case 1 1 1 1 2 1	Loca 04-1 00-0 00-0 04-1 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				nk

### Cautions

Hanger model ITS2.06/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

 $\operatorname{BC}\operatorname{CALC}\nolimits\!\mathbbR$  analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



1st Floor\Floor Joists\J6-16" O.C.(i1027) - 03 (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J6-16" O.C.(i1027)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

г В1			(	09-09-02							B2
B1		Total H	orizontal Pi	roduct Length	= 09-09-02	2					BZ
<b>Reaction Summa</b>	ry (Down / Uplift	) (lbs)									
Bearing	Live	Dead		Snow	N	Vind		Roo	f Live		
31, 2"	259 / 0	65 / 0									
32, 2-3/8"	261 / 0	65 / 0									
Load Summary						Live	Dead	Snow	Wind	Roof Live	ос
Tag Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
			00.00.0	0 00 00 00	<b>-</b>	50	4.0				
1 FC2 Floor Deckir View Fill)	ng (Plan Unf. Lin. (	id/π) L	00-00-0	0 09-09-02	Тор	53	13				n\
View Fill)		ιο/π) L % Allow		Duration	Lop Case	53 Loca					n
View Fill) Controls Summa		% Allow 27.7%		Duration 100%			tion				n
View Fill) Controls Summa Pos. Moment End Reaction	<b>ry Value</b> 755 ft-lbs 324 lbs	% Allow 27.7% 32.6%		<b>Duration</b> 100% 100%		<b>Loca</b> 04-1 00-0	<u>tion</u> 0-06 0-00				n
View Fill) Controls Summa Pos. Moment End Reaction End Shear	<b>ry Value</b> 755 ft-lbs 324 lbs 313 lbs	<mark>% Allow</mark> 27.7% 32.6% 21.2%		Duration 100% 100% 100%		Loca 04-1 00-0 00-0	<u>tion</u> 0-06 0-00 2-00				n
View Fill) Controls Summa Pos. Moment End Reaction End Shear Fotal Load Deflection	<b>ry Value</b> 755 ft-lbs 324 lbs 313 lbs L/999 (0.069")	<mark>% Allow</mark> 27.7% 32.6% 21.2% n∖a		Duration 100% 100% 100% n\a	Case 1 1 1 1 1	Loca 04-1 00-0 00-0 04-1	tion 0-06 0-00 2-00 0-06				n
View Fill) Controls Summa Pos. Moment End Reaction End Shear Fotal Load Deflection Live Load Deflection	<b>ry Value</b> 755 ft-lbs 324 lbs 313 lbs L/999 (0.069") L/999 (0.055")	<mark>% Allow</mark> 27.7% 32.6% 21.2% n\a n\a		Duration 100% 100% 100%	Case 1 1 1 1 2	Loca 04-1 00-0 00-0 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				n
View Fill) Controls Summa Pos. Moment End Reaction End Shear Fotal Load Deflection Live Load Deflection Max Defl.	<b>ry Value</b> 755 ft-lbs 324 lbs 313 lbs L/999 (0.069") L/999 (0.055") 0.069"	<mark>% Allow</mark> 27.7% 32.6% 21.2% n∖a		Duration 100% 100% 100% n\a	Case 1 1 1 1 1	Loca 04-1 00-0 00-0 04-1	tion 0-06 0-00 2-00 0-06 0-06				n
View Fill) Controls Summa Pos. Moment End Reaction End Shear Fotal Load Deflection Live Load Deflection Max Defl.	<b>ry Value</b> 755 ft-lbs 324 lbs 313 lbs L/999 (0.069") L/999 (0.055")	<mark>% Allow</mark> 27.7% 32.6% 21.2% n\a n\a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-1 00-0 00-0 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				'n
View Fill) Controls Summa Pos. Moment End Reaction End Shear Total Load Deflection Live Load Deflection Max Defl. Span / Depth	<b>ry Value</b> 755 ft-lbs 324 lbs 313 lbs L/999 (0.069") L/999 (0.055") 0.069" 12.0	<mark>% Allow</mark> 27.7% 32.6% 21.2% n\a n\a	vable % Allow	Duration 100% 100% 100% n\a n\a n\a % Allow	Case 1 1 1 1 2	Loca 04-1 00-0 00-0 04-1 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				n
	<b>ry Value</b> 755 ft-lbs 324 lbs 313 lbs L/999 (0.069") L/999 (0.055") 0.069" 12.0	% Allow 27.7% 32.6% 21.2% n\a n\a n\a	rable	Duration 100% 100% 100% n\a n\a n\a	Case 1 1 1 1 2 1	Loca 04-1 00-0 00-0 04-1 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				'n

### Cautions

Hanger model ITS2.06/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

 $\operatorname{BC}\operatorname{CALC}\nolimits {\mathbb R}$  analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

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# Single 9-1/2" BCI® 5000s-1.8



1st Floor\Floor Joists\J6-16" O.C.(i1027) - 04 (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J6-16" O.C.(i1027)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

<u>}</u>														
B1						C	9-09-02							B2
					al Horiz	ontal Pr	oduct Length	= 09-09-02	2					
Reaction Su	ummar		n / Uplift	• •										
Bearing		Live		Dead			Snow	N	Vind		Roo	f Live		
B1, 2"		259/0		65 / 0										
32, 2-3/8"		261/0		65 / 0										
Load Summ	narv								Live	Dead	Snow	Wind	Roof	oc
Tag Descriptio	-		Load Type	F	Ref.	Start	End	Loc.	4000/		44 50/	4000/	Live	
								LUC.	100%	90%	115%	160%	125%	
1 FC2 Floor View Fill)	r Decking	ı (Plan	Unf. Lin. (I			0-00-00		Тор	<b>100%</b> 53	<b>90%</b> 13	115%	160%	125%	n\;
1 FC2 Floor	r Decking		Unf. Lin. (I	b/ft) L		0-00-00				13	115%	160%	125%	n\
FC2 Floor View Fill)	r Decking	/ Value	Unf. Lin. (I	b/ft) L	_ C	)0-00-00 e	) 09-09-02	Тор	53	13 tion	115%	160%	125%	n\;
FC2 Floor View Fill) Controls Su Pos. Moment	r Decking	/ Value	Unf. Lin. (I e ft-Ibs	b/ft) L % <b>A</b> l	- C Ilowabl	)0-00-00 e	09-09-02	Тор	53 Loca	13 <u>tion</u> 0-06	115%	160%	125%	n\;
FC2 Floor View Fill) Controls Su Pos. Moment End Reaction End Shear	r Decking <b>ummary</b>	<b>Value</b> 755 324 313	Unf. Lin. (I e ft-Ibs Ibs Ibs	b/ft) L <u>% Al</u> 27.7	_ 0  lowabl	00-00-00	09-09-02 <b>Duration</b> 100%	Тор	53 Loca 04-1 00-0 00-0	13 tion 0-06 0-00 2-00	115%	160%	125%	n∖
FC2 Floor View Fill) Controls Su Pos. Moment End Reaction End Shear Total Load Defl	r Decking <b>ummary</b> lection	<b>/ Value</b> 755 324 313 L/99	Unf. Lin. (l e ft-lbs lbs lbs 9 (0.069")	b/ft) L <u>% Al</u> 27.7 32.6	_ 0  lowabl	00-00-00 e	09-09-02 Duration 100% 100%	Top <b>Case</b> 1 1 1 1 1	53 04-1 00-0 00-0 04-1	13 tion 0-06 0-00 2-00 0-06	115%	160%	125%	n∖
FC2 Floor View Fill) Controls Su Pos. Moment End Reaction End Shear Total Load Defle Live Load Defle	r Decking <b>ummary</b> lection	<b>Value</b> 755 324 313 L/99 L/99	Unf. Lin. (l e ft-lbs lbs lbs 9 (0.069") 9 (0.055")	b/ft) L <u>% Al</u> 27.7 32.6 21.2 n\a n\a	_ 0  lowabl	00-00-00 e	09-09-02 <u>Duration</u> 100% 100% 100% n\a n\a	Top <b>Case</b> 1 1 1 1 2	53 <b>Loca</b> 04-1 00-0 00-0 04-1 04-1	13 <u>tion</u> 0-06 0-00 2-00 0-06 0-06	115%	160%	125%	n∖
FC2 Floor View Fill) Controls Su Pos. Moment End Reaction End Shear Total Load Defl Live Load Defle Max Defl.	r Decking <b>ummary</b> lection	<b>Value</b> 755 324 313 L/99 L/99 0.06	Unf. Lin. (l e ft-lbs lbs 9 (0.069") 9 (0.055") 9"	b/ft) L <u>% Al</u> 27.7 32.6 21.2 n\a	_ 0  lowabl	00-00-00 e	09-09-02 Duration 100% 100% 100% n\a	Top <b>Case</b> 1 1 1 1 1	53 04-1 00-0 00-0 04-1	13 <u>tion</u> 0-06 0-00 2-00 0-06 0-06	115%	160%	125%	n∖
FC2 Floor View Fill) Controls Su Pos. Moment End Reaction End Shear Total Load Defle Live Load Defle	r Decking <b>ummary</b> lection	<b>Value</b> 755 324 313 L/99 L/99	Unf. Lin. (l e ft-lbs lbs 9 (0.069") 9 (0.055") 9"	b/ft) L <u>% Al</u> 27.7 32.6 21.2 n\a n\a	_ 0  lowabl	00-00-00 e	09-09-02 <u>Duration</u> 100% 100% 100% n\a n\a	Top <b>Case</b> 1 1 1 1 2	53 <b>Loca</b> 04-1 00-0 00-0 04-1 04-1	13 <u>tion</u> 0-06 0-00 2-00 0-06 0-06	115%	160%	125%	n∖
FC2 Floor View Fill) Controls Su Pos. Moment End Reaction End Shear Total Load Defl Live Load Defle Max Defl.	r Decking ummary lection ection	Value 755 324 313 L/99 L/99 0.06 12.0	Unf. Lin. (I e ft-Ibs Ibs 9 (0.069") 9 (0.055") 9"	b/ft) L <u>% Al</u> 27.7 32.6 21.2 n\a n\a	_ C  lowabl % % % %	00-00-00 e	09-09-02 <u>Duration</u> 100% 100% 100% n\a n\a	Top <b>Case</b> 1 1 1 1 2	53 04-1 00-0 00-0 04-1 04-1 04-1	13 <u>tion</u> 0-06 0-00 2-00 0-06 0-06	115%	160%	125%	n\
FC2 Floor View Fill) Controls Su Pos. Moment End Reaction End Shear Total Load Defl Live Load Defle Max Defl. Span / Depth	r Decking ummary lection ection pports	Value 755 324 313 L/99 L/99 L/99 12.0	Unf. Lin. (I e ft-Ibs Ibs 9 (0.069") 9 (0.055") 9"	b/ft) L % <b>Al</b> 27.7 32.6 21.2 n\a n\a n\a	_ C  lowabl % % % %	e Allow pport	09-09-02 Duration 100% 100% 100% n\a n\a n\a % Allow	Top 1 1 1 1 2 1	53 04-1 00-0 00-0 04-1 04-1 04-1	13 <u>tion</u> 0-06 0-00 2-00 0-06 0-06	115%	160%	125%	n\

### Cautions

Hanger model ITS2.06/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

 $\operatorname{BC}\operatorname{CALC}\nolimits \ensuremath{\mathbb{R}}$  analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



# Single 9-1/2" BCI® 5000s-1.8



1st Floor\Floor Joists\J6-16" O.C.(i1027) - 05 (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J6-16" O.C.(i1027)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

г В1			(	09-09-02							B2
B1		Total H	orizontal Pi	roduct Length	= 09-09-02	2					BZ
<b>Reaction Summa</b>	ry (Down / Uplift	) (lbs)									
Bearing	Live	Dead		Snow	N	Vind		Roo	f Live		
31, 2"	259 / 0	65 / 0									
32, 2-3/8"	261 / 0	65 / 0									
Load Summary						Live	Dead	Snow	Wind	Roof Live	ос
Tag Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
			00.00.0	0 00 00 00	<b>-</b>	50	4.0				
1 FC2 Floor Deckir View Fill)	ng (Plan Unf. Lin. (	id/π) L	00-00-0	0 09-09-02	Тор	53	13				n\
View Fill)		ιο/π) L % Allow		Duration	Lop Case	53 Loca					n
View Fill) Controls Summa		% Allow 27.7%		Duration 100%			tion				n
View Fill) Controls Summa Pos. Moment End Reaction	<b>ry Value</b> 755 ft-lbs 324 lbs	% Allow 27.7% 32.6%		<b>Duration</b> 100% 100%		<b>Loca</b> 04-1 00-0	<u>tion</u> 0-06 0-00				n
View Fill) Controls Summa Pos. Moment End Reaction End Shear	<b>ry Value</b> 755 ft-lbs 324 lbs 313 lbs	<mark>% Allow</mark> 27.7% 32.6% 21.2%		Duration 100% 100% 100%		Loca 04-1 00-0 00-0	<u>tion</u> 0-06 0-00 2-00				n
View Fill) Controls Summa Pos. Moment End Reaction End Shear Fotal Load Deflection	<b>ry Value</b> 755 ft-lbs 324 lbs 313 lbs L/999 (0.069")	<mark>% Allow</mark> 27.7% 32.6% 21.2% n∖a		Duration 100% 100% 100% n\a	Case 1 1 1 1 1	Loca 04-1 00-0 00-0 04-1	tion 0-06 0-00 2-00 0-06				n
View Fill) Controls Summa Pos. Moment End Reaction End Shear Fotal Load Deflection Live Load Deflection	<b>ry Value</b> 755 ft-lbs 324 lbs 313 lbs L/999 (0.069") L/999 (0.055")	<mark>% Allow</mark> 27.7% 32.6% 21.2% n\a n\a		Duration 100% 100% 100%	Case 1 1 1 1 2	Loca 04-1 00-0 00-0 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				n
View Fill) Controls Summa Pos. Moment End Reaction End Shear Fotal Load Deflection Live Load Deflection Max Defl.	<b>ry Value</b> 755 ft-lbs 324 lbs 313 lbs L/999 (0.069") L/999 (0.055") 0.069"	<mark>% Allow</mark> 27.7% 32.6% 21.2% n∖a		Duration 100% 100% 100% n\a	Case 1 1 1 1 1	Loca 04-1 00-0 00-0 04-1	tion 0-06 0-00 2-00 0-06 0-06				n
View Fill) Controls Summa Pos. Moment End Reaction End Shear Fotal Load Deflection Live Load Deflection Max Defl.	<b>ry Value</b> 755 ft-lbs 324 lbs 313 lbs L/999 (0.069") L/999 (0.055")	<mark>% Allow</mark> 27.7% 32.6% 21.2% n\a n\a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-1 00-0 00-0 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				'n
View Fill) Controls Summa Pos. Moment End Reaction End Shear Total Load Deflection Live Load Deflection Max Defl. Span / Depth	<b>ry Value</b> 755 ft-lbs 324 lbs 313 lbs L/999 (0.069") L/999 (0.055") 0.069" 12.0	<mark>% Allow</mark> 27.7% 32.6% 21.2% n\a n\a	vable % Allow	Duration 100% 100% 100% n\a n\a n\a % Allow	Case 1 1 1 1 2	Loca 04-1 00-0 00-0 04-1 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				n
	<b>ry Value</b> 755 ft-lbs 324 lbs 313 lbs L/999 (0.069") L/999 (0.055") 0.069" 12.0	% Allow 27.7% 32.6% 21.2% n\a n\a n\a	rable	Duration 100% 100% 100% n\a n\a n\a	Case 1 1 1 1 2 1	Loca 04-1 00-0 00-0 04-1 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				'n

### Cautions

Hanger model ITS2.06/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

 $\operatorname{BC}\operatorname{CALC}\nolimits {\mathbb R}$  analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

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# Single 9-1/2" BCI® 5000s-1.8

PASSED

# 1st Floor\Floor Joists\J6-16" O.C.(i1027) - 06 (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J6-16" O.C.(i1027)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

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⊮ B1								09-09-02											 B2
5.					Total	Horizo	ontal P	roduct L	engtl	n = 0	9-09-0	2							52
Reacti	on Summar	y (Dowi	n / Uplift	:) (lbs	5)														
Bearing		Live		Dea				Snow			V	Vind		R	oof	Live			
B1, 2"		259 / 0		65	/ 0														
B2, 2-3/8	8"	261/0		65	/ 0														
Load S	Summary											Live	Dead	Sno	w	Wind	Ro Liv		008
Tag Des	scription		Load Type	•	Re	ef.	Start	E	nd	Lo	c.	100%	90%	115%	6	160%	125		
	2 Floor Decking w Fill)	ı (Plan	Unf. Lin. (	(lb/ft)	L	00	0-00-0	0 09-0	09-02	Tc	р	53	13						n\a
	ols Summary					owable		Duratio	on		Case	Loc	ation						
Pos. Mo			ft-lbs		27.7%			100%			1		0-06						
End Rea		324			32.6%			100%			1		00-00						
End She		313			21.2%	6		100%			1		)2-00						
	ad Deflection		9 (0.069")		n∖a			n∖a			1		0-06						
	d Deflection		9 (0.055")		n∖a			n∖a			2		0-06						
Max Def		0.06			n\a			n∖a			1	04-1	0-06						
Span / D	Depth	12.0																	
<u>Bearin</u>	g Supports	Dim. (Lx	W)	Valu	e		llow	% Al Merr		Ν	/lateria	al							
B1	Hanger	2" x 2"		324	lbs	n∖a		32.6	6%	ľ	TS2.0	6/9.5							
B2	Wall/Plate	2-3/8" x	2"	326	lbs	16.2	2%	31.8	3%	ι	Jnspe	cified							

### Cautions

Hanger model ITS2.06/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

 $\operatorname{BC}\operatorname{CALC}\nolimits \ensuremath{\mathbb{R}}$  analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



1st Floor\Floor Joists\J6-16" O.C.(i1027) - 07 (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03 Build 8014 Lot 323 Park Ridge.mmdl Job name: Lot 323 Park Ridge File name: Description: 1st Floor\Floor Joists\J6-16" O.C.(i1027) Address: City, State, Zip: Specifier: **KC-Truss & Panel** Designer: Customer: Don Happel Code reports: ESR-1336 Company: Boise Cascade BMD - Lee's Summit

+ +		+ + + + ,		+ +	↓ 1 ↓ ↓	+ + +	¥	↓ ↓	↓ ↓	+ +	+ + +	<b>, ,</b>
⊀ B1					09-09-02							⊀ B2
BI			Total H	lorizontal I	Product Length	= 09-09-0	2					BZ
Reactio	on Summar	y (Down / Uplif	t) (Ibs)									
Bearing		Live	Dead		Snow	v	Vind		Roo	f Live		
B1, 2"		259 / 0	65 / 0									
B2, 2-3/8	5"	261/0	65 / 0									
l oad S	ummary						Live	Dead	Snow	Wind	Roof	ocs
	cription	Load Typ	e Ref	. Start	End	Loc.	100%	90%	115%	160%	Live 125%	
	2 Floor Decking			00-00-		Тор	53	13	11070	100 /0	12070	n∖a
Viev	w Fill)											
Contro	Is Summary	V Value	% Allov	vable	Duration	Case	Loca	ition				
Pos. Mor		755 ft-lbs	27.7%		100%	1		0-06				
End Rea	ction	324 lbs	32.6%		100%	1	00-0	0-00				
End Shea	ar	313 lbs	21.2%		100%	1	00-0	2-00				
Total Loa	ad Deflection	L/999 (0.069")	n\a		n∖a	1	04-1	0-06				
Live Load	d Deflection	L/999 (0.055")	n\a		n∖a	2	04-1	0-06				
Max Defl		0.069" <sup>´</sup>	n\a		n∖a	1	04-1	0-06				
Span / D	epth	12.0										
				0/ 411	0/ 411							
Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Materia	al					
B1	Hanger	2" x 2"	324 lbs	n∖a	32.6%	ITS2.0	6/9.5					
B2	Wall/Plate	2-3/8" x 2"	326 lbs	16.2%	31.8%	Unspe	cified					

### Cautions

Hanger model ITS2.06/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor/Floor Joists/J6-16" O.C.(i1049) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit
Customer:	KC-Truss & Panel	Designer:	Don Happel
City, State, Zip:		Specifier:	
Address:		Description:	1st Floor\Floor Joists\J6-16" O.C.(i1049)
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Build 8014			

B1						09-01-06							B2
BI				Total I	lorizontal P	roduct Length	= 09-01-0	6					BZ
Reac	tion Summar	v (Dow	n / Uplift)			-							
Bearin		Live		Dead		Snow	v	Vind		Roo	f Live		
B1, 2-3	3/8"	254 / 0		64 / 0									
B2, 2"		253 / 0		63 / 0									
Load	Summary							Live	Dead	Snow	Wind	Roof Live	oc
Tag D	Description		Load Type	Re	f. Start	End	Loc.	100%	90%	115%	160%	125%	
	C2 Floor Decking /iew Fill)	g (Plan	Unf. Lin. (I	b/ft) L	00-00-0	0 09-01-06	Тор	56	14				n\a
Cont	rols Summar	<b>y</b> Valu	e	% Allo	wable	Duration	Case	Loca	tion				
	rols Summar		<mark>e</mark> ft-lbs	% Allo 25.1%		Duration 100%	Case 1		<u>tion</u> 6-14				
Pos. M End R	loment eaction		ft-lbs	25.1% 31.8%		100% 100%			6-14				
Pos. M End R End S	loment eaction hear	685	ft-lbs lbs	25.1%		100%		04-0 09-0 00-0	6-14 1-06 2-06				
Pos. M End R End S Total L	loment eaction hear ₋oad Deflection	685 316 304 L/99	ft-lbs lbs lbs 99 (0.056")	25.1% 31.8%		100% 100% 100% n\a	1 1 1 1	04-0 09-0 00-0 04-0	6-14 1-06 2-06 6-14				
Pos. M End R End S Total L Live Lo	loment eaction hear ₋oad Deflection oad Deflection	685 316 304 L/99 L/99	ft-lbs lbs lbs 99 (0.056") 99 (0.045")	25.1% 31.8% 20.6% n\a n\a		100% 100% 100% n\a n\a	1 1 1 2	04-0 09-0 00-0 04-0 04-0	6-14 1-06 2-06 6-14 6-14				
Pos. M End R End S Total L Live Lo Max D	loment eaction hear ∟oad Deflection oad Deflection vefl.	685 316 304 L/99 L/99 0.05	ft-lbs lbs lbs 9 (0.056") 9 (0.045") 66"	25.1% 31.8% 20.6% n\a		100% 100% 100% n\a	1 1 1 1	04-0 09-0 00-0 04-0	6-14 1-06 2-06 6-14 6-14				
Pos. M End R End S Total L Live Lo Max D	loment eaction hear ₋oad Deflection oad Deflection	685 316 304 L/99 L/99	ft-lbs lbs lbs 9 (0.056") 9 (0.045") 66"	25.1% 31.8% 20.6% n\a n\a		100% 100% 100% n\a n\a	1 1 1 2	04-0 09-0 00-0 04-0 04-0	6-14 1-06 2-06 6-14 6-14				
Pos. M End R End S Total L Live L Max D Span /	Noment eaction hear oad Deflection oad Deflection efl. ' Depth <b>ing Supports</b>	685 316 304 L/99 L/99 0.05 11.2 Dim. (Lx	ft-lbs lbs l9 (0.056") 9 (0.045") 66" 2	25.1% 31.8% 20.6% n\a n\a	% Allow Support	100% 100% 100% n\a n\a	1 1 1 2	04-0 09-0 00-0 04-0 04-0 04-0	6-14 1-06 2-06 6-14 6-14				
Pos. M End R End S Total L Live L Max D Span /	Noment eaction hear Load Deflection oad Deflection efl. / Depth	685 316 304 L/99 L/99 0.05 11.2	ft-lbs lbs l9 (0.056") 9 (0.045") 66" 2	25.1% 31.8% 20.6% n\a n\a	% Allow	100% 100% n\a n\a n\a <b>% Allow</b>	1 1 1 2 1	04-0 09-0 00-0 04-0 04-0 04-0	6-14 1-06 2-06 6-14 6-14				

### Cautions

Header for the hanger ITS2.06/9.5 is a Double 1-3/4" x 9-1/2" LVL Beam. Hanger ITS2.06/9.5 requires (2) 10d face nails, (4) 10d TF nails, (2) Strong-Grip joist nails.

#### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. Hanger Manufacturer: Simpson Strong-Tie, Inc. BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



1st Floor\Floor Joists\J6-16" O.C.(i1055) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J6-16" O.C.(i1055)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

1 1 I

TT

ł В1						09-01-06							B2
DI				Total I	lorizontal P	roduct Length	= 09-01-0	6					D2
<b>Reaction S</b>	Summar		n / Uplift)	) (Ibs)									
Bearing		Live		Dead		Snow	V	Vind		Roo	f Live		
B1, 2-3/8"		244 / 0		61/0									
B2, 2"		242 / 0		61 / 0									
Load Sumr	mary							Live	Dead	Snow	Wind	Roof Live	005
Tag Descripti	on		Load Type	Re	. Start	End	Loc.	100%	90%	115%	160%	125%	
1 FC2 Floc	or Deckino	ı (Plan	Unf. Lin. (I	b/ft) L	00-00-0	0 09-01-06	Тор	53	13				n\a
View Fill)							1.95	00	10				
View Fill)	)			% Allo		Duration	Case	Loca					
View Fill) Controls S	)		)		wable		·		tion				
View Fill) <b>Controls S</b> Pos. Moment	)	/ Value	e t-lbs	% Allo	wable	Duration	Case	Loca	<u>tion</u> 6-14				
View Fill) Controls S Pos. Moment End Reaction	)	/ Value 656 f	t-lbs bs	% Allo 24.1%	wable	Duration 100%	Case	<b>Loca</b> 04-0	<u>tion</u> 6-14 1-06				
View Fill) Controls S Pos. Moment End Reaction End Shear	) ummary	<b>Value</b> 656 f 303 l 292 l	t-lbs bs	<mark>% Allo</mark> 24.1% 30.5%	wable	<b>Duration</b> 100% 100%	Case 1 1	<b>Loca</b> 04-0 09-0	<u>tion</u> 6-14 1-06 2-06				
View Fill) Controls S Pos. Moment End Reaction End Shear Total Load De	) <b>ummary</b>	/ Value 656 f 303 l 292 l L/999	t-lbs bs bs	<mark>% Allo</mark> 24.1% 30.5% 19.8%	wable	Duration 100% 100% 100%	• Case 1 1 1	Loca 04-0 09-0 00-0	tion 6-14 1-06 2-06 6-14				
View Fill) Controls S Pos. Moment End Reaction End Shear Total Load De Live Load Def	) <b>ummary</b>	/ Value 656 f 303 l 292 l L/999	t-lbs bs bs 9 (0.054") 9 (0.043")	<mark>% Allo</mark> 24.1% 30.5% 19.8% n\a	wable	Duration 100% 100% 100% n∖a	Case 1 1 1 1	Loca 04-0 09-0 00-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				
View Fill) Controls S Pos. Moment End Reaction End Shear Total Load De Live Load Defl Max Defl.	) <b>ummary</b>	/ Value 656 f 303 l 292 l L/999 L/999	t-lbs bs bs 9 (0.054") 9 (0.043")	<mark>% Allo</mark> 24.1% 30.5% 19.8% n\a n\a	wable	Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-0 09-0 00-0 04-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				
	) ummary flection lection	/ Value 656 f 303 l 292 l L/999 L/999 0.054	e t-lbs bs bs 9 (0.054") 9 (0.043") 4	<mark>% Allo</mark> 24.1% 30.5% 19.8% n\a n\a	wable	Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-0 09-0 00-0 04-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				
View Fill) Controls S Pos. Moment End Reaction End Shear Total Load Def Live Load Defl Max Defl. Span / Depth Bearing Su	) ummary flection lection	/ Value 656 f 303 l 292 l L/999 L/999 0.054 11.2	• t-lbs bs 9 (0.054") 9 (0.043") 4" <b>∧)</b>	% Allo 24.1% 30.5% 19.8% n\a n\a n\a	wable % Allow	Duration 100% 100% 100% n\a n\a n\a % Allow	Case 1 1 1 1 2 1	Loca 04-0 09-0 00-0 04-0 04-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				

# Cautions

Header for the hanger ITS2.06/9.5 is a Double 1-3/4" x 9-1/2" LVL Beam. Hanger ITS2.06/9.5 requires (2) 10d face nails, (4) 10d TF nails, (2) Strong-Grip joist nails.

### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. Hanger Manufacturer: Simpson Strong-Tie, Inc. BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J6-16" O.C.(i1055) - 01 (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J6-16" O.C.(i1055)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

⊿ B1					09-01-06							B2
DI			Tota	Horizontal I	Product Length	= 09-01-0	6					D2
Reacti	ion Summar	y (Down / Upli			-							
Bearing		Live	Dead		Snow	v	Vind		Roo	f Live		
B1, 2-3/	/8"	244 / 0	61 / 0									
B2, 2"		242 / 0	61 / 0									
Load	Summary						Live	Dead	Snow	Wind	Roof Live	oc
Tag De	escription	Load Ty	be R	ef. Start	End	Loc.	100%	90%	115%	160%	125%	
			(11. (61)				50	1.0				1
	C2 Floor Decking ew Fill)	g (Plan Unf. Lin	(lb/ft) L	00-00-0	00 09-01-06	Тор	53	13				n\;
Vie			<b>`</b> ,	00-00-i owable	00 09-01-06 Duration	Lop Case	53 Loca	-				n
Vie Contre	ew Fill) ols Summar		<b>`</b> ,	owable				tion				n
Vie <b>Contro</b> Pos. Mo	ew Fill) ols Summar	<b>y</b> Value	% All	owable %	Duration	Case	Loca	<u>tion</u> 6-14				n
Vie <b>Contro</b> Pos. Mo End Rea	ew Fill) <b>ols Summar</b> oment action	<b>Y Value</b> 656 ft-lbs	% All 24.19	owable %	Duration 100%	Case	<b>Loca</b> 04-0	<u>tion</u> 6-14 1-06				n
Vie Contro Pos. Mo End Rea End She	ew Fill) <b>ols Summar</b> oment action	<b>Y Value</b> 656 ft-lbs 303 lbs	% All 24.1 <sup>0</sup> 30.5 <sup>0</sup> 19.8 <sup>0</sup>	owable %	<b>Duration</b> 100% 100%	Case	<b>Loca</b> 04-0 09-0	tion 6-14 1-06 2-06				nv
Vie Contro Pos. Mo End Rea End She Total Lo	ew Fill) <b>ols Summar</b> oment action ear	<b>Y Value</b> 656 ft-lbs 303 lbs 292 lbs	% All 24.1 30.5 19.8 ) n\a	owable %	<b>Duration</b> 100% 100% 100%	Case	Loca 04-0 09-0 00-0	tion 6-14 1-06 2-06 6-14				n\;
Vie Pos. Mc End Rea End She Total Lo Live Loa	ew Fill) ols Summar oment action ear oad Deflection ad Deflection	<b>Y Value</b> 656 ft-lbs 303 lbs 292 lbs L/999 (0.054"	% All 24.1 30.5 19.8 ) n\a	owable %	Duration 100% 100% 100% n\a	Case 1 1 1 1 1	Loca 04-0 09-0 00-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				n.
Vie Pos. Mo End Rea End She Total Lo Live Loa Max De	ew Fill) ols Summar oment action ear oad Deflection ad Deflection fl.	<b>Y Value</b> 656 ft-lbs 303 lbs 292 lbs L/999 (0.054" L/999 (0.043"	<mark>% All</mark> 24.1 <sup>(</sup> 30.5 <sup>(</sup> 19.8 <sup>(</sup> ) n\a ) n\a	owable %	Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-0 09-0 00-0 04-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				n
Vie Pos. Mo End Rea End She Total Lo Live Loa Max De Span / [	ew Fill) ols Summar oment action ear oad Deflection ad Deflection fl.	<b>Y Value</b> 656 ft-lbs 303 lbs 292 lbs L/999 (0.054" L/999 (0.043" 0.054" 11.2	<mark>% All</mark> 24.1 <sup>(</sup> 30.5 <sup>(</sup> 19.8 <sup>(</sup> ) n\a ) n\a	owable %	Duration 100% 100% 100% n\a n\a	Case 1 1 1 2 1 Materia	Loca 04-0 09-0 00-0 04-0 04-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				nv
Vie Pos. Mo End Rea End She Total Lo Live Loa Max De Span / [	ew Fill) ols Summar oment action ear bad Deflection ad Deflection fl. Depth	<b>Y Value</b> 656 ft-lbs 303 lbs 292 lbs L/999 (0.054" L/999 (0.043" 0.054" 11.2	% All 24.1⁰ 30.5⁰ 19.8⁰ ) n∖a ) n∖a n∖a	owable % % % Allow	Duration 100% 100% 100% n∖a n∖a n∖a % Allow	Case 1 1 1 1 2 1	Loca 04-0 09-0 00-0 04-0 04-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				n

# Cautions

Header for the hanger ITS2.06/9.5 is a Double 1-3/4" x 9-1/2" LVL Beam. Hanger ITS2.06/9.5 requires (2) 10d face nails, (4) 10d TF nails, (2) Strong-Grip joist nails.

#### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. Hanger Manufacturer: Simpson Strong-Tie, Inc. BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

#### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



1st Floor\Floor Joists\J6-16" O.C.(i1055) - 02 (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J6-16" O.C.(i1055)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

T

л В1						09-01-06							B2
ы				Total H	lorizontal P	Product Length	= 09-01-0	6					D2
Reacti	ion Summar	y (Down	/ Uplift)	(lbs)									
Bearing		Live		Dead		Snow	V	Vind		Roo	f Live		
31, 2-3/	8"	244 / 0		61/0									
32, 2"		242 / 0		61 / 0									
_oad S	Summary							Live	Dead	Snow	Wind	Roof Live	oc
Tag De	scription		Load Type	Ref	. Start	End	Loc.	100%	90%	115%	160%	125%	
	2 Floor Decking ew Fill)		Unf. Lin. (I	b/ft) L	00-00-0	00 09-01-06	Тор	53	13				n\a
Vie	2 Floor Decking	g (Plan	·	b/ft) L % Allov		Duration	Top Case	53 <b>Loca</b>					n\;
Vi∈ Contro	2 Floor Decking ew Fill) ols Summar	g (Plan							tion				n\
Vie <b>Contro</b> Pos. Mo	2 Floor Decking ew Fill) ols Summar oment	g (Plan <b>Y Value</b>	t-lbs	% Allov		Duration		Loca	<b>tion</b> 6-14				n\;
Vie <b>Contro</b> Pos. Mo End Rea	2 Floor Decking ew Fill) ols Summar oment action	g (Plan <b>Y Value</b> 656 ft	t-lbs bs	% Allov 24.1%		Duration 100%		<b>Loca</b> 04-0	<b>tion</b> 6-14 1-06				n∖
Vie Contro Pos. Mo End Rea End She	2 Floor Decking ew Fill) ols Summar oment action	g (Plan <b>Y Value</b> 656 ft 303 lk 292 lk	t-lbs bs	% Allov 24.1% 30.5%		<b>Duration</b> 100% 100%		<b>Loca</b> 04-0 09-0	<u>tion</u> 6-14 1-06 2-06				n\a
Vie Contro Pos. Mo End Rea End She Fotal Lo	2 Floor Decking ew Fill) ols Summar oment action ear	g (Plan <b>Y Value</b> 656 ft 303 lk 292 lk L/999	t-lbs bs	% Allov 24.1% 30.5% 19.8%		Duration 100% 100% 100%		Loca 04-0 09-0 00-0	tion 6-14 1-06 2-06 6-14				n\a
Vie Contro Pos. Mo End Rea End She Total Lo Live Loa	2 Floor Decking ew Fill) DIS Summar oment action ear bad Deflection ad Deflection	g (Plan <b>Y Value</b> 656 ft 303 lk 292 lk L/999	t-lbs bs bs (0.054") (0.043")	<mark>% Allov</mark> 24.1% 30.5% 19.8% n∖a		Duration 100% 100% 100% n\a	Case 1 1 1 1 1	Loca 04-0 09-0 00-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				n\a
Vie Pos. Mo End Rea End She Total Lo Live Loa Max Del	2 Floor Decking ew Fill) of source and action ear and Deflection fl.	g (Plan <b>Y Value</b> 656 ft 303 lk 292 lk L/999 L/999	t-lbs bs bs (0.054") (0.043")	% Allov 24.1% 30.5% 19.8% n∖a n∖a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-0 09-0 00-0 04-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				n\
Vie Pos. Mo End Rea End She Total Lo Live Loa Max Det Span / E	2 Floor Decking ew Fill) of source and action ear and Deflection fl.	g (Plan <b>Y Value</b> 656 ft 303 lk 292 lk L/999 L/999 0.054 11.2	t-lbs bs 9 (0.054") 9 (0.043") ,"	% Allov 24.1% 30.5% 19.8% n∖a n∖a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-0 09-0 00-0 04-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				n∖
Vie Contro Pos. Mo End Rea End She End She Total Lo Live Loa Max Det Span / E	2 Floor Decking ew Fill) ols Summar oment action ear ad Deflection fl. Depth	g (Plan <b>Y Value</b> 656 ft 303 lk 292 lk L/999 L/999 0.054 11.2	t-lbs bs 9 (0.054") 9 (0.043") "	% Allov 24.1% 30.5% 19.8% n\a n\a n\a	vable % Allow	Duration 100% 100% 100% n\a n\a n\a % Allow	Case 1 1 1 1 2 1	Loca 04-0 09-0 00-0 04-0 04-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				n∖

# Cautions

Header for the hanger ITS2.06/9.5 is a Double 1-3/4" x 9-1/2" LVL Beam. Hanger ITS2.06/9.5 requires (2) 10d face nails, (4) 10d TF nails, (2) Strong-Grip joist nails.

#### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. Hanger Manufacturer: Simpson Strong-Tie, Inc. BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor/Floor Joists/J6-16" O.C.(i1080) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J6-16" O.C.(i1080)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

1 1

B1					09-02-12							B2
51			Total	Horizontal P	Product Length	= 09-02-12	2					52
		y (Down / Uplif										
Bearing		Live 426 / 0	Dead 107 / 0		Snow	<u>N</u>	/ind		Roo	f Live		
	-15/16"											
B2, 2"		66 / 0	17 / 0									
Load	Summary						Live	Dead	Snow	Wind	Roof Live	003
Tag D	escription	Load Type	e Re	f. Start	End	Loc.	100%	90%	115%	160%	125%	
	C2 Floor Decking iew Fill)	g (Plan Unf. Lin.	(lb/ft) L	00-00-0	00 09-02-12	Тор	53	13				n\a
	rols Summar	V Value	% Allo	wahlo	Duration	Case	Loca	tion				
Pos. M		43 ft-lbs	1.6%	Wable	100%	0ase1		1-14				
	eaction	533 lbs	47.3%	)	100%	1		0-00				
End Sh	near	72 lbs	4.9%		100%	1		0-15				
Total L	oad Deflection	L/999 (0.001")	n∖a		n∖a	1	07-1	1-14				
Live Lo	ad Deflection	L/999 (0.001")	n\a		n∖a	2	07-1	1-14				
Max D	efl.	0.001"	n∖a		n∖a	1	07-1	1-14				
Span /		2.9										
Dist. Lo	oad (B1)	66.67 lb/ft	2.9%		100%							
Beari	ng Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Materia	nl					
B1	Wall/Plate	82-15/16" x 2"	533 lbs	0.8%	47.3%	Unspe						
B2	Hanger	2" x 2"	83 lbs	10.2%	8.3%	ITS2.0						

### Cautions

Hanger ITS2.06/9.5 requires (2) 10dx1.5 face nails, (4) 10dx1.5 TF nails, (2) Strong-Grip joist nails.

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

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# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J6-16" O.C.(i819) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J6-16" O.C.(i819)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

T

л В1						09-01-06							B2
ы				Total I	lorizontal F	Product Length	= 09-01-0	6					DZ
Reac	tion Summar	ry (Dowi	n / Uplift	) (lbs)									
Bearing		Live	-	Dead		Snow	V	Vind		Roo	f Live		
B1, 2-3	3/8"	227 / 0		57 / 0									
B2, 2"		225 / 0		56 / 0									
Load	Summary							Live	Dead	Snow	Wind	Roof Live	oc
Tag D	escription		Load Type	e Re	. Start	End	Loc.	100%	90%	115%	160%	125%	
1 F			11 6 1 . /	11- /64 )	00.00.0		-	= 0	10				(a)
	C2 Floor Decking iew Fill)	g (Plan	Unf. Lin. (	lb/ft) L	00-00-0	00 09-01-06	Тор	50	12				n۱
V				ιο/π) L % <b>Allo</b>		DU 09-01-06	Lop Case	50 Loca					n
v <b>Cont</b> t	iew Fill)		9	·			·		tion				n
V <b>Cont</b> Pos. M	iew Fill) rols Summar	' <b>y</b> Value	e ft-lbs	% Allo		Duration	·	Loca	<u>tion</u> 6-14				n
V <b>Cont</b> Pos. M End Re	iew Fill) r <b>ols Summar</b> loment eaction	<b>'Y Valu</b> 610 1	e ft-Ibs Ibs	% Allo 22.4%		Duration 100%	·	<b>Loca</b> 04-0	<u>tion</u> 6-14 1-06				n
V <b>Cont</b> Pos. M End Re End St	iew Fill) r <b>ols Summar</b> loment eaction	<b>Y Value</b> 610 281 271	e ft-Ibs Ibs	% Allo 22.4% 28.3%		<b>Duration</b> 100% 100%	·	<b>Loca</b> 04-0 09-0	<u>tion</u> 6-14 1-06 2-06				ΠΛ.
V <b>Cont</b> Pos. M End Re End Sl Total L	iew Fill) r <b>ols Summar</b> loment eaction near	<b>Y Value</b> 610 281 271 L/99	e ft-lbs lbs lbs	<mark>% Allo</mark> 22.4% 28.3% 18.4%		<b>Duration</b> 100% 100% 100%	·	Loca 04-0 09-0 00-0	<u>tion</u> 6-14 1-06 2-06 6-14				ΠX
V Pos. M End Re End Sh Total L Live Lo	iew Fill) rols Summar loment eaction near oad Deflection pad Deflection	<b>Y Value</b> 610 281 271 L/99	e ft-lbs lbs lbs 9 (0.05") 9 (0.04")	<mark>% Allo</mark> 22.4% 28.3% 18.4% n∖a		Duration 100% 100% 100% n\a	Case 1 1 1 1 1	Loca 04-0 09-0 00-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				n.
V Pos. N End Re End Sl Total L Live Lo Max D	iew Fill) rols Summar loment eaction near oad Deflection oad Deflection efl.	<b>Y Value</b> 610 281 271 L/99 L/99	e ft-Ibs Ibs 9 (0.05") 9 (0.04") "	<mark>% Allo</mark> 22.4% 28.3% 18.4% n\a n\a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-0 09-0 00-0 04-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				n
V Pos. N End Rd End SI Total L Live Lo Max D Span /	iew Fill) rols Summar loment eaction near oad Deflection oad Deflection efl.	<b>Y</b> Value 610 281 271 L/99 0.05 11.2	e ft-lbs lbs 9 (0.05") 9 (0.04") "	<mark>% Allo</mark> 22.4% 28.3% 18.4% n\a n\a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-0 09-0 00-0 04-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				n\a
V Pos. W End Re End SI Total L Live Lo Max D Span /	iew Fill) rols Summar loment eaction hear oad Deflection efl. Depth	<b>Y</b> Value 610 281 271 L/99 0.05 11.2	e ft-lbs lbs 9 (0.05") 9 (0.04") " W)	% Allo 22.4% 28.3% 18.4% n\a n\a n\a	wable % Allow	Duration 100% 100% n\a n\a n\a % Allow	Case 1 1 1 1 2 1	Loca 04-0 09-0 00-0 04-0 04-0 04-0	tion 6-14 1-06 2-06 6-14 6-14				nv

# Cautions

Header for the hanger ITS2.06/9.5 is a Double 1-3/4" x 9-1/2" LVL Beam. Hanger ITS2.06/9.5 requires (2) 10d face nails, (4) 10d TF nails, (2) Strong-Grip joist nails.

### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. Hanger Manufacturer: Simpson Strong-Tie, Inc. BC CALC® analysis is based on IBC 2009.

Composite El value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J6-16" O.C.(i861) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J6-16" O.C.(i861)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

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<i>k</i>				09-09-02							
B1		Total	lovinontol I			<b>^</b>					B2
Reaction Summa	ry (Down / Unli		Horizontari	Product Length	1 = 09-09-0	2					
Bearing	Live	Dead		Snow	v	Vind		Roo	f Live		
B1, 2"	177 / 0	44 / 0							-		
B2, 2-3/8"	178 / 0	45 / 0									
Load Summary						Live	Dead	Snow	Wind	Roof Live	003
Tag Description	Load Ty	pe Re	f. Start	End	Loc.	100%	90%	115%	160%	125%	
1 FC2 Floor Deckin View Fill)	g (Plan Unf. Lin	. (Ib/ft) L	00-00-	00 09-09-02	Тор	37	9				n\a
<b>Controls Summar</b>	' <b>y</b> Value	% Allo	wable	Duration	Case	Loca	ation				
Pos. Moment	516 ft-lbs	18.9%		100%	1	04-1	0-06				
End Reaction	222 lbs	22.3%		100%	1		00-00				
End Shear	214 lbs	14.5%		100%	1	00-0	)2-00				
Total Load Deflection	L/999 (0.047'	) n∖a		n∖a	1	04-1	0-06				
Live Load Deflection	L/999 (0.038'	) n\a		n\a	2	04-1	0-06				
Max Defl.	0.047"	n\a		n\a	1	04-1	0-06				
Span / Depth	12.0										
Bearing Supports		Value	% Allow Support	% Allow Member	Materia	al					
B1 Hanger	2" x 2"	222 lbs	n∖a	22.3%	ITS2.0	6/9.5					
B2 Wall/Plate	2-3/8" x 2"	223 lbs	11.0%	21.7%	Unspe	cified					

### Cautions

Hanger model ITS2.06/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

 $\operatorname{BC}\operatorname{CALC}\nolimits {\mathbb R}$  analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J6-16" O.C.(i973) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J6-16" O.C.(i973)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

*				09-09-02							
B1		Tatal II				•					B2
Poaction Summ	ary (Down / Uplift		orizontal Pr	roduct Length	= 09-09-0	2					
Bearing	Live	Dead		Snow	v	Vind		Roo	f Live		
31, 2"	242 / 0	61/0									
B2, 2-3/8"	244 / 0	61 / 0									
Load Summary						Live	Dead	Snow	Wind	Roof Live	OC
Tag Description	Load Type	e Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1 FC2 Floor Deck View Fill)	ing (Plan Unf. Lin.	(lb/ft) L	00-00-00	0 09-09-02	Тор	50	12				n\a
View Fill) Controls Summa	ary Value	% Allow		Duration	Top Case	Loca	ition				n\
View Fill) Controls Summa Pos. Moment	<b>ary Value</b> 705 ft-lbs	% Allow 25.9%		Duration 100%		<b>Loc</b> a 04-1	<b>ition</b> 0-06				n∖
View Fill) Controls Summa Pos. Moment End Reaction	<b>ary Value</b> 705 ft-lbs 303 lbs	% Allow 25.9% 30.5%		<b>Duration</b> 100% 100%	Case	<b>Loca</b> 04-1 00-0	ution 0-06 0-00				n\
View Fill) Controls Summa Pos. Moment End Reaction End Shear	<b>Ary Value</b> 705 ft-lbs 303 lbs 292 lbs	<mark>% Allow</mark> 25.9% 30.5% 19.8%		Duration 100% 100% 100%	<b>Case</b> 1 1 1	Loca 04-1 00-0 00-0	ttion 0-06 0-00 2-00				n\a
View Fill) Controls Summa Pos. Moment End Reaction End Shear Fotal Load Deflection	<b>Ary Value</b> 705 ft-lbs 303 lbs 292 lbs L/999 (0.064")	<mark>% Allow</mark> 25.9% 30.5% 19.8% n∖a		Duration 100% 100% 100% n\a	Case 1 1 1 1 1	Loca 04-1 00-0 00-0 04-1	tion 0-06 0-00 2-00 0-06				n∖
View Fill) Controls Summa Pos. Moment End Reaction End Shear Fotal Load Deflection Live Load Deflection	<b>Ary Value</b> 705 ft-lbs 303 lbs 292 lbs L/999 (0.064") L/999 (0.051")	<mark>% Allow</mark> 25.9% 30.5% 19.8% n∖a n∖a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-1 00-0 00-0 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				n\;
View Fill) Controls Summa Pos. Moment End Reaction End Shear Fotal Load Deflection Live Load Deflection Max Defl.	<b>ary Value</b> 705 ft-lbs 303 lbs 292 lbs L/999 (0.064") L/999 (0.051") 0.064"	<mark>% Allow</mark> 25.9% 30.5% 19.8% n∖a		Duration 100% 100% 100% n\a	Case 1 1 1 1 1	Loca 04-1 00-0 00-0 04-1	tion 0-06 0-00 2-00 0-06 0-06				n\a
View Fill) Controls Summa Pos. Moment End Reaction End Shear Fotal Load Deflection Live Load Deflection Max Defl.	<b>Ary Value</b> 705 ft-lbs 303 lbs 292 lbs L/999 (0.064") L/999 (0.051")	<mark>% Allow</mark> 25.9% 30.5% 19.8% n∖a n∖a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-1 00-0 00-0 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				n\
View Fill) Controls Summa Pos. Moment End Reaction End Shear Total Load Deflection Live Load Deflection Max Defl. Span / Depth	<b>Ary Value</b> 705 ft-lbs 303 lbs 292 lbs L/999 (0.064") L/999 (0.051") 0.064" 12.0	<mark>% Allow</mark> 25.9% 30.5% 19.8% n∖a n∖a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 04-1 00-0 00-0 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				n\
	<b>Ary Value</b> 705 ft-lbs 303 lbs 292 lbs L/999 (0.064") L/999 (0.051") 0.064" 12.0	% Allow 25.9% 30.5% 19.8% n∖a n∖a n∖a	vable % Allow	Duration 100% 100% n\a n\a n\a % Allow	Case 1 1 1 1 2 1	Loca 04-1 00-0 00-0 04-1 04-1 04-1	tion 0-06 0-00 2-00 0-06 0-06				n\a

### Cautions

Hanger model ITS2.06/9.5 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

 $\operatorname{BC}\operatorname{CALC}\nolimits \ensuremath{\mathbb{R}}$  analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

# Disclosure

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# Single 9-1/2" BCI® 5000s-1.8



# 1st Floor\Floor Joists\J7-16" O.C.(i783) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J7-16" O.C.(i783)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

л В1					04-02-14							B2
ы			Total H	lorizontal P	roduct Length	= 04-02-1	4					D2
Reac	tion Summar	y (Down / Uplift	:) (lbs)									
Bearin	g	Live	Dead		Snow	V	Vind		Roo	f Live		
31, 2"		112/0	28 / 0									
32, 2-3	3/8"	114 / 0	28 / 0									
_oad	Summary						Live	Dead	Snow	Wind	Roof Live	003
Tag D	Description	Load Type	e Ref	. Start	End	Loc.	100%	90%	115%	160%	125%	
	C2 Floor Decking /iew Fill)	g (Plan Unf. Lin. (	lb/ft) L	00-00-0	0 04-02-14	Тор	53	13				n\a
V			(lb/ft) L % Allov		0 04-02-14 Duration	Top Case	53 Loca					n\;
√ <mark>Cont</mark> Pos. M	/iew Fill) <b>rols Summary</b> /oment	<b>/ Value</b> 133 ft-lbs	% Allov 4.9%		Duration 100%	·	<b>Loca</b> 02-0	<u>tion</u> 1-04				n∖
V <mark>Cont</mark> Pos. M End R	/iew Fill) <b>rols Summary</b> /oment eaction	<b>/ Value</b> 133 ft-lbs 140 lbs	% Allov 4.9% 14.1%		<b>Duration</b> 100% 100%	·	Loca 02-0 00-0	<u>tion</u> 1-04 0-00				n\;
V Pos. M End R End S	/iew Fill) <b>rols Summary</b> /loment eaction hear	<b>Value</b> 133 ft-lbs 140 lbs 129 lbs	<mark>% Allov</mark> 4.9% 14.1% 8.8%		Duration 100% 100% 100%	·	Loca 02-0 00-0 00-0	tion 1-04 0-00 2-00				n\a
V Pos. M End R End S Total L	/iew Fill) <b>rols Summary</b> Moment eaction hear Load Deflection	<b>Value</b> 133 ft-lbs 140 lbs 129 lbs L/999 (0.004")	<mark>% Allov</mark> 4.9% 14.1% 8.8% n\a		Duration 100% 100% 100% n\a	Case 1 1 1 1	Loca 02-0 00-0 00-0 02-0	tion 1-04 0-00 2-00 1-04				n\a
V Pos. M End R End S Fotal L Live Lo	/iew Fill) rols Summary loment eaction hear Load Deflection oad Deflection	Value 133 ft-lbs 140 lbs 129 lbs L/999 (0.004") L/999 (0.003")	% Allov 4.9% 14.1% 8.8% n\a n\a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 02-0 00-0 00-0 02-0 02-0	tion 1-04 0-00 2-00 1-04 1-04				n\a
V Pos. M End R End S Fotal L Live Lo Max D	/iew Fill) rols Summary Moment eaction hear Load Deflection befl.	Y Value 133 ft-lbs 140 lbs 129 lbs L/999 (0.004") L/999 (0.003") 0.004"	<mark>% Allov</mark> 4.9% 14.1% 8.8% n\a		Duration 100% 100% 100% n\a	Case 1 1 1 1	Loca 02-0 00-0 00-0 02-0	tion 1-04 0-00 2-00 1-04 1-04				n∖a
V Pos. M End R End S Fotal L Live Lo Max D	/iew Fill) rols Summary loment eaction hear Load Deflection oad Deflection	Value 133 ft-lbs 140 lbs 129 lbs L/999 (0.004") L/999 (0.003")	% Allov 4.9% 14.1% 8.8% n\a n\a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 02-0 00-0 00-0 02-0 02-0	tion 1-04 0-00 2-00 1-04 1-04				n\a
V Pos. M End R End S Fotal L Live Lo Max D Span /	/iew Fill) rols Summary Moment eaction hear Load Deflection befl.	Y Value 133 ft-lbs 140 lbs 129 lbs L/999 (0.004") L/999 (0.003") 0.004" 5.1	% Allov 4.9% 14.1% 8.8% n\a n\a		Duration 100% 100% 100% n\a n\a	Case 1 1 1 1 2	Loca 02-0 00-0 02-0 02-0 02-0	tion 1-04 0-00 2-00 1-04 1-04				n\a
V Pos. M End R End S Fotal L Live Lo Max D Span /	/iew Fill) rols Summary Moment eaction hear Load Deflection bed Deflection hefl. / Depth	Y Value 133 ft-lbs 140 lbs 129 lbs L/999 (0.004") L/999 (0.003") 0.004" 5.1	% Allov 4.9% 14.1% 8.8% n∖a n∖a n∖a	vable % Allow	Duration 100% 100% n\a n\a n\a % Allow	Case 1 1 1 1 2 1	Loca 02-0 00-0 02-0 02-0 02-0	tion 1-04 0-00 2-00 1-04 1-04				n∖

### Cautions

Header for the hanger ITS2.06/9.5 is a Double 1-3/4" x 9-1/2" LVL Beam. Hanger ITS2.06/9.5 requires (2) 10d face nails, (4) 10d TF nails, (2) Strong-Grip joist nails.

### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. Hanger Manufacturer: Simpson Strong-Tie, Inc. BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

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# Single 9-1/2" BCI® 5000s-1.8



1st Floor\Floor Joists\J7-16" O.C.(i783) - 01 (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J7-16" O.C.(i783)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

B1						04-02-14							B2
2.				Total H	lorizontal P	roduct Length	= 04-02-1	4					
	ction Summar		ו / Uplift)			0							
<b>Beari</b> B1, 2		Live 112 / 0		Dead 28 / 0		Snow	V	Vind		R00	f Live		
B2, 2		114 / 0		28 / 0									
Loa	d Summary							Live	Dead	Snow	Wind	Roof Live	005
Tag	Description		Load Type	Ret	. Start	End	Loc.	100%	000/	115%	160%	125%	
				_		-			90%	115/0	100 /8	123/0	
	FC2 Floor Decking View Fill)	g (Plan	Unf. Lin. (I	_	00-00-0	-	Тор	53	90% 13	11376	100 /8	12576	n\a
	FC2 Floor Decking		Unf. Lin. (I	_	00-00-0	-			13	11376	100 /8	123 //	n\a
Con	FC2 Floor Decking View Fill)		Unf. Lin. (I	b/ft) L	00-00-0	0 04-02-14	Тор	53	13 tion	11576	100 %	123 //	n\a
<b>Con</b> Pos. End I	FC2 Floor Decking View Fill) <b>trols Summar</b> Moment Reaction	<b>Y Value</b> 133 1 140 I	Unf. Lin. (I e ft-Ibs ibs	b/ft) L <u>% Allor</u> 4.9% 14.1%	00-00-0	0 04-02-14 <u>Duration</u> 100% 100%	Top Case	53 Loca 02-0 00-0	13 <u>tion</u> 1-04 0-00	11376	100 //	123 //	n\a
Con Pos. End I End S	FC2 Floor Decking View Fill) I <b>trols Summar</b> Moment Reaction Shear	<b>Y Value</b> 133 1 140 I 129 I	Unf. Lin. (I e ft-Ibs bs bs	b/ft) L <u>% Allor</u> 4.9% 14.1% 8.8%	00-00-0	0 04-02-14 Duration 100% 100% 100%	Top Case	53 Loca 02-0 00-0 00-0	13 <u>tion</u> 1-04 0-00 2-00	113 //	100 //	123 //	n\a
Con Pos. End I End S Total	FC2 Floor Decking View Fill) <b>Itrols Summar</b> Moment Reaction Shear Load Deflection	<b>y Value</b> 133 1 140 I 129 I L/999	Unf. Lin. (I e ft-Ibs bs bs 9 (0.004")	b/ft) L <u>% Allor</u> 4.9% 14.1% 8.8% n\a	00-00-0	0 04-02-14 Duration 100% 100% 100% n\a	Top Case 1 1 1 1 1	53 <b>Loca</b> 02-0 00-0 00-0 02-0	13 tion 1-04 0-00 2-00 1-04	113 //	100 //	12376	n∖a
<b>Con</b> Pos. End I End S Total Live I	FC2 Floor Decking View Fill) <b>Itrols Summar</b> Moment Reaction Shear Load Deflection Load Deflection	<b>Y Value</b> 133 1 140 1 129 1 L/999 L/999	Unf. Lin. (I ft-lbs bs 9 (0.004") 9 (0.003")	b/ft) L <u>% Allor</u> 4.9% 14.1% 8.8% n\a n\a	00-00-0	0 04-02-14 Duration 100% 100% 100% n\a n\a	Top Case 1 1 1 1 2	53 02-0 00-0 00-0 02-0 02-0	13 tion 1-04 0-00 2-00 1-04 1-04	113 //	100 //	12376	n\a
Con Pos. End f End S Total Live I Max I	FC2 Floor Decking View Fill) Moment Reaction Shear Load Deflection Load Deflection Defl.	<b>Y Value</b> 133 1 140 1 129 1 L/999 L/999 0.004	Unf. Lin. (I ft-lbs bs 9 (0.004") 9 (0.003")	b/ft) L <u>% Allor</u> 4.9% 14.1% 8.8% n\a	00-00-0	0 04-02-14 Duration 100% 100% 100% n\a	Top Case 1 1 1 1 1	53 <b>Loca</b> 02-0 00-0 00-0 02-0	13 tion 1-04 0-00 2-00 1-04 1-04	113 //	100 /8	12376	n\a
Con Pos. End f End S Total Live I Max I	FC2 Floor Decking View Fill) <b>Itrols Summar</b> Moment Reaction Shear Load Deflection Load Deflection	<b>Y Value</b> 133 1 140 1 129 1 L/999 L/999	Unf. Lin. (I ft-lbs bs 9 (0.004") 9 (0.003")	b/ft) L <u>% Allor</u> 4.9% 14.1% 8.8% n\a n\a	00-00-0	0 04-02-14 Duration 100% 100% 100% n\a n\a	Top Case 1 1 1 1 2	53 02-0 00-0 00-0 02-0 02-0	13 tion 1-04 0-00 2-00 1-04 1-04	113 //	100 /8	12376	n\a
<b>Con</b> Pos. End I End S Total Live I Max I Span	FC2 Floor Decking View Fill) Moment Reaction Shear Load Deflection Load Deflection Defl.	<b>Y Value</b> 133 1 140 I 129 I L/999 L/999 0.004 5.1	Unf. Lin. (I e ft-Ibs bs 9 (0.004") 9 (0.003") 4"	b/ft) L <u>% Allor</u> 4.9% 14.1% 8.8% n\a n\a	00-00-0	0 04-02-14 Duration 100% 100% 100% n\a n\a	Top Case 1 1 1 1 2	53 02-0 00-0 00-0 02-0 02-0 02-0	13 tion 1-04 0-00 2-00 1-04 1-04	113 //	100 /8	12376	n\a
<b>Con</b> Pos. End I End S Total Live I Max I Span	FC2 Floor Decking View Fill) Moment Reaction Shear Load Deflection Load Deflection Defl. / Depth	<b>Y Value</b> 133 1 140 I 129 I L/999 L/999 0.004 5.1	Unf. Lin. (I e ft-Ibs bs 9 (0.004") 9 (0.003") 4"	b/ft) L <u>% Allon</u> 4.9% 14.1% 8.8% n\a n\a n\a	00-00-0 wable % Allow	0 04-02-14 Duration 100% 100% 100% n\a n\a n\a Na Na Na Na	Top <b>Case</b> 1 1 1 1 2 1	53 Loca 02-0 00-0 02-0 02-0 02-0 02-0	13 tion 1-04 0-00 2-00 1-04 1-04	113 //	100 /8	12376	n\a

### Cautions

Header for the hanger ITS2.06/9.5 is a Double 1-3/4" x 9-1/2" LVL Beam. Hanger ITS2.06/9.5 requires (2) 10d face nails, (4) 10d TF nails, (2) Strong-Grip joist nails.

### Notes

Design meets User specified (L/360) Total load deflection criteria. Design meets User specified (L/480) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. Hanger Manufacturer: Simpson Strong-Tie, Inc. BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



# Single 9-1/2" BCI® 5000s-1.8



December 22, 2021 10:31:03

# 1st Floor\Floor Joists\J7-16" O.C.(i863) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Floor Joists\J7-16" O.C.(i863)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit

+ + + +	<u>+ + +</u>	<u>+ +</u>	+ +	<u>+ +</u>	+ + 2	<u>+ + +</u>	<u>+ + ·</u>	<u>↓ ↓</u>	+ +	+ +	+ +	<u>+ +</u>	
	+ + +	<u>↓</u> ↓ ·	↓ ↓	+ +	+ + •	<b>,</b> 1 <b>↓ ↓</b>	$\downarrow$ $\downarrow$ $\downarrow$	· +	↓ ↓	+ +	↓ ↓	↓ ↓	$\downarrow$ $\downarrow$
													$\mathbf{\times}$
<u>}</u>													
B1					0	4-02-14							B2
				Total H	orizontal Pr	oduct Length	= 04-02-1	4					02
Reaction Summa	arv (Dow	n / Unlif	t) (lb			<b>j</b>							
Bearing	Live		Dea		ç	Snow	v	Vind		Roo	f Live		
31, 2"	112/0		-	/ 0			•						
32, 2-3/8"	114/0		-	/0									
2, 2-0/0	11470		10	/0									
								Live	Dead	Snow	Wind	Roof	ocs
Load Summary								LIVE	Deau	Onow	Wind	Live	000
ag Description		Load Typ	e	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
FC2 Floor Deck	ing (Plan	Unf. Lin.	(lb/ft)	L	00-00-00	04-02-14	Тор	53	13				n\a
View Fill)													
2 FC2 Floor Deck	ing (Plan	Unf. Lin.	(lb/ft)	L	00-00-00	04-00-00	Тор		22				n\a
View Fill)													
0													
Controls Summa				% Allow	able	Duration	Case	Loca	ation				
Pos. Moment	178	ft-lbs		6.5%		100%	1	02-0	1-04				
End Reaction	187	lbs		18.8%		100%	1	00-0	00-00				
End Shear	172	lbs		11.7%		100%	1	00-0	2-00				

End Reaction	187 lbs	18.8%	100%	1	00-00-00
End Shear	172 lbs	11.7%	100%	1	00-02-00
Total Load Deflection	L/999 (0.006")	n∖a	n\a	1	02-01-04
Live Load Deflection	L/999 (0.003")	n∖a	n\a	2	02-01-04
Max Defl.	0.006"	n∖a	n\a	1	02-01-04
Span / Depth	5.1				

	•			% Allow	% Allow	
Bearing	g Supports	Dim. (LxW)	Value	Support	Member	Material
B1	Hanger	2" x 2"	187 lbs	12.1%	18.8%	ITS2.06/9.5
B2	Wall/Plate	2-3/8" x 2"	184 lbs	9.1%	18.0%	Unspecified

### Cautions

Header for the hanger ITS2.06/9.5 is a Double 1-3/4" x 9-1/2" LVL Beam. Hanger ITS2.06/9.5 requires (2) 10d face nails, (4) 10d TF nails, (2) Strong-Grip joist nails.

### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

### Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.



Boise Cascade*		Sina	le 9-1/2"	BCI® 50	00s-1.	8				PAS	SSED
ENGINEERED WOOD PRODUCTS	1ot	-					iot)				
BC CALC® Member   Build 8014		F <b>loor\Floor</b> 1 span   No o						De	ecembei	22, 2021	10:31:03
	Lot 323 Park Ridge			File name		ot 323 Pa	-	e.mmdl sts∖J8-16		1064)	
				Descriptio			-1001 301	SIS\J0-10	5 U.U.(I	1004)	
City, State, Zip:	KC-Truss & Panel			Specifier:		on Honn	al				
-	ESR-1336			Designer: Company		on Happ		MD - Lee	'e Sumn	nit	
	E3R-1330			Company	<u>. D</u>			VID - Lee	s Summ	IIL	
				2 1/	>						
k											
B1		Total H		2-06-00 oduct Length	= 02-06-0	10					B2
	ary (Down / Uplift	(lbs)									
Bearing	Live	Dead		Snow		Nind		Roo	f Live		
B1, 2" B2, 2"	51 / 6 69 / 8	11 / 0 15 / 0									
Load Summary						Live	Dead	Snow	Wind	Roof	ocs
Tag Description	Load Type	Ref	. Start	End	Loc.	100%	90%	115%	160%	Live 125%	
1 -	Conc. Pt.	(lbs) L	01-05-00	01-05-00	Front	120	26				n∖a
2 -	Conc. Pt.	(lbs) L	01-05-00	01-05-00	Front	-14					n∖a
<b>Controls Summa</b>	<b>ary</b> Value	% Allow	vable	Duration	Case	Loca	tion				
Pos. Moment	82 ft-lbs	3.0%		100%	1	01-0	5-00				
End Reaction	84 lbs	8.4%		100%	1	02-0					
End Shear	84 lbs	5.7%		100%	1	02-0					
Total Load Deflection	( )	n\a		n\a	1	01-0					
Live Load Deflection	L/999 (0.001")	n\a		n\a	3	01-0					
Max Defl.	0.002"	n\a		n\a	1	01-0	5-00				
Span / Depth	2.9										
Bearing Support	S Dim. (LxW)	Value	% Allow Support	% Allow Member	Materi	al					
B1 Hanger	2" x 2"	62 lbs	7.7%	6.3%	ITS2.						
B2 Hanger	2" x 2"	84 lbs	10.3%	8.4%	ITS2.						
Cautions								D'			
Hanger ITS2.06/9.5 r	equires (2) 10dx1.5 fac	e nails, (4) 1	0dx1.5 TF r	ails, (2) Stro	ng-Grip j	oist nails	3.		osure he Boise	e Cascade So	oftware is
Notes								License	Agreeme	ms of the Er ent (EULA).	
-	pecified (L/360) Total lo									nd accuracy d and verifie	
-	pecified (L/480) Live lo									r or other ap	
-	ry (1") Maximum Total									its adequacy	
-	ry (0.75") Maximum live		ion criteria.							n such outpu bility for a pa	
-	: Simpson Strong-Tie, s based on IBC 2009.	Inc.						applicat	ion. The	output here i cepted desig	is based on
-	ased on 3/4" thick OS	3 sheathing g	lued and na	ailed to mem	ber.			properti	es and ar	nalysis meth	ods.
Design based on Dry Calculations assume	Service Condition. member is fully braced	L						enginee	red wood	ise Cascade I products m	iust be in
								Guide a obtain Ir questior	nd applic nstallatior	current Insta able building n Guide or a e call (800)2 n.	g codes. To sk



BC CALC® Member Report

# Single 9-1/2" BCI® 5000s-1.8



## 1st Floor\Floor Joists\J8-16" O.C.(i965) (Floor Joist)

Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

December 22, 2021 10:31:03

Code reports:	ESR-1336	Company:	Boise Cascade BMD - Lee's Summit
Customer:	KC-Truss & Panel	Designer:	Don Happel
City, State, Zip:		Specifier:	
Address:		Description:	1st Floor\Floor Joists\J8-16" O.C.(i965)
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Build 8014			

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	<u> </u>																						
B1												03-0	2-03										B2
								Т	otal I	Horiz	ontal P	rod	uct Length	n = 03	3-02-0	3							52
Rea	action Sun	nmary	/ (D	owr	n/U	Jplif	it) (II	bs)															
Bea			Live					ead				Sno	ow		V	Vind		R	oof	Live			
B1,			51/					3/0															
Β2,	3-1/2"		49 /	0			2	1/0															
																Live	Dead	Sno	w	Wind	Ro	of	ocs
LUa	ad Summa	ry																one			Liv		000
Tag		<u></u>	<u></u>			d Typ			Re		Start		End	Lo		100%		1159	%	160%	125	5%	
1	FC2 Floor D View Fill)	ecking	(Pla	n	Unf.	Lin.	(lb/ft	)	L	C	0-00-0	00	03-00-07	То	р	23	6						n∖a
2	FC2 Floor D View Fill)	ecking	(Pla	n	Unf.	Lin.	(lb/ft	)	L	C	0-00-0	00	02-10-11	То	р	10	3						n∖a
3	51(i108)				Con	ic. Pt	. (Ibs	)	L	C	)3-00-0	)6	03-00-06	То	р		9						n\a
Со	ntrols Sum	mary	, ı	Value	e			%	Allo	wabl	e	Du	uration		Case	Loc	ation						
	. Moment			42 ft-	-lbs			1.	6%			10	)0%		1	01-	06-06						
End	Reaction		(	64 lb	s			6.	4%			10	0%		1	00-	00-00						
End	l Shear		ę	57 lb	s			3.	9%			10	0%		1	00-	02-00						
Tota	al Load Deflec	tion	I	L/999	9 (0.0	001")	)	n\	а			n\a	а		1	01-	06-06						
Live	e Load Deflect	ion	I	L/999	9 (0.0	001")	)	n\	а			n\a	а		2	01-	06-06						
Мах	c Defl.		(	0.00	1"			n\	а			n\a	а		1	01-	06-06						
Spa	in / Depth			3.6																			
_											Allow		% Allow										
	aring Supp			. (Lx\	W)		Va				pport		Member		lateria								
B1	Hange		2" x		<b>.</b>			lbs			9%		6.4%			6/9.5							
B2	Wall/P	ate	3-1/	2" x	2"		71	lbs		2.4	1%		6.3%	ι	Inspe	cified		_		osure			
~																						ade Sof	
-	utions	_		(2)											<u></u>		<u>.                                    </u>			o the tei Agreem		the End	User
Han	ger ITS2.06/9	.5 requ	lires	(2) 1	10dx	1.5 fa	ace n	ails,	(4) 1	10dx	1.5 TF	nai	is, (2) Stro	ong-(	Grip jo	oist nai	ls.					curacy o	f input

#### Notes

Design meets User specified (L/360) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Hanger Manufacturer: Simpson Strong-Tie, Inc.

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ENGINEERED WOOD PRODUCTS		1et Fl	oor\Elu	sh Roams	\B1-2(i102	6) (Fluel	h Roar	m)				
BC CALC® Membe	er Report	15(1)			in   No cant.	0) (1 1001	n Deur	,	De	cembe	r 22 20	21 10:31:03
Build 8014	n rtoport			Diy i ope					D	00011100	. 22, 20	21 10.01.00
Job name:	Lot 323 Pa	rk Ridae			File name	». Io	t 323 P	ark Ridg	e mmdl			
Address:	20102014	intrago			Descriptio			Flush Be		2(i1026	)	
City, State, Zip:					Specifier:				amoter	2(11020	/	
Customer:	KC-Truss &	& Panel			Designer		on Happ	hel				
Code reports:	ESR-1040				Company			scade BN	/D - Lee'	's Sumr	nit	
	Lort forto				Company		000 000	Doudo Bri		o ounn		
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$\mathbf{X}$												
<u>/</u>				1	5-04-00							ł
B1												B2
				orizontal Pro	oduct Length	= 16-04-0	0					
Reaction Sum	nary (Dow	n / Uplift) (Ib	s)									
Bearing	Live		ad	5	now	V	Vind		Roo	f Live		
B1, 3-1/2"	299 / 0		29/0									
B2, 2"	297 / 0	61	6/0									
Load Summary	/						Live	Dead	Snow	Wind	Roof	Tributary
-											Live	
Tag Description		Load Type	Rof	Start	End		100%	90%	115%	160%		
TagDescription0Self-Weight		Load Type Unf. Lin. (lb/ft)	Ref.		End 16-04-00	Loc. Top	100%	<b>90%</b> 10	115%	160%	125%	
0 Self-Weight	cking (Plan	Unf. Lin. (lb/ft)	L	00-00-00	16-04-00	Тор		10	115%	160%		00-00-00
¥i	cking (Plan		L		16-04-00		<b>100%</b> 10		115%	160%		
0 Self-Weight 1 FC2 Floor Dee		Unf. Lin. (lb/ft)	L	00-00-00	16-04-00 16-04-00	Тор		10	115%	160%		00-00-00
0 Self-Weight 1 FC2 Floor Dev View Fill)		Unf. Lin. (lb/ft) Unf. Lin. (lb/ft)	L	00-00-00 00-00-00	16-04-00 16-04-00	Тор Тор	10	10 3	115%	160%		00-00-00 n\a
<ol> <li>Self-Weight</li> <li>FC2 Floor Dervice Fill)</li> <li>FC2 Floor Dervice Fill)</li> <li>FC2 Floor Dervice Fill)</li> <li>55(i112)</li> </ol>	cking (Plan	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft)	L L L	00-00-00 00-00-00 00-01-12 00-03-07	16-04-00 16-04-00 16-04-00 14-11-08	Тор Тор	10	10 3	115%	160%		00-00-00 n\a
<ol> <li>Self-Weight</li> <li>FC2 Floor Dervice Fill)</li> <li>FC2 Floor Dervice Fill)</li> <li>FC2 Floor Dervice Fill)</li> <li>55(i112)</li> <li>FC2 Floor Dervice Floor Der</li></ol>	cking (Plan	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft)	L L L	00-00-00 00-00-00 00-01-12	16-04-00 16-04-00 16-04-00 14-11-08	Тор Тор Тор Тор	10	10 3 7	115%	160%		00-00-00 n\a n\a
<ol> <li>Self-Weight</li> <li>FC2 Floor Dervice Fill)</li> <li>FC2 Floor Dervice Fill)</li> <li>FC2 Floor Dervice Fill)</li> <li>55(i112)</li> <li>FC2 Floor Dervice Fill)</li> </ol>	cking (Plan	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft)	L L L L	00-00-00 00-00-00 00-01-12 00-03-07 08-03-07	16-04-00 16-04-00 16-04-00 14-11-08 14-11-08	Top Top Top Top Top	10	10 3 7 57 2	115%	160%		00-00-00 n\a n\a n\a
<ol> <li>Self-Weight</li> <li>FC2 Floor Deavised View Fill)</li> <li>FC2 Floor Deavised View Fill)</li> <li>55(i112)</li> <li>FC2 Floor Deavised View Fill)</li> <li>55(i112)</li> </ol>	cking (Plan	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs)	L L L L	00-00-00 00-00-00 00-01-12 00-03-07 08-03-07 00-01-11	16-04-00 16-04-00 16-04-00 14-11-08 14-11-08 00-01-11	Тор Тор Тор Тор Тор Тор	10	10 3 7 57 2 19	115%	160%		00-00-00 n\a n\a n\a n\a
<ol> <li>Self-Weight</li> <li>FC2 Floor Dervice Fill)</li> <li>FC2 Floor Dervice Fill)</li> <li>FC2 Floor Dervice Fill)</li> <li>55(i112)</li> <li>FC2 Floor Dervice Fill)</li> </ol>	cking (Plan	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft)	L L L L	00-00-00 00-00-00 00-01-12 00-03-07 08-03-07	16-04-00 16-04-00 16-04-00 14-11-08 14-11-08 00-01-11	Тор Тор Тор Тор Тор Тор	10	10 3 7 57 2	115%	160%		00-00-00 n\a n\a n\a
<ol> <li>Self-Weight</li> <li>FC2 Floor Derview Fill)</li> <li>FC2 Floor Derview Fill)</li> <li>55(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>55(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>51(i108)</li> <li>53(i111)</li> </ol>	cking (Plan cking (Plan	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs)		00-00-00 00-00-00 00-01-12 00-03-07 08-03-07 00-01-11 15-01-04	16-04-00 16-04-00 16-04-00 14-11-08 14-11-08 00-01-11 15-01-04	Тор Тор Тор Тор Тор Тор Тор	10 27	10 3 7 57 2 19 77	115%	160%		00-00-00 n\a n\a n\a n\a
<ul> <li>0 Self-Weight</li> <li>1 FC2 Floor Derview Fill)</li> <li>2 FC2 Floor Derview Fill)</li> <li>3 55(i112)</li> <li>4 FC2 Floor Derview Fill)</li> <li>5 51(i108)</li> <li>6 53(i111)</li> <li>Controls Summer</li> </ul>	cking (Plan cking (Plan <b>nary v</b> alu	Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Conc. Pt. (Ibs) Conc. Pt. (Ibs)	L L L L S Allow	00-00-00 00-00-00 00-01-12 00-03-07 08-03-07 00-01-11 15-01-04 vable	16-04-00 16-04-00 16-04-00 14-11-08 14-11-08 00-01-11 15-01-04 Duration	Тор Тор Тор Тор Тор Тор Тор <b>Саse</b>	10 27 Loca	10 3 7 57 2 19 77 ation	115%	160%		00-00-00 n\a n\a n\a n\a
<ul> <li>0 Self-Weight</li> <li>1 FC2 Floor Derview Fill)</li> <li>2 FC2 Floor Derview Fill)</li> <li>3 55(i112)</li> <li>4 FC2 Floor Derview Fill)</li> <li>5 51(i108)</li> <li>6 53(i111)</li> <li>Controls Summediate</li> </ul>	cking (Plan cking (Plan <u>nary valu</u> 363	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) Ie 5 ft-lbs	L L L L <u>% Allov</u> 26.0%	00-00-00 00-00-00 00-01-12 00-03-07 08-03-07 00-01-11 15-01-04 vable	16-04-00 16-04-00 14-04-00 14-11-08 14-11-08 00-01-11 15-01-04 Duration 100%	Top Top Top Top Top Top Top <b>Case</b> 1	10 27 <u>Loca</u> 08-0	10 3 7 57 2 19 77 <b>ation</b> 03-06	115%	160%		00-00-00 n\a n\a n\a n\a
<ul> <li>Self-Weight</li> <li>FC2 Floor Derview Fill)</li> <li>FC2 Floor Derview Fill)</li> <li>FC2 Floor Derview Fill)</li> <li>55(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>551(i108)</li> <li>53(i111)</li> <li>Controls Summert</li> <li>End Shear</li> </ul>	cking (Plan cking (Plan <b>mary valu</b> 363 868	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) <b>1e</b> 5 ft-lbs lbs	L L L L L 26.0% 13.7%	00-00-00 00-00-00 00-01-12 00-03-07 08-03-07 00-01-11 15-01-04 vable	16-04-00 16-04-00 14-04-00 14-11-08 14-11-08 00-01-11 15-01-04 Duration 100% 100%	Top Top Top Top Top Top <b>Case</b> 1 1	10 27 <u>Loca</u> 08-0 15-0	10 3 7 57 2 19 77 <b>ation</b> 03-06 04-08	115%	160%		00-00-00 n\a n\a n\a n\a
<ul> <li>Self-Weight</li> <li>FC2 Floor Derview Fill)</li> <li>FC2 Floor Derview Fill)</li> <li>S5(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>S5(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>S1(i108)</li> <li>S3(i111)</li> <li>Controls Summert</li> <li>End Shear</li> <li>Total Load Deflection</li> </ul>	cking (Plan cking (Plan Mary Valu 363 868 on L/57	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) <b>1e</b> 5 ft-lbs lbs 73 (0.335")	L L L L 26.0% 13.7% 41.9%	00-00-00 00-01-12 00-03-07 08-03-07 00-01-11 15-01-04 vable	16-04-00 16-04-00 14-04-00 14-11-08 14-11-08 00-01-11 15-01-04 Duration 100% 100% n\a	Top Top Top Top Top Top <b>Case</b> 1 1 1	10 27 <u>Loca</u> 08-0 15-0 08-0	10 3 7 57 2 19 77 <b>ation</b> 03-06 04-08 03-06	115%	160%		00-00-00 n\a n\a n\a n\a
<ul> <li>Self-Weight</li> <li>FC2 Floor Derview Fill)</li> <li>FC2 Floor Derview Fill)</li> <li>S5(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>S5(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>S1(i108)</li> <li>S3(i111)</li> <li>Controls Summerview</li> <li>Pos. Moment</li> <li>End Shear</li> <li>Total Load Deflection</li> <li>Live Load Deflection</li> </ul>	cking (Plan cking (Plan Mary Valu 363 868 on L/57 n L/99	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) <b>1e</b> 5 ft-lbs lbs 73 (0.335") 99 (0.108")	L L L L 26.0% 13.7% 41.9% n\a	00-00-00 00-01-12 00-03-07 08-03-07 00-01-11 15-01-04 vable	16-04-00 16-04-00 14-04-00 14-11-08 14-11-08 00-01-11 15-01-04 Duration 100% 100% n\a n\a	Top Top Top Top Top Top <b>Case</b> 1 1 1 2	10 27 08-0 15-0 08-0 08-0	10 3 7 57 2 19 77 <b>ation</b> 03-06 04-08 03-06 03-06	115%	160%		00-00-00 n\a n\a n\a n\a
<ul> <li>Self-Weight</li> <li>FC2 Floor Derview Fill)</li> <li>FC2 Floor Derview Fill)</li> <li>S5(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>55(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>551(i108)</li> <li>53(i111)</li> <li>Controls Summert</li> <li>End Shear</li> <li>Total Load Deflection</li> <li>Live Load Deflection</li> <li>Max Defl.</li> </ul>	cking (Plan cking (Plan 363 868 on L/57 n L/99 0.33	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) <b>1e</b> 5 ft-lbs lbs 73 (0.335") 99 (0.108") 35"	L L L L 26.0% 13.7% 41.9%	00-00-00 00-01-12 00-03-07 08-03-07 00-01-11 15-01-04 vable	16-04-00 16-04-00 14-04-00 14-11-08 14-11-08 00-01-11 15-01-04 Duration 100% 100% n\a	Top Top Top Top Top Top <b>Case</b> 1 1 1	10 27 27 08-0 15-0 08-0 08-0	10 3 7 57 2 19 77 <b>ation</b> 03-06 04-08 03-06	115%	160%		00-00-00 n\a n\a n\a n\a
<ul> <li>Self-Weight</li> <li>FC2 Floor Derview Fill)</li> <li>FC2 Floor Derview Fill)</li> <li>S5(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>S5(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>S1(i108)</li> <li>S3(i111)</li> <li>Controls Summerview</li> <li>Pos. Moment</li> <li>End Shear</li> <li>Total Load Deflection</li> <li>Live Load Deflection</li> </ul>	cking (Plan cking (Plan Mary Valu 363 868 on L/57 n L/99	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) <b>1e</b> 5 ft-lbs lbs 73 (0.335") 99 (0.108") 35"	L L L L 26.0% 13.7% 41.9% n\a	00-00-00 00-01-12 00-03-07 08-03-07 00-01-11 15-01-04 vable	16-04-00 16-04-00 14-04-00 14-11-08 14-11-08 00-01-11 15-01-04 Duration 100% 100% n\a n\a	Top Top Top Top Top Top <b>Case</b> 1 1 1 2	10 27 27 08-0 15-0 08-0 08-0	10 3 7 57 2 19 77 <b>ation</b> 03-06 04-08 03-06 03-06	115%	160%		00-00-00 n\a n\a n\a n\a
<ul> <li>Self-Weight</li> <li>FC2 Floor Derview Fill)</li> <li>FC2 Floor Derview Fill)</li> <li>S5(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>55(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>551(i108)</li> <li>53(i111)</li> <li>Controls Summert</li> <li>End Shear</li> <li>Total Load Deflection</li> <li>Live Load Deflection</li> <li>Max Defl.</li> </ul>	cking (Plan cking (Plan 363 868 on L/57 n L/99 0.33	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) <b>1e</b> 5 ft-lbs lbs 73 (0.335") 99 (0.108") 35"	L L L L 26.0% 13.7% 41.9% n\a	00-00-00 00-01-12 00-03-07 08-03-07 00-01-11 15-01-04 vable	16-04-00 16-04-00 14-04-00 14-11-08 14-11-08 00-01-11 15-01-04 Duration 100% 100% n\a n\a	Top Top Top Top Top Top <b>Case</b> 1 1 1 2	10 27 27 08-0 15-0 08-0 08-0	10 3 7 57 2 19 77 <b>ation</b> 03-06 04-08 03-06 03-06	115%	160%		00-00-00 n\a n\a n\a n\a
<ul> <li>Self-Weight</li> <li>FC2 Floor Derview Fill)</li> <li>FC2 Floor Derview Fill)</li> <li>55(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>55(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>51(i108)</li> <li>53(i111)</li> <li>Controls Summert</li> <li>End Shear</li> <li>Total Load Deflection</li> <li>Max Defl.</li> <li>Span / Depth</li> </ul>	cking (Plan cking (Plan 363 868 on L/57 n L/99 0.33 20.2	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) 5 ft-lbs lbs 73 (0.335") 99 (0.108") 35" 2	L L L L 26.0% 13.7% 41.9% n\a 33.5%	00-00-00 00-01-12 00-03-07 08-03-07 00-01-11 15-01-04 vable	16-04-00 16-04-00 14-04-00 14-11-08 14-11-08 00-01-11 15-01-04 Duration 100% 100% n\a n\a n\a Na n\a	Top Top Top Top Top Top <b>Case</b> 1 1 1 2 1	10 27 08-0 15-0 08-0 08-0	10 3 7 57 2 19 77 <b>ation</b> 03-06 04-08 03-06 03-06	115%	160%		00-00-00 n\a n\a n\a n\a
<ul> <li>Self-Weight</li> <li>FC2 Floor Derview Fill)</li> <li>FC2 Floor Derview Fill)</li> <li>55(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>55(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>51(i108)</li> <li>53(i111)</li> <li>Controls Summerview Formation</li> <li>Pos. Moment</li> <li>End Shear</li> <li>Total Load Deflection</li> <li>Max Defl.</li> <li>Span / Depth</li> </ul>	cking (Plan cking (Plan 363 868 on L/57 n L/99 0.33 20.2 ports Dim. (L)	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) 5 ft-lbs lbs 73 (0.335") 99 (0.108") 35" 2 KW) Value	L L L L S Allow 26.0% 13.7% 41.9% n\a 33.5%	00-00-00 00-01-12 00-03-07 08-03-07 00-01-11 15-01-04 vable % Allow Support	16-04-00 16-04-00 14-04-00 14-11-08 14-11-08 00-01-11 15-01-04 Duration 100% 100% n\a n\a n\a m\a % Allow Member	Top Top Top Top Top <b>Case</b> 1 1 1 2 1 Materia	10 27 08-0 15-0 08-0 08-0	10 3 7 57 2 19 77 <b>ation</b> 03-06 04-08 03-06 03-06	115%	160%		00-00-00 n\a n\a n\a n\a
0       Self-Weight         1       FC2 Floor Dervise Fill)         2       FC2 Floor Dervise Fill)         3       55(i112)         4       FC2 Floor Dervise Fill)         5       51(i108)         6       53(i111)         Controls Summ         Pos. Moment         End Shear         Total Load Deflection         Max Defl.         Span / Depth	cking (Plan cking (Plan 363 868 on L/57 n L/99 0.33 20.2 prts Dim. (L3 te 3-1/2" >	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) S ft-lbs lbs 73 (0.335") 99 (0.108") 35" 2 <u>KW) Vali</u> (3-1/2" 928	L L L L L 26.0% 13.7% 41.9% n\a 33.5%	00-00-00 00-01-12 00-03-07 08-03-07 00-01-11 15-01-04 vable vable	16-04-00 16-04-00 14-04-00 14-11-08 14-11-08 00-01-11 15-01-04 Duration 100% 100% 100% n\a n\a n\a m\a Member 10.1%	Top Top Top Top Top <b>Case</b> 1 1 2 1 1 <b>Materia</b> Unspe	10 27 08-0 15-0 08-0 08-0 08-0 08-0	10 3 7 57 2 19 77 <b>ation</b> 03-06 04-08 03-06 03-06	115%	160%		00-00-00 n\a n\a n\a n\a
<ul> <li>Self-Weight</li> <li>FC2 Floor Derview Fill)</li> <li>FC2 Floor Derview Fill)</li> <li>55(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>55(i112)</li> <li>FC2 Floor Derview Fill)</li> <li>51(i108)</li> <li>53(i111)</li> <li>Controls Summerview Formation</li> <li>Pos. Moment</li> <li>End Shear</li> <li>Total Load Deflection</li> <li>Max Defl.</li> <li>Span / Depth</li> </ul>	cking (Plan cking (Plan 363 868 on L/57 n L/99 0.33 20.2 ports Dim. (L)	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) S ft-lbs lbs 73 (0.335") 99 (0.108") 35" 2 <u>KW) Vali</u> (3-1/2" 928	L L L L S Allow 26.0% 13.7% 41.9% n\a 33.5%	00-00-00 00-01-12 00-03-07 08-03-07 00-01-11 15-01-04 vable % Allow Support	16-04-00 16-04-00 14-04-00 14-11-08 14-11-08 00-01-11 15-01-04 Duration 100% 100% n\a n\a n\a m\a % Allow Member	Top Top Top Top Top <b>Case</b> 1 1 1 2 1 Materia	10 27 08-0 15-0 08-0 08-0 08-0 08-0	10 3 7 57 2 19 77 <b>ation</b> 03-06 04-08 03-06 03-06	115%	160%		00-00-00 n\a n\a n\a n\a
0       Self-Weight         1       FC2 Floor Derview Fill)         2       FC2 Floor Derview Fill)         3       55(i112)         4       FC2 Floor Derview Fill)         3       55(i112)         4       FC2 Floor Derview Fill)         5       51(i108)         6       53(i111)         Controls Summ         Pos. Moment         End Shear         Total Load Deflection         Max Defl.         Span / Depth         Bearing Support         B1       Wall/Plate         B2       Hanger	cking (Plan cking (Plan 363 868 on L/57 n L/99 0.33 20.2 prts Dim. (L3 te 3-1/2" >	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) S ft-lbs lbs 73 (0.335") 99 (0.108") 35" 2 <u>KW) Vali</u> (3-1/2" 928	L L L L L 26.0% 13.7% 41.9% n\a 33.5%	00-00-00 00-01-12 00-03-07 08-03-07 00-01-11 15-01-04 vable vable	16-04-00 16-04-00 14-04-00 14-11-08 14-11-08 00-01-11 15-01-04 Duration 100% 100% 100% n\a n\a n\a m\a Member 10.1%	Top Top Top Top Top <b>Case</b> 1 1 2 1 1 <b>Materia</b> Unspe	10 27 08-0 15-0 08-0 08-0 08-0 08-0	10 3 7 57 2 19 77 <b>ation</b> 03-06 04-08 03-06 03-06	115%	160%		00-00-00 n\a n\a n\a n\a
0       Self-Weight         1       FC2 Floor Dervise Fill)         2       FC2 Floor Dervise Fill)         3       55(i112)         4       FC2 Floor Dervise Fill)         5       51(i108)         6       53(i111)         Controls Summ         Pos. Moment         End Shear         Total Load Deflection         Max Defl.         Span / Depth	cking (Plan cking (Plan 363 868 on L/57 n L/99 0.33 20.2 prts Dim. (L) te 3-1/2" x 2" x 3-1	Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) Deg (0.108") 35" 22 CVV Value (3-1/2" 928 1/2" 913	L L L L L 26.0% 13.7% 41.9% n\a 33.5%	00-00-00 00-01-12 00-03-07 08-03-07 00-01-11 15-01-04 vable % Allow Support 17.8% n\a	16-04-00 16-04-00 14-04-00 14-11-08 14-11-08 00-01-11 15-01-04 Duration 100% 100% 100% 100% 100% 100% 100% 100	Top Top Top Top Top Top <b>Case</b> 1 1 1 2 1 1 <b>Materia</b> Unspe HGUS	10 27 08-0 15-0 08-0 08-0 08-0 08-0 08-0 08-0 08-0 0	10 3 7 57 2 19 77 <b>ation</b> 03-06 03-06 03-06	115%	160%		00-00-00 n\a n\a n\a n\a

Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

PASSED

Hanger model HGUS410 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

Boise Cascade® ENGINEERED WOOD PRODUCTS



# Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1st Floor/Flush Beams\B1-2(i1026) (Flush Beam)



December 22, 2021 10:31:03

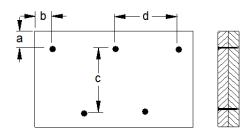
BC CALC® Mem	ber Report	Dry   1 span   No cant.	December 22,
Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Flush Beams\B1-2(i1026)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

## Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. Hanger Manufacturer: Simpson Strong-Tie, Inc. BC CALC® analysis is based on IBC 2009. Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 16-00-08.

# **Connection Diagram: Full Length of Member**



a minimum = 2" c = 5-1/2" b minimum = 3" d = 24"

Calculated Side Load = 0.0 lb/ft Connectors are: 3-1/4 in. Pneumatic Gun Nails

## Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

Boise Cascade*		le 1-3/4" >								P	ASSED
BC CALC® Member Re		st Floor\Flu	<b>sh Beams\</b> Dry   2 span	•		h Beam	1)	De	ecembei	22, 202	1 10:31:03
Build 8014											
Address:	t 323 Park Ridge			File name Descriptio	on: 19	ot 323 Pa st Floor\F	-	je.mmdl eams∖B1-	2(i1038)	)	
City, State, Zip:				Specifier:							
	C-Truss & Panel SR-1040			Designer: Company		on Happ Dise Cas		MD - Lee	's Sumn	nit	
	51(-10+0			Company				VID - LCC	3 Ourin	iit	
3											
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// 01-03-12				16-02-04							
B1 B2		Total H	orizontal Pro	duct Lenath	= 17-06-0	00					B3
<b>Reaction Summar</b>	v (Down / Uplift)			g							
Bearing	Live	Dead	Sr	now	1	Nind		Roo	f Live		
B1, 3-1/2"	6/373	0 / 1907									
B2, 3-1/2" B3, 2"	512 / 0 83 / 0	2693 / 0 442 / 0									
D3, Z	0370	442/0									
Load Summary						Live	Dead	Snow	Wind	Roof Live	Tributary
Tag Description	Load Type			End	Loc.	100%	90%	115%	160%	125%	
0 Self-Weight	Unf. Lin. (I	,	00-00-00	17-06-00	Тор		10				00-00-00
1 E27(i103) 2 FC2 Floor Decking	Unf. Lin. (I g (Plan Unf. Lin. (I	,	00-03-07 00-03-08	17-06-00 17-06-00	Тор Тор	13	57 3				n∖a n∖a
View Fill)			00-03-00	17-00-00	төр	15	5				Пa
3 E28(i98)	Conc. Pt.	(lbs) L	00-01-11	00-01-11	Тор		17				n\a
Controls Summary	Value	% Allow	able D	uration	Case	Loca	tion				
Pos. Moment	1588 ft-lbs	11.4%		00%	3	11-0					
Neg. Moment	-2529 ft-lbs	31.8%		00%	3	01-0					
End Shear	2245 lbs	35.5%		00%	3	01-0					
Cont. Shear	2306 lbs	36.5%		00%	3	00-04					
Total Load Deflection Live Load Deflection	L/999 (0.114")	n∖a n∖a		\a	3	10-0 10-0					
Total Neg. Defl.	L/999 (0.018") L/999 (-0.001")	n∖a n∖a		\a \a	6 3	00-1					
Max Defl.	0.114"	n∖a		\a	3	10-0					
Span / Depth	20.3										
Bearing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Materi						
B1 Wall/Plate B1 Uplift	3-1/2" x 3-1/2"	0 lbs 2280 lbs	n∖a	n\a	Unspe	ecified					
B2 Wall/Plate	3-1/2" x 3-1/2"	3205 lbs	61.6%	34.9%	Unspe	ecified					
B3 Wall/Plate	2" x 3-1/2"	525 lbs	17.7%	10.0%	Unspe	ecified					
Cautions											
Uplift of -2280 lbs found	at bearing B1.										
	5										



# Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1st Floor/Flush Beams/B1-2(i1038) (Flush Beam)



December 22, 2021 10:31:03

er Report	Dry   2 spans   No cant.	December 22
Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
	Description:	1st Floor\Flush Beams\B1-2(i1038)
	Specifier:	
KC-Truss & Panel	Designer:	Don Happel
ESR-1040	Company:	Boise Cascade BMD - Lee's Summit
	Lot 323 Park Ridge KC-Truss & Panel	Lot 323 Park Ridge File name: Description: Specifier: KC-Truss & Panel Designer:

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

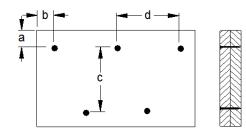
Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 15-10-08.

# **Connection Diagram: Full Length of Member**



a minimum = 2" c = 5-1/2" b minimum = 3" d = 24"

Calculated Side Load = 0.0 lb/ft Connectors are: 3-1/4 in. Pneumatic Gun Nails

## Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

	Boise Cascade® ENGINEERED WOOD PRODUCTS		1et F	Eloor\Eli	ush Beam	e\R2(i733)	(Fluch	Boam)					
3C	CALC® Member F	Report	15(1		Dry   2 span	• •	•	Deam		De	ecembei	r 22, 202	1 10:31:03
	d 8014	I			<b>J</b>	I						, -	
Job	name:	_ot 323 Pa	ark Ridge			File name	e: Lo	ot 323 Pa	ark Ridg	e.mmdl			
٩dd	ress:					Descriptio	on: 1s	st Floor\F	lush Be	ams\B2(	i733)		
City	, State, Zip:					Specifier:							
		<c-truss &<="" td=""><td></td><td></td><td></td><td>Designer</td><td></td><td>on Happ</td><td></td><td></td><td></td><td></td><td></td></c-truss>				Designer		on Happ					
Cod	le reports:	ESR-1040				Company	/: Bo	oise Cas	cade BN	/ID - Lee	's Sumn	nit	
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∦— B1	1		06-09-03			B2			05	5-09-12			B3
				Total Ho	orizontal Pro		= 12-06-1	15					20
	action Summa									_			
<u>Bea</u> l	ring	Live	De										
24	0.7/16"				SI	now		Wind		Roo	f Live		
	2-7/16"	82 / 11	16	9/0	Si	ıow		Wind		Roo	f Live		
B2,	3-1/2"	82 / 11 231 / 1	16 4 55	9 / 0 6 / 0	Si	<u>10W</u>		Wind		Roo	f Live		
B2,		82 / 11	16 4 55	9/0	Si	IOW		Wind		Roo	f Live		
32, 33,	3-1/2" 3-1/2"	82 / 11 231 / 1	16 4 55	9 / 0 6 / 0	<u> </u>	10W		Live	Dead	<u>Roo</u> Snow	f Live Wind	Roof	Tributar
32, 33, L <b>oa</b>	3-1/2" 3-1/2" ad Summary	82 / 11 231 / 1	16 4 55 9 19	9 / 0 6 / 0	Start	now	Loc.		Dead 90%			Roof Live 125%	Tributar
32, 33, <b>_Оа</b> Гад	3-1/2" 3-1/2"	82 / 11 231 / 1	16 4 55	9 / 0 6 / 0 4 / 0				Live		Snow	Wind	Live	Tributar
32, 33, <b>_Oa</b> [ag]	3-1/2" 3-1/2" ad Summary <u>Description</u> Self-Weight FC2 Floor Decki	82 / 11 231 / 1 100 / 3	16 4 55 9 19 Load Type	9 / 0 6 / 0 4 / 0 <b>Ref.</b>	Start	End	Loc.	Live	90%	Snow	Wind	Live	00-00-0
32, 33, L <b>O</b> a [ag] 1	3-1/2" 3-1/2" ad Summary <u>Description</u> Self-Weight FC2 Floor Decki View Fill)	82 / 11 231 / 1 100 / 3	16 4 55 9 19 <u>Load Type</u> Unf. Lin. (lb/ft) Unf. Lin. (lb/ft)	9 / 0 6 / 0 4 / 0 <b>Ref.</b> L	<b>Start</b> 00-00-00	<b>End</b> 12-06-15	Loc. Top	Live 100%	<b>90%</b> 5	Snow	Wind	Live	00-00-0 n\
32, 33, <b>LO</b> a [ag] ]	3-1/2" 3-1/2" ad Summary <u>Description</u> Self-Weight FC2 Floor Decki View Fill) 64(i121) FC2 Floor Decki	82 / 11 231 / 1 100 / 3	16 4 55 9 19 <u>Load Type</u> Unf. Lin. (lb/ft)	9 / 0 6 / 0 4 / 0 <b>Ref.</b> L L	<b>Start</b> 00-00-00 00-00-00	<b>End</b> 12-06-15 10-10-15	<b>Lос.</b> Тор Тор	Live 100%	<b>90%</b> 5 7	Snow	Wind	Live	00-00-0 n\ n\
32, 33, <b>LO</b> a [ag] 1	3-1/2" 3-1/2" ad Summary <u>Description</u> Self-Weight FC2 Floor Decki View Fill) 64(i121)	82 / 11 231 / 1 100 / 3	16 4 55 9 19 <u>Load Type</u> Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft)	9 / 0 6 / 0 4 / 0 <b>Ref.</b> L L L	<b>Start</b> 00-00-00 00-00-00 00-02-14	End 12-06-15 10-10-15 12-02-14	<b>Loc.</b> Тор Тор Тор	Live 100% 27	<b>90%</b> 5 7	Snow	Wind	Live	00-00-0 n\ n\
32, 33, L <b>oa</b>	3-1/2" 3-1/2" ad Summary <u>Description</u> Self-Weight FC2 Floor Decki View Fill) 64(i121) FC2 Floor Decki View Fill) B6(i1041)	82 / 11 231 / 1 100 / 3	16 4 55 9 19 <u>Load Type</u> Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft)	9 / 0 6 / 0 4 / 0 <b>Ref.</b> L L L L	Start 00-00-00 00-00-00 00-02-14 10-10-15	End 12-06-15 10-10-15 12-02-14 12-03-07	<u>Loc.</u> Тор Тор Тор Тор	Live 100% 27 7	<b>90%</b> 5 7 57	Snow	Wind	Live	
32, 33, <b>LO</b> ( <u>rag</u> ) 1 2 3 4	3-1/2" 3-1/2" ad Summary Description Self-Weight FC2 Floor Decki View Fill) 64(i121) FC2 Floor Decki View Fill)	82 / 11 231 / 1 100 / 3	16 4 55 9 19 Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs)	9 / 0 6 / 0 4 / 0 <u>Ref.</u> L L L L	Start 00-00-00 00-02-14 10-10-15 10-10-01 10-10-01	End 12-06-15 10-10-15 12-02-14 12-03-07 10-10-01	Loc. Top Top Top Top Back Back	Live 100% 27 7 84	<b>90%</b> 5 7 57	Snow	Wind	Live	00-00-0 n\ n\ n\
32, 33, <b>-Oa</b> - <b>ag</b> 	3-1/2" 3-1/2" ad Summary <u>Description</u> Self-Weight FC2 Floor Decki View Fill) 64(i121) FC2 Floor Decki View Fill) B6(i1041) B6(i1041)	82 / 11 231 / 1 100 / 3	16 4 55 9 19 Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Conc. Pt. (Ibs) Conc. Pt. (Ibs) Conc. Pt. (Ibs)	9 / 0 6 / 0 4 / 0 <u>Ref.</u> L L L L L L	Start 00-00-00 00-02-14 10-10-15 10-10-01 10-10-01 12-05-02	End 12-06-15 10-10-15 12-02-14 12-03-07 10-10-01 10-10-01	Loc. Top Top Top Top Back Back	Live 100% 27 7 84 -37	<b>90%</b> 5 7 57 91 11	Snow	Wind	Live	0-00-00 /n /n /n /n
32, 33, <b>Loa</b> <b>Fag</b> 0 1 2 3 4 5 5 6 <b>Co</b>	3-1/2" 3-1/2" ad Summary <u>Description</u> Self-Weight FC2 Floor Decki View Fill) 64(i121) FC2 Floor Decki View Fill) B6(i1041) B6(i1041) 51(i108)	82 / 11 231 / 1 100 / 3 ng (Plan ng (Plan	16 4 55 9 19 Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Conc. Pt. (Ibs) Conc. Pt. (Ibs) Conc. Pt. (Ibs)	9 / 0 6 / 0 4 / 0 <u>Ref.</u> L L L L	Start           00-00-00           00-02-14           10-10-15           10-10-01           10-10-01           12-05-02           able         D	End 12-06-15 10-10-15 12-02-14 12-03-07 10-10-01 10-10-01 12-05-02	Loc. Top Top Top Top Back Back Top	Live 100% 27 7 84 -37	90% 5 7 57 91 11 tion	Snow	Wind	Live	00-00-0 n\ n\ n\ n\
32, 33, <b>LO</b> <b>ag</b> 1 2 3 4 5 5 5 5 <b>CO</b>	3-1/2" 3-1/2" ad Summary <u>Description</u> Self-Weight FC2 Floor Decki View Fill) 64(i121) FC2 Floor Decki View Fill) B6(i1041) B6(i1041) 51(i108) ntrols Summa	82 / 11 231 / 1 100 / 3 ng (Plan ng (Plan ng (Plan 351	16 4 55 9 19 Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) Conc. Pt. (lbs)	9 / 0 6 / 0 4 / 0 E L L L L L S <b>Allow</b>	Start           00-00-00           00-02-14           10-10-15           10-10-01           10-10-01           12-05-02           able         D           1	End 12-06-15 10-10-15 12-02-14 12-03-07 10-10-01 10-10-01 12-05-02 Puration	Loc. Top Top Top Back Back Top Case	Live 100% 27 7 84 -37 • Loca	90% 5 7 57 91 11 tion 8-14	Snow	Wind	Live	00-00-00 n\ n\ n\ n\
32, 33, <b>LO</b> <b>ag</b> 1 2 3 4 5 5 5 5 <b>CO</b> Neg	3-1/2" 3-1/2" ad Summary <u>Description</u> Self-Weight FC2 Floor Decki View Fill) 64(i121) FC2 Floor Decki View Fill) B6(i1041) B6(i1041) 51(i108) <u>ntrols Summa</u> . Moment	82 / 11 231 / 1 100 / 3 ng (Plan ng (Plan ng (Plan 351 -50	16 4 55 9 19 Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Unf. Lin. (Ib/ft) Conc. Pt. (Ibs) Conc. Pt. (Ibs) Conc. Pt. (Ibs) Conc. Pt. (Ibs)	9 / 0 6 / 0 4 / 0 <b>Ref.</b> L L L L L L <b>% Allow:</b> 5.0%	Start           00-00-00           00-02-14           10-10-15           10-10-01           10-10-01           12-05-02           able         D           1	End 12-06-15 10-10-15 12-02-14 12-03-07 10-10-01 10-10-01 12-05-02 Puration 00%	Loc. Top Top Top Back Back Back Top Case 4	Live 100% 27 7 84 -37 9 Loca 10-0	90% 5 7 57 91 11 8-14 9-03	Snow	Wind	Live	0-00-00 /n /n /n /n
32, 33, <b>Fag</b> 1 2 3 4 5 5 5 <b>Co</b> Sos Neg End	3-1/2" 3-1/2" ad Summary <u>Description</u> Self-Weight FC2 Floor Decki View Fill) 64(i121) FC2 Floor Decki View Fill) B6(i1041) B6(i1041) 51(i108) <b>ntrols Summa</b> . Moment . Moment	82 / 11 231 / 1 100 / 3 ng (Plan ng (Plan ng (Plan 351 -50 268	16 4 55 9 19 Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) Conc. Pt. (lbs) Conc. Pt. (lbs) 2 ft-lbs 2 ft-lbs	9 / 0 6 / 0 4 / 0 <b>Ref.</b> L L L L L L S.0% 7.6%	Start           00-00-00           00-02-14           10-10-15           10-10-01           10-10-01           12-05-02           able         D           1           1	End 12-06-15 10-10-15 12-02-14 12-03-07 10-10-01 10-10-01 12-05-02 00% 00% 00%	Loc. Top Top Top Back Back Top Case 4 1	Live 100% 27 7 84 -37 9 Loca 10-0 06-0	90% 5 7 57 91 11 8-14 9-03 5-15	Snow	Wind	Live	0-00-00 /n /n /n /n
32, 33, <b>[ag</b> ] 1 2 3 4 5 5 6 <b>Co</b> ] 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3-1/2" 3-1/2" ad Summary <u>Description</u> Self-Weight FC2 Floor Decki View Fill) 64(i121) FC2 Floor Decki View Fill) B6(i1041) B6(i1041) 51(i108) <b>ntrols Summa</b> . Moment . Moment Shear	82 / 11 231 / 1 100 / 3 ng (Plan ng (Plan ng (Plan 1 1 1 1 2 1 2 68 308	16 4 55 9 19 Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Unf. Lin. (lb/ft) Conc. Pt. (lbs) Conc. Pt. (lbs) Conc. Pt. (lbs) Conc. Pt. (lbs) Conc. Pt. (lbs) Eft-lbs 105	9 / 0 6 / 0 4 / 0 <b>Ref.</b> L L L L L L S.0% 7.6% 8.5%	<u>Start</u> 00-00-00 00-02-14 10-10-15 10-10-01 12-05-02 able <u>1</u> 1 1 1	End 12-06-15 10-10-15 12-02-14 12-03-07 10-10-01 10-10-01 12-05-02 00% 00% 00% 00%	Loc. Top Top Top Back Back Back Top <b>Case</b> 4 1 4	Live 100% 27 7 84 -37 9 Loca 10-0 06-0 11-0	90% 5 7 57 91 11 <u>tion</u> 8-14 9-03 5-15 8-07	Snow	Wind	Live	0-00-00 /n /n /n /n
32, 33, <b>Fag</b> (1) 23 4 55 50 <b>Co</b> Son Fota	3-1/2" 3-1/2" ad Summary <u>Description</u> Self-Weight FC2 Floor Decki View Fill) 64(i121) FC2 Floor Decki View Fill) B6(i1041) B6(i1041) B6(i1041) 51(i108) <b>ntrols Summa</b> . Moment Shear .t. Shear	82 / 11 231 / 1 100 / 3 ng (Plan ng (Plan ng (Plan 351 -50 268 308 L/9	16           4         55           9         19           Unf. Lin. (lb/ft)           Conc. Pt. (lbs)           Conc. Pt. (lbs)           Conc. Pt. (lbs)           Conc. Pt. (lbs)           Sonc. Pt. (lbs)	9 / 0 6 / 0 4 / 0 <b>Ref.</b> L L L L L S.0% 7.6% 8.5% 9.8%	Start           00-00-00           00-02-14           10-10-15           10-10-01           12-05-02           able         1           1           1           1	End 12-06-15 10-10-15 12-02-14 12-03-07 10-10-01 10-10-01 12-05-02 00% 00% 00% 00% 00%	Loc. Top Top Top Back Back Back Top <b>Case</b> 4 1 4 1	Live 100% 27 7 84 -37 <u>• Loca</u> 10-0 06-0 11-0 07-0	90% 5 7 57 91 11 <u>tion</u> 8-14 9-03 5-15 8-07 1-05	Snow	Wind	Live	0-00-00 /n /n /n /n
32, 33, <b>Fag</b> (1) 23 4 55 6 <b>Co</b> (1) 23 4 55 6 <b>Co</b> (1) 23 5 7 5 7 5 7 5 7 5 7 5 7 7 8 7 7 7 7 7 7	3-1/2" 3-1/2" ad Summary <u>Description</u> Self-Weight FC2 Floor Decki View Fill) 64(i121) FC2 Floor Decki View Fill) B6(i1041) B6(i1041) 51(i108) <b>ntrols Summa</b> Moment Shear t. Shear al Load Deflection	82 / 11 231 / 1 100 / 3 ng (Plan ng (Plan ng (Plan 351 -50 268 308 L/99 L/99	16           4         55           9         19           Unf. Lin. (Ib/ft)         Unf. Lin. (Ib/ft)           Unf. Lin. (Ib/ft)         Unf. Lin. (Ib/ft)           Unf. Lin. (Ib/ft)         Unf. Lin. (Ib/ft)           Conc. Pt. (Ibs)         Conc. Pt. (Ibs)           Conc. Pt. (Ibs)         Conc. Pt. (Ibs)           Conc. Pt. (Ibs)         Sonc. Pt. (Ibs)           Sonc. Pt. (Ibs)         Sonc. Pt. (Ibs)           9         (1000)	9 / 0 6 / 0 4 / 0 <b>Ref.</b> L L L L L <b>% Allow</b> 5.0% 7.6% 8.5% 9.8% n\a	<u>Start</u> 00-00-00 00-02-14 10-10-15 10-10-01 10-10-01 12-05-02 able <u>D</u> 1 1 1 1 1 1 1	End 12-06-15 10-10-15 12-02-14 12-03-07 10-10-01 10-10-01 12-05-02 Puration 00% 00% 00% 00% \a	Loc. Top Top Top Back Back Top Case 4 1 4 1 3	Live 100% 27 7 84 -37 <u>• Loca</u> 10-0 06-0 11-0 07-0 03-0	90% 5 7 57 91 11 <u>tion</u> 8-14 9-03 5-15 8-07 1-05 3-02	Snow	Wind	Live	0-00-00 /n /n /n /n
32, 33, <b>Fag</b> (1) (1) (2) (1) (2) (2) (1) (2) (2) (2) (3) (3) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	3-1/2" 3-1/2" ad Summary <u>Description</u> Self-Weight FC2 Floor Decki View Fill) 64(i121) FC2 Floor Decki View Fill) B6(i1041) B6(i1041) 51(i108) <b>ntrols Summa</b> Moment Shear t. Shear al Load Deflection boat Deflection	82 / 11 231 / 1 100 / 3 ng (Plan ng (Plan ng (Plan 351 -50 268 308 L/99 L/99	16           4         55           9         19           Unf. Lin. (lb/ft)           Conc. Pt. (lbs)           Conc. Pt. (lbs)           Conc. Pt. (lbs)           Conc. Pt. (lbs)           Sonc. Pt. (lbs)           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9	9 / 0 6 / 0 4 / 0 <b>Ref.</b> L L L L L S.0% 7.6% 8.5% 9.8% n\a n\a	<u>Start</u> 00-00-00 00-02-14 10-10-15 10-10-01 12-05-02 able <u>D</u> 1 1 1 1 1 1 1 1 1 1 1	End 12-06-15 10-10-15 12-02-14 12-03-07 10-10-01 10-10-01 12-05-02 Duration 00% 00% 00% 00% 00% \a \a	Loc. Top Top Top Back Back Top Case 4 1 4 1 3 7	Live 100% 27 7 84 -37 9 Loca 10-0 06-0 11-0 07-0 03-0 03-0	90% 5 7 57 91 11 8-14 9-03 5-15 8-07 1-05 3-02 5-08	Snow	Wind	Live	00-00-0 n' n' n' n

Bearin	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Beam	2-7/16" x 1-3/4"	250 lbs	14.7%	7.9%	Unspecified
B2	Wall/Plate	3-1/2" x 1-3/4"	787 lbs	30.2%	17.1%	Unspecified
B3	Wall/Plate	3-1/2" x 1-3/4"	294 lbs	11.3%	6.4%	Unspecified



# Single 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1st Floor\Flush Beams\B2(i733) (Flush Beam)



December 22, 2021 10:31:03

323 Park Ridge.mmdl Floor\Flush Beams\B2(i733)

se Cascade BMD - Lee's Summit

BC CALC® Membe	r Report	Dry   2 spans   No cant.	
Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park
Address:		Description	: 1st Floor\Flus
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascad

#### Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 06-05-01.

#### Disclosure

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	Boise Cascade <sup>®</sup> ENGINEERED WOOD PRODUCTS		Double	1-3/4"	x 9-1/2"	VERSA-L	AM® 2	2.0 310	00 SP			P	ASSED
BC C	CALC® Member	Report	1st	Floor\Fl		<b>s\B3-2(i75</b> 3 ans   L cant.	8) (Flush	n Beam	)	De	ecember	22, 202	1 10:31:03
Build	l 8014												
Job r Addr		Lot 323 Pa	rk Ridge			File name Description		t 323 Pa	•	e.mmdl ams∖B3-	2(i753)		
	State, Zip:					Specifier			iusii De	ams\DJ-	2(1755)		
		KC-Truss &	& Panel			Designer		on Happ	el				
Code		ESR-1040				Company				/ID - Lee	s Summ	nit	
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		<u>+   +</u> L	<u>+ + + +</u> 	++	<u>+ + +</u>	<u>+ + +</u> ↓1↓↓		<u>+ +</u>	<u>+ +</u>	<u> </u>	<u>· +</u> ↓ ↓	<u>+ +</u> 	<u>+ +</u> 
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<i>_</i>	02-00-11	а В1				C	9-03-02						B2
		DI		Total I	Horizontal Pi	oduct Length	= 11-03-1	3					D2
	ction Summa		• • •	•		_				_			
Beari	ing 3-1/2"	Live 329 / 0		<b>Dead</b> 588 / 0		Snow	V	Vind		Roo	f Live		
	2-3/8"	251/8		336 / 0									
,_													
Loa	d Summary							Live	Dead	Snow	Wind	Roof	Tributary
	Description		Load Type	Re	f. Start	End	Loc.	100%	90%	115%	160%	Live 125%	
0	Self-Weight		Unf. Lin. (lb/i		00-00-0		Тор	100 /8	10	11370	100 /8	12370	00-00-00
1	FC2 Floor Deck View Fill)	ing (Plan	Unf. Lin. (lb/i	,	00-00-0		Тор	30	8				n\a
2	FC2 Floor Deck View Fill)	ing (Plan	Unf. Lin. (Ib/i	it) L	00-00-0	0 01-10-15	Тор	6					n\a
3	E31(i101)		Unf. Lin. (Ib/1	ť) L	00-02-0	6 01-10-14	Тор		57				n∖a
4	FC2 Floor Deck View Fill)	ing (Plan	Unf. Lin. (Ib/i	t) L	01-10-1	5 11-03-13	Тор	23	6				n∖a
5	69(i126)		Unf. Lin. (Ib/1	,	02-02-0		Тор		57				n∖a
6	E32(i100)		Conc. Pt. (lb		00-00-1		Тор		53				n∖a
7	E30(i99)		Conc. Pt. (Ib	s) L	02-00-1	0 02-00-10	Тор		17				n\a
Cor	ntrols Summa	a <b>ry</b> Valu	Ie	% Allo	wable	Duration	Case	Loca	tion				
Pos.	Moment	126	5 ft-lbs	9.1%		100%	3	06-0	9-05				
-	Moment		) ft-lbs	3.4%		100%	1	02-0					
	Shear	466		7.4%		100%	3	10-0					
	. Shear	518		8.2%		100%	1	02-1					
	I Load Deflection Load Deflection		99 (0.037") 99 (0.017")	n∖a n∖a		n∖a n∖a	3 6	06-0 06-0					
	Neg. Defl.		/1998 (-0.024"			n\a	3	00-0					
Max	-	0.03	•	, n∖a		n∖a	3	06-0					
	. Max Defl.	-0.0		n\a		n∖a	3	00-0					
Spar	n / Depth	11.5	5										
					0/ АШ	0/ ▲11							
Bea	ring Support	: <b>S</b> _Dim. (L)	<u>(W)</u> V	alue	% Allow Support	% Allow Member	Materia	al					
B1	Wall/Plate	3-1/2" x	(3-1/2" 9	17 lbs	17.6%	10.0%	Unspe	ecified					
B2	Wall/Plate	2-3/8" x	(3-1/2" 5	37 lbs	16.6%	9.4%	Unspe	cified					



# Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1st Floor\Flush Beams\B3-2(i753) (Flush Beam)



December 22, 2021 10:31:03

BC CALC® Memb	er Report	Dry   2 spans   L cant.	December 22
Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Flush Beams\B3-2(i753)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (1") Cantilever Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

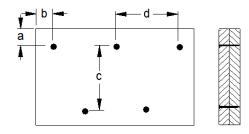
BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition.

Cantilevers require sheathed bottom flanges, blocking at cantilever support and closure at ends.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 08-11-00.

## **Connection Diagram: Full Length of Member**



a minimum = 2" c = 5-1/2" b minimum = 3" d = 24"

Calculated Side Load = 0.0 lb/ft Connectors are: 3-1/4 in. Pneumatic Gun Nails

## Disclosure

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3C CA Build 8	LC® Member Re	eport			oor\Flu			an   No	•	-) (	511 2	cam	)	D	ecembe	r 22, 202	21 10:31:03
ob na ddres	me: Lo ss:	ot 323 Park	Ridge					Des	name	on: 1			-	e.mmdl eams\B4	-2(i1040	)	
-	tate, Zip:	C-Truss & F	Donal						cifier:		7 a a U		.1				
Custon Code r		SR-1040	ranei						igner: npany		Don H Boise			MD - Lee	e's Sumr	nit	
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		43													÷		
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earing	3	Live 1335 / 63			<b>ad</b> 45 / 0		S	Snow			Wind			Roc	of Live		
31, 3" 32, 3"		1335 / 63			45/0 0/0												
, -																	
oad	Summary										Liv	/e	Dead	Snow	Wind	Roof Live	Tributar
	escription		.oad Type		Ref.		Start		nd	Loc.	10	0%	90%	115%	160%	125%	
	elf-Weight		Jnf. Lin. (	. ,	L		-00-00			Тор			10				00-00-00
	1(i108) 22 Elece Decking		Jnf. Lin. (	` '	L		-00-00		3-15	Тор Тар	44		57				n\:
	C2 Floor Decking iew Fill)	g (Plan C	Jnf. Lin. (	(11/01)	L	00-	-00-00	01-0	1-00	Тор	41						n\;
-		(	Conc. Pt.	(lbs)	L	01-	01-00	01-0	1-00	Front	69	3	402				n\a
- 1			Conc. Pt.	• •	L		01-00			Front	-32	2					n\a
; -			Conc. Pt.		L		-05-00			Front	57		456				n\
i -			Conc. Pt.	• •	L		-05-00			Front	-29						n\a
-			Conc. Pt.	• •	L		-09-00		9-00	Front	57		374				n\a
- 8			Conc. Pt.		L		-09-00			Front	-29						n\a
- 0			Conc. Pt. Conc. Pt.	• •	L		·01-00 ·01-00			Front Front	64 -3		249				n∖ n∖
			JUNC. F1.	(ibs)	L	03-	-01-00	03-0	1-00	FION	-3	I					114
	rols Summar	<b>Y Value</b> 3550 f	tlbe		% Allow 25.4%	able		Duratio 100%	n	<u>Cas</u>		<u>-ocat</u> 03-00					
nd Sh		2254 I			25.4 <i>%</i> 35.7%			100%		1		) ) ) ) ) ) ) ) )					
	oad Deflection		(0.046")		n\a			n∖a		1		)3-02					
	ad Deflection		(0.026")		n∖a			n∖a		3		)3-02					
lax De		0.046'	. ,		n\a			n∖a		1		03-02					
Span /	Depth	7.5															
						% All	ow	% All	low								
	ng Supports			Valu		Supp	ort	Mem	ber	Mate							
31 32	Wall/Plate Wall/Plate	3" x 3-1/2 3" x 3-1/2			0 lbs 6 lbs	53.3° 46.3°		30.2° 26.2°		-	pecifie pecifie						
-				_00			-		-	29							

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-00-15.



**BC CALC® Member Report** 

# Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

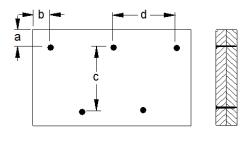


1st Floor\Flush Beams\B4-2(i1040) (Flush Beam) Dry | 1 span | No cant.

December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Flush Beams\B4-2(i1040)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

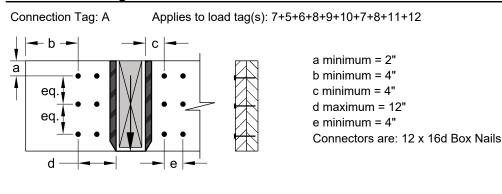
## **Connection Diagram: Full Length of Member**



a minimum = 2" c = 5-1/2" b minimum = 3" d = 12"

Calculated Side Load = 476.0 lb/ft Connectors are: 16d Common Nails

## **Connection Diagrams: Concentrated Side Loads**



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		Boise			de <sup>®</sup>					Do	ub	le 1	-3/4	" х	<b>( 9</b> -	1/2	<u>؟</u> " ۱	/EF	SA	-L	AM	® 2	2.0	31	00	) SI	Ρ						F	PAS	SED
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BC Bui				Μ	lemb	er l	Rep	oort										an   N	•		, (				,				De	ce	mbe	er 22	2, 20	21 1	0:31:03
Job							Lot	323 Pa	ark F	Ridge	e							Fi	le na	me	<b>:</b> :	Lo	t 32	23 F	Parl	< Ric	lge.	mm	dl						
Ado	dre	ess								•								D	escri	ptic	on:					ish E	-			2(i8	364)				
City	<b>/</b> ,	Sta	te,	Zi	p:													S	pecif	er:															
Cu	sto	ome	er:				KC	-Truss	& Pa	anel								D	esigr	ner:		Do	n ł	Hap	pel										
Co	de	rep	oort	ts:			ES	R-1040	)									С	omp	any	<b>'</b> :	Bo	ise	e Ca	sca	ade I	BME	) - L	.ee's	s S	Sumi	nit			
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B	4																06	6-10-00																	B2
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Bea			•					Live	••••	- 1-		De					S	now				v	Vin	d				F	Roof	Liv	ve				
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B2,	3	"						613 / 0	)			38	1/0																						
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<u>Tag</u> 0					ight					o <mark>ad T</mark>		lb/ft)	۲۲	Ref.		Sta 0-00		06	End -10-	20	Loc Top		1	00%		<b>90%</b> 10		115	%	10	60%	1	25%		00-00-00
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Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009. Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-02-00.



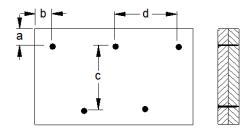
# Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1st Floor\Flush Beams\B4-2(i864) (Flush Beam)



22, 2021 10:31:03 

BC CALC® Memb Build 8014	er Report	Dry   1 span   No cant.	, December 22, 2021
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address: City, State, Zip:		Description: Specifier:	1st Floor\Flush Beams\B4-2(i864)
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

## **Connection Diagram: Full Length of Member**



a minimum = 2" c = 5-1/2" b minimum = 3" d = 12"

Calculated Side Load = 561.0 lb/ft Connectors are: 16d Common Nails

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		Doub	le 1-3/4"	x 9-1/2" \	/ERSA-L	AM®	2.0 310	)0 SP			P	ASSED
ENGINEERE	D WOOD PRODUCTS	1	st Floor\Flu	ush Beams	\B5-2(i1054	4) (Flus	sh Beam	ı)				
BC CALC	® Member Re				n   No cant.				De	ecember	22, 202	1 10:31:03
3uild 8014	4											
lob name	: Lo	t 323 Park Ridge			File name		ot 323 Pa	-				
Address:					Descriptio	on: 1:	st Floor∖F	lush Be	ams∖B5-	2(i1054)		
City, State					Specifier:	_						
Customer		C-Truss & Panel			Designer:		on Happe				.,	
Code repo	Drts: ES	SR-1040			Company	: В	oise Cas		/ID - Lee	's Sumn	lit	
4		1			2/					3		
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B1												B2
	•			Horizontal Pro	oduct Length	= 04-03-	00					
Reactio Bearing	n Summar	y (Down / Uplift Live	Dead	c	Snow	,	Wind		Poo	f Live		
31, 3-1/2"	1	171/0	116 / 0	3			winu			LIVE		
B2, 3-1/2"		204 / 0	80 / 0									
,												
Load Su	ummary						Live	Dead	Snow	Wind	Roof	Tributar
Гag Desc	ription	Load Type	e Re	f. Start	End	Loc.	100%	90%	115%	160%	Live 125%	
	Weight	Unf. Lin. (		00-00-00	04-03-00	Тор		10				00-00-0
1 J7-16	6" O.C.(i863)	Conc. Pt.	(lbs) L	00-11-08	00-11-08	Back	125	76				n\
2 J7-10	6" O.C.(i783)	Conc. Pt.	(lbs) L	02-03-08	02-03-08	Back	125	31				n\
	6" O.C.(i785)	Conc. Pt.	. ,	03-07-08		Back	125	31				n\
4 52(i1	109)	Conc. Pt.	(lbs) L	00-01-12	00-01-12	Тор		17				n\a
Control	s Summary	V Value	% Allo	wable I	Duration	Case	e Loca	tion				
	s Summary	<b>Y Value</b> 264 ft-lbs	<u>% Allo</u> 1.9%		Duration 100%	Case	e Locat					
Pos. Mom	ient							3-08				
Pos. Mom End Shea	ient	264 ft-lbs	1.9%		100%	1	02-03	3-08 1-00				
Pos. Mom End Shea Total Load Live Load	ient r	264 ft-lbs 228 lbs L/999 (0.001") L/999 (0.001")	1.9% 3.6%	1	100% 100%	1 1	02-03 01-01	3-08 1-00 1-04				
Pos. Mom End Shea Total Load Live Load	ient r d Deflection	264 ft-lbs 228 lbs L/999 (0.001")	1.9% 3.6% n∖a	1	100% 100% n\a	1 1 1	02-03 01-0 02-0	3-08 1-00 1-04 1-11				
Pos. Mom End Shea Total Load Live Load Max Defl.	ient r d Deflection Deflection	264 ft-lbs 228 lbs L/999 (0.001") L/999 (0.001")	1.9% 3.6% n\a n\a	1	100% 100% n\a n\a	1 1 1 2	02-03 01-0 02-0 02-0	3-08 1-00 1-04 1-11				
Pos. Mom End Shea Total Load Live Load Max Defl. Span / De	ent r d Deflection Deflection pth	264 ft-lbs 228 lbs L/999 (0.001") L/999 (0.001") 0.001" 4.8	1.9% 3.6% n\a n\a	- - - - -	100% 100% n\a n\a n\a	1 1 1 2	02-03 01-0 02-0 02-0	3-08 1-00 1-04 1-11				
Pos. Mom End Shea Total Load Live Load Max Defl. Span / De	ient r d Deflection Deflection	264 ft-lbs 228 lbs L/999 (0.001") L/999 (0.001") 0.001" 4.8 Dim. (LxW)	1.9% 3.6% n\a n\a Value	1	100% 100% n\a n\a	1 1 1 2	02-0: 01-0 <sup>-</sup> 02-0 <sup>-</sup> 02-0 <sup>-</sup> 02-0 <sup>-</sup>	3-08 1-00 1-04 1-11				
Pos. Mom End Shea Total Load Live Load Max Defl. Span / De <b>Bearing</b> B1	ent r d Deflection Deflection pth Supports Wall/Plate	264 ft-lbs 228 lbs L/999 (0.001") L/999 (0.001") 0.001" 4.8 <b>Dim. (LxW)</b> 3-1/2" x 3-1/2"	1.9% 3.6% n\a n\a n\a <b>Value</b> 287 Ibs	% Allow Support 5.5%	100% 100% n\a n\a n\a <b>% Allow</b> <u>Member</u> 3.1%	1 1 2 1 <b>Mater</b> Unsp	02-0: 01-0 <sup>-</sup> 02-0 <sup>-</sup> 02-0 <sup>-</sup> 02-0 <sup>-</sup> 02-0 <sup>-</sup> <u>02-0<sup>-</sup></u>	3-08 1-00 1-04 1-11				
Pos. Mom End Shea Total Load Live Load Max Defl. Span / De <b>Bearing</b>	ent r d Deflection Deflection pth I <b>Supports</b>	264 ft-lbs 228 lbs L/999 (0.001") L/999 (0.001") 0.001" 4.8 Dim. (LxW)	1.9% 3.6% n\a n\a Value	% Allow Support	100% 100% n\a n\a n\a <b>% Allow</b> Member	1 1 2 1 <b>Mater</b> Unsp	02-0: 01-0 <sup>-</sup> 02-0 <sup>-</sup> 02-0 <sup>-</sup> 02-0 <sup>-</sup> ial	3-08 1-00 1-04 1-11				
Pos. Mom End Shea Total Load Live Load Max Defl. Span / De <b>Bearing</b> B1	ent r d Deflection Deflection pth Supports Wall/Plate	264 ft-lbs 228 lbs L/999 (0.001") L/999 (0.001") 0.001" 4.8 <b>Dim. (LxW)</b> 3-1/2" x 3-1/2"	1.9% 3.6% n\a n\a n\a <b>Value</b> 287 Ibs	% Allow Support 5.5%	100% 100% n\a n\a n\a <b>% Allow</b> <u>Member</u> 3.1%	1 1 2 1 <b>Mater</b> Unsp	02-0: 01-0 <sup>-</sup> 02-0 <sup>-</sup> 02-0 <sup>-</sup> 02-0 <sup>-</sup> 02-0 <sup>-</sup> <u>02-0<sup>-</sup></u>	3-08 1-00 1-04 1-11				

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

 $\operatorname{BC}\operatorname{CALC}{\operatorname{\$}}$  analysis is based on IBC 2009.

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-02-00.



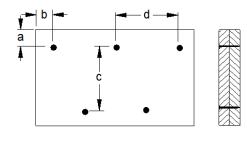
# Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1st Floor\Flush Beams\B5-2(i1054) (Flush Beam)



22. 2021 10:31:03

BC CALC® Memb Build 8014	er Report	Dry   1 span   No cant.	, December 22, 2021 10
Job name: Address:	Lot 323 Park Ridge	File name: Description:	Lot 323 Park Ridge.mmdl 1st Floor\Flush Beams\B5-2(i1054)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

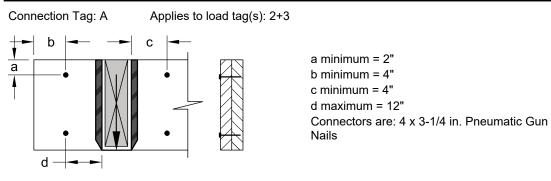
## **Connection Diagram: Full Length of Member**



a minimum = 2" c = 5-1/2" d = 24" b minimum = 3"

Calculated Side Load = 100.5 lb/ft Connectors are: 3-1/4 in. Pneumatic Gun Nails

## **Connection Diagrams: Concentrated Side Loads**



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C CALC® Member uild 8014 ob name: ddress:	Donort		-4 [] 1 []		DE 0/:750	) / <b>F</b> I	h Deem	、				ASSED
uild 8014 ob name:		13	st Floor\Flu		•	) (Flus	n Beam	)		aambar		1 10:31:03
ob name:	Report			Dry   i spa	n   No cant.				De	ecember	22, 202	1 10.31.03
	Lot 323 Pa	ork Ridae			File name	· I	ot 323 Pa	ark Rida	e mmdl			
ooress	201 0201 0	in nage			Descriptio		st Floor\F	•		2(i759)		
ity, State, Zip:					Specifier:			luon bo		2(1100)		
•	KC-Truss &	& Panel			Designer		on Happ	el				
ode reports:	ESR-1040				Company		oise Cas		/ID - Lee	's Sumr	nit	
3					1 ↓ ↓ ↓							↓ 2 ↓
	· + +	+ + +	+ + +	+ + +	0 ↓ ↓	+ +	+ +	↓ ↓ ↓	+ +	+ +	+ +	$\overline{\downarrow}$ $\overline{\downarrow}$
<sup>к</sup> В1				04	-01-14							⊀ B2
51			Total H	orizontal Pro	oduct Length	= 04-01-	14					52
eaction Summ	ary (Dow <sub>Live</sub>	/n / Uplift)	(Ibs) <sub>Dead</sub>	s	now		Wind		Roo	f Live		
1, 2-3/8"	49/0		32 / 0	0					1.00			
2, 3-1/2"	55 / 0		34 / 0									
oad Summary							Live	Dead	Snow	Wind	Roof Live	Tributary
ag Description		Load Type	Ref		End	Loc.	100%	90%	115%	160%	125%	
Self-Weight		Unf. Lin. (II		00-00-00		Тор		10				00-00-00
FC2 Floor Deck View Fill)	ing (Plan	Unf. Lin. (II	b/ft) L	00-02-06	03-10-06	Тор	26	7				n\a
FC2 Floor Deck View Fill)	ing (Plan	Unf. Lin. (II	b/ft) L	03-10-06	04-01-14	Тор	28	7				n\a
FC2 Floor Deck View Fill)	ing (Plan	Conc. Pt. (	lbs) L	00-01-03	00-01-03	Тор	1	0				n\a
ontrols Summa	ary Valu	ue	% Allov	vable [	Duration	Case	e Loca	tion				
os. Moment	75 f	ft-lbs	0.5%		100%	1	02-0	0-06				
nd Shear	44 I		0.7%		100%	1	00-1					
otal Load Deflectior		99 (0")	n∖a		n\a	1	02-0					
ve Load Deflection		99 (0")	n\a		n\a	2	02-0					
lax Defl.	0"		n∖a	r	ו∖a	1	02-0	0-06				
pan / Depth	4.8											
earing Suppor	:S Dim. (L	xW)	Value	% Allow Support	% Allow Member	Mater	ial					
1 Wall/Plate	2-3/8" >	x 3-1/2"	80 lbs	2.3%	1.3%	Unsp	ecified					
2 Wall/Plate	3-1/2" >	x 3-1/2"	90 lbs	1.7%	1.0%	Unsp	ecified					
lotes												
esign meets Code r	ninimum (L	./240) Total le	oad deflectio	n criteria.								

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

BC CALC® analysis is based on IBC 2009.

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 03-08-00.



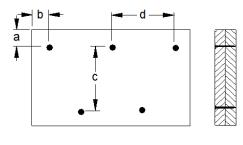
# Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1st Floor\Flush Beams\B5-2(i759) (Flush Beam)



1 10:31:03

BC CALC® Meml Build 8014	per Report	Dry   1 span   No cant.	December 22, 2021
Job name: Address: City, State, Zip:	Lot 323 Park Ridge	File name: Description: Specifier:	Lot 323 Park Ridge.mmdl 1st Floor\Flush Beams\B5-2(i759)
Customer: Code reports:	KC-Truss & Panel ESR-1040	Designer: Company:	Don Happel Boise Cascade BMD - Lee's Summit

## **Connection Diagram: Full Length of Member**



a minimum = 2" c = 5-1/2" b minimum = 3" d = 24"

Calculated Side Load = 0.0 lb/ft Connectors are: 3-1/4 in. Pneumatic Gun Nails

## Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

	Boise Cascade* ENGINEERED WOOD PRODUCTS	•			9-1/2" V Ish Beams									PAS	SED
вс	CALC® Member Repor				Dry   1 spar		<i>,</i> ,				Dece	ember	<sup>-</sup> 22, 20	21 10	0:31:03
	d 8014														
		3 Park Ridge				File name		ot 323 Pa	-						
	lress:					Descriptio		st Floor\F	-lush Be	eams∖E	36(110	)41)			
	r, State, Zip: stomer: KC-Ti	uss & Panel				Specifier: Designer		on Happ	al						
	le reports: ESR-					Company		oise Cas		MD - I	مماد ا	Sumn	nit		
		10-10				Company	·. D					Jumin	iii.		
								/6	<u>6</u>						
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	* * * * * *	+ + + +	+	+ +	+ + +	0↓↓	* *	* *	+ +	+ +	+	+	+ +	+	+
															k
					03-	-03-08									<b>D</b> 0
B	I		1	Total Ho			= 03-03-0	08							B2
		Down / Uplift)			03- Drizontal Pro		= 03-03-0	08							B2
Re Bea	action Summary (I ring Liv			)	orizontal Pro			08 Wind		R	oof L	ive			B2
<b>Re</b> Bea 31,	action Summary (I ring Liv 3-1/2" 94		(lbs)	)	orizontal Pro	duct Length				R	oof L	ive			B2
Re Bea	action Summary (I ring Liv 3-1/2" 94	/e	(Ibs) <sub>Dead</sub>	<b>)</b> 3 0	orizontal Pro	duct Length				R	oof L	ive			B2
<b>Re</b> 3ea 31, 32,	action Summary (I ring Liv 3-1/2" 94	/ 40	( <b>Ibs</b> ) Dead 95 /	<b>)</b> 3 0	orizontal Pro	duct Length			Dead	R Sno		ive Vind	Roof	 T	B2
Re Bea 31, 32,	action Summary (1 ring Liv 3-1/2" 94 2" 87 ad Summary Description	/e / 40 / 38 Load Type	( <b>Ibs</b> ) Dead 95 / 94 /	<b>)</b> 3 0	orizontal Pro Sr Start	duct Length now End		Wind	Dead 90%		w V		Roof Live 125%	•	「ributary
<b>Re</b> 3ea 31, 32, - <b>O</b>	action Summary (f ring Liv 3-1/2" 94 2" 87 ad Summary Description Self-Weight	re / 40 / 38 <u>Load Type</u> Unf. Lin. (II	( <b>Ibs</b> ) <u>Dead</u> 95 / 0 94 / 0	9 3 0 0	Start 00-00-00	duct Length now End 03-03-08	,	Wind Live		Sno	w V	Vind	Live	•	
<b>Re</b> Bea 31, 32, <b>-0</b>	action Summary (1 ring Liv 3-1/2" 94 2" 87 ad Summary Description Self-Weight 65(i122)	re / 40 / 38 <u>Load Type</u> Unf. Lin. (Il Unf. Lin. (Il	b/ft)	) 1 0 0 Ref.	Start 00-00-00 00-03-08	end <u>End</u> 03-03-08 03-03-08	Loc.	Wind Live	90%	Sno	w V	Vind	Live	•	「ributary
<b>Re</b> Bea 31, 32, <b>-0</b>	action Summary (f ring Liv 3-1/2" 94 2" 87 ad Summary Description Self-Weight	re / 40 / 38 <u>Load Type</u> Unf. Lin. (Il Unf. Lin. (Il	b/ft)	) 1 0 0 <u>Ref.</u> L	Start 00-00-00	duct Length now End 03-03-08	Loc. Top	Wind Live	<b>90%</b> 5	Sno	w V	Vind	Live	•	Fributary
<b>Re</b> <u>Bea</u> 31, 32, - <b>O</b> - - - - - - - - - - - - -	action Summary (I ring Liv 3-1/2" 94 2" 87 ad Summary Description Self-Weight 65(i122) FC2 Floor Decking (P	re / 40 / 38 <u>Load Type</u> Unf. Lin. (Il Unf. Lin. (Il	( <b>Ibs</b> ) <u>Dead</u> 95 / 0 94 / 0 b/ft) b/ft) b/ft)	) 3 0 0 <b>Ref.</b> L L	Start 00-00-00 00-03-08	end <u>End</u> 03-03-08 03-03-08	<u>Loc.</u> Тор Тор	Wind Live 100%	<b>90%</b> 5	Sno	w V	Vind	Live	•	<b>Fributary</b> 0-00-00 n\a
<b>Re</b> 3ea 31, 32, <b>-0</b> (ag)	Description         Description           Self-Weight         65(i122)           FC2 Floor Decking (P           View Fill)           J5-16" O.C.(i996)           J5-16" O.C.(i996)	/ 40 / 38 Unf. Lin. (Ik Unf. Lin. (Ik Unf. Lin. (Ik an Unf. Lin. (Ik Conc. Pt. ( Conc. Pt. (	( <b>Ibs</b> ) <u>Dead</u> 95 / 0 94 / 0 b/ft) b/ft) b/ft) b/ft) lbs)	) 0 0 <b>Ref.</b> L L L L	Start           00-00-00           00-03-08           00-03-08	End 03-03-08 03-03-08 00-11-08	<b>Loc</b> . Тор Тор Тор	Wind Live 100%	<b>90%</b> 5 57	Sno	w V	Vind	Live	•	<b>Fributary</b> 0-00-00 n\a n\a
<b>Re</b> Bea 31, 32, <b>-0</b> (ag )	Description           Self-Weight           65(i122)           FC2 Floor Decking (P           View Fill)           J5-16" O.C.(i996)           J5-16" O.C.(i1035)	re / 40 / 38 Unf. Lin. (II Unf. Lin. (II Unf. Lin. (II Conc. Pt. ( Conc. Pt. ( Conc. Pt. (	( <b>Ibs</b> ) <u>Dead</u> 95 / 0 94 / 0 b/ft) b/ft) b/ft) b/ft) lbs) lbs)	) 0 0 Ref. L L L	Start 00-00-00 00-03-08 00-01-08	End 03-03-08 03-03-08 00-11-08 00-11-08 00-11-08 02-03-08	Loc. Top Top Top Front Front	Wind Live 100% 3 84	<b>90%</b> 5 57	Sno	w V	Vind	Live	•	T <b>ributary</b> 0-00-00 n\a n\a n\a
<b>Re</b> <b>Bea</b> 31, 32, <b>C</b> <b>ag</b> 3 4 5 5	Description           Self-Weight           65(i122)           FC2 Floor Decking (P           View Fill)           J5-16" O.C.(i996)           J5-16" O.C.(i1035)           J5-16" O.C.(i1035)	re / 40 / 38 <u>Load Type</u> Unf. Lin. (II Unf. Lin. (II Unf. Lin. (II Conc. Pt. ( Conc. Pt. ( Conc. Pt. ( Conc. Pt. (	( <b>Ibs</b> ) <u>Dead</u> 95 / 0 94 / 0 b/ft) b/ft) b/ft) lbs) lbs) lbs) lbs)	) 0 0 L L L L L L L L	Start           00-00-00           00-03-08           00-11-08           00-11-08           02-03-08           02-03-08           02-03-08	End 03-03-08 03-03-08 00-11-08 00-11-08 00-11-08 02-03-08 02-03-08	Loc. Top Top Top Front Front Front Front Front	Wind Live 100% 3 84 -37	90% 5 57 -2 -4	Sno	w V	Vind	Live	•	T <b>ributary</b> 0-00-00 n\a n\a n\a
<b>Re</b> 3ea 31, 32,	Description           Self-Weight           65(i122)           FC2 Floor Decking (P           View Fill)           J5-16" O.C.(i996)           J5-16" O.C.(i1035)	re / 40 / 38 Unf. Lin. (II Unf. Lin. (II Unf. Lin. (II Conc. Pt. ( Conc. Pt. ( Conc. Pt. (	( <b>Ibs</b> ) <u>Dead</u> 95 / 0 94 / 0 b/ft) b/ft) b/ft) lbs) lbs) lbs) lbs)	) 0 0 L L L L L L L	Start           00-00-00           00-03-08           00-11-08           00-11-08           02-03-08	End 03-03-08 03-03-08 00-11-08 00-11-08 00-11-08 02-03-08	Loc. Top Top Top Front Front Front Front Front	Wind Live 100% 3 84 -37 94	<b>90%</b> 5 57 -2	Sno	w V	Vind	Live	•	Fributary 0-00-00 n\a n\a n\a n\a
<b>Re</b> <b>Bea</b> 31, 32, <b>Cag</b> 1 2 3 4 5 5 7	Description           Self-Weight           65(i122)           FC2 Floor Decking (P           View Fill)           J5-16" O.C.(i996)           J5-16" O.C.(i1035)           J5-16" O.C.(i1035)	re / 40 / 38 <u>Load Type</u> Unf. Lin. (II Unf. Lin. (II Unf. Lin. (II Conc. Pt. ( Conc. Pt. ( Conc. Pt. ( Conc. Pt. (	( <b>Ibs</b> ) <u>Dead</u> 95 / 0 94 / 0 b/ft) b/ft) b/ft) lbs) lbs) lbs) lbs)	) 0 0 L L L L L L L L	Start           00-00-00           00-03-08           00-11-08           00-11-08           02-03-08           02-03-08           00-01-12	End 03-03-08 03-03-08 00-11-08 00-11-08 00-11-08 02-03-08 02-03-08	Loc. Top Top Top Front Front Front Front Front	Wind Live 100% 3 84 -37 94 -41	<b>90%</b> 5 57 -2 -4 8	Sno	w V	Vind	Live	•	Fributary 10-00-00 n\a n\a n\a n\a n\a

Controls Summary	value	% Allowable	Duration	Case	Location	
Pos. Moment	138 ft-lbs	2.0%	100%	1	01-09-10	
End Shear	122 lbs	3.9%	100%	1	02-04-00	
Total Load Deflection	L/999 (0.001")	n∖a	n\a	1	01-08-11	
Live Load Deflection	L/999 (0")	n\a	n∖a	3	01-08-11	
Max Defl.	0.001"	n\a	n∖a	1	01-08-11	
Span / Depth	3.7					

Bearing	g Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	3-1/2" x 1-3/4"	189 lbs	7.2%	4.1%	Unspecified
B2	Hanger	2" x 1-3/4"	181 lbs	n∖a	6.9%	HU9

Cautions Header for the hanger HU9 is a Single 1-3/4" x 9-1/2" LVL Beam.

Hanger model HU9 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.



BC CALC® Member Report

# Single 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP 1st Floor\Flush Beams\B6(i1041) (Flush Beam)

Dry | 1 span | No cant.



December 22, 2021 10:31:03

Build 8014			
Job name:	Lot 323 Park Ridge	File name:	Lot 323 Park Ridge.mmdl
Address:		Description:	1st Floor\Flush Beams\B6(i1041)
City, State, Zip:		Specifier:	
Customer:	KC-Truss & Panel	Designer:	Don Happel
Code reports:	ESR-1040	Company:	Boise Cascade BMD - Lee's Summit

#### Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria. Design meets arbitrary (1") Maximum Total load deflection criteria. Design meets arbitrary (0.75") Maximum live load deflection criteria. Hanger Manufacturer: Unassigned BC CALC® analysis is based on IBC 2009. Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-02-00.

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