

25-10717 1460 SE Broadway Dr
Second Floor

User Installation Guide

Using your smart phone, follow the link below to download the onCENTER Installation Guide.



Second Floor	
Design Method	ASD (USA)
Building Code	IRC 2021
Floor	
Loads	
Live	40
Dead	15
Deflection Joist	
LL Span L/	480
TL Span L/	360
Deflection Flush Girder	
LL Span L/	480
TL Span L/	360
Deflection Dropped Girder	
LL Span L/	480
TL Span L/	360
Deflection Header	
LL Span L/	480
TL Span L/	360
Decking	
Decking	OSB
Fastener	2/32 APA Rated Sheathing
Layout Scale: 1/4" = 1'-0"	

Specified products are sized only for gravity loads shown. These loads should be verified by the purchaser. If additional loads or framing areas need to be accounted for, notify supplier of BlueLinux products so that material can be sized and price adjusted. Unless noted otherwise, hip, valley and ridge boards have not been designed and no products were designed to resist the building's lateral loads.

Glue and nail minimum 23/32" APA rated OSB or plywood to floor I-joists. Use fastener schedule for side-loaded onCENTER(R) LVL beams. For proper installation of hangers and connectors, follow manufacturer's guidelines. Connections not shown are by others.

These products were designed for "dry use" conditions only, and must be protected from long term exposure to high moisture. Moisture protection (by others) may be required.
Detail F19 Squash Block/Column shall match size of column above.

Legend

	Wall
	onCENTER Rim Board SE 1.125 X 11.875
	BLI 40 11.875
	onCENTER 2.1E LVL 1.75 X 11.875

Second Floor							
Joist							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J2	BLI 40	2.5	11.875			3	32-0-0
J1	BLI 40	2.5	11.875			45	28-0-0
Blocking							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
BP1	BLI 40	2.5	11.875	LinFt		Varies	151-0-0
LVL/LSL							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB3	onCENTER 2.1E LVL	1.75	11.875	3	2	6	6-0-0
FB2	onCENTER 2.1E LVL	1.75	11.875	1	2	2	4-0-0
Rim Board							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	onCENTER Rim Board SE 1.125 X 11.875	1.125	11.875			7	12-0-0
Hanger							
Label	Pcs	Description	Beam/Girder fasteners		Supported Member fasteners		
H1	3	IUS2.56/11.88 (Min)	10 10d				
H2	2	HUC410 (Min)	14 16d		6 10d		

- ☒ **Conforms to Design Concept**
☐ **Conforms to Design Concept with Revisions Noted**
☐ **Non-Conforming; Revise and Resubmit**

THIS SHOP DRAWING HAS BEEN REVIEWED FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY AND DOES NOT RELIEVE THE FABRICATOR, VENDOR, OR ORIGINAL DESIGN ENGINEER OF RESPONSIBILITY FOR CONFORMANCE WITH DESIGN DRAWINGS, SPECIFICATIONS, AND APPLICABLE CODES, ALL OF WHICH HAVE PRIORITY OVER THIS SHOP DRAWING.

By: [Signature] Date: 10/2/23
R.E.O. ENGINEERING, P.C.

centerTEC® 2.1E LVL Multiple Ply Fastening						
Fastener Type	Lvl Depth	Fastener Spacing	2 Ply 2" x 6" Joists	3 Ply 2" x 6" Joists	4 Ply 2" x 6" Joists	Notes
15d Hot Dipped Galvanized Screws (0.131" x 3") at corners (0.182" x 3.5")	7½" - 11½"	2 (shown)	12"			These minimum requirements are adequate only when all loads are evenly applied to full surface of all plies. If loads are applied to side flanges of joist, see designer's specification.
	14" - 18"	3"	12"			Not Permitted
	24"	4"	12"			Top and bottom rows of connectors should be 2" from edge.
¾" Through Bolts	7½" - 18"	2 (shown)	24"			Fastening for depths less than 7½" requires special consideration. Contact BlueLine.
	24"	3"	24"			Fasteners must have full embedment of shank, but need not be over-driven, over-tightened, or counter-sunk.
			3½" Screw Length	3½" Screw Length	6" Screw Length	
OSP Nails or Simpson SDS Screws	7½" - 18"	2 (shown)				But Nails Must Be 12D" To 11D" Larger Than Bottom Flange. Ends must extend through full thickness of member and at least 1" beyond. Use a spacer under head and butt.
	24"	3"				Welding chord than those indicated may be acceptable, but require evaluation. Please contact BlueLine.
			3½" 3½" Screw Length	5" Screw Length	6½" Screw Length	
Simpson SDW22 WSHR TrussLok® or Flatlok® Screws	7½" - 18"					Total screw spans per manufacturer's guidelines.
	24"	3" (shown)	24"			

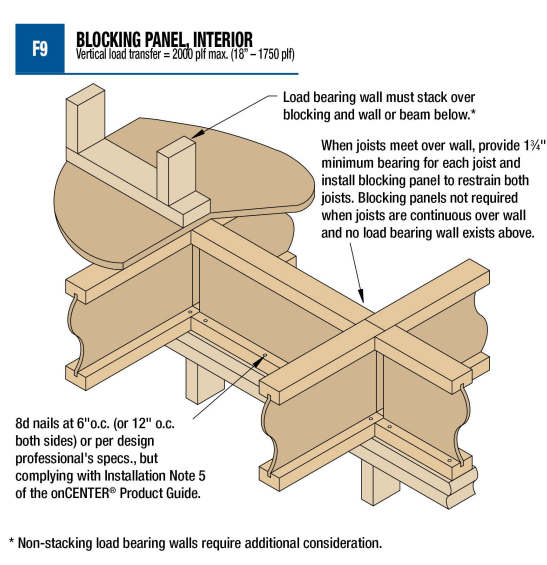
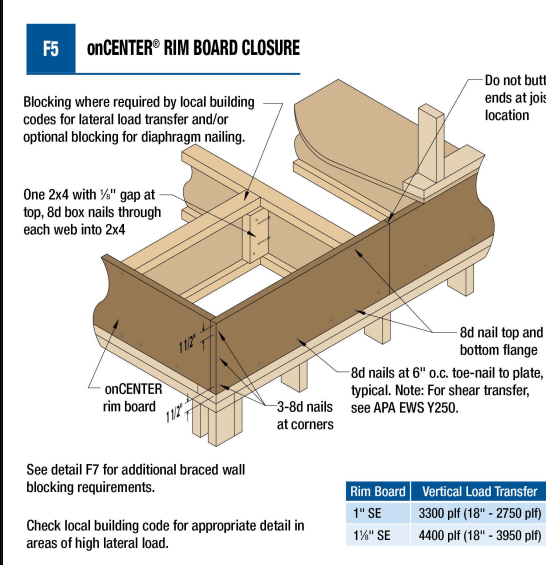
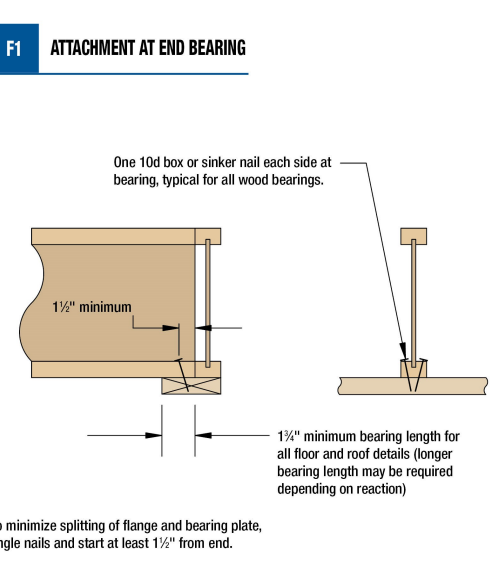
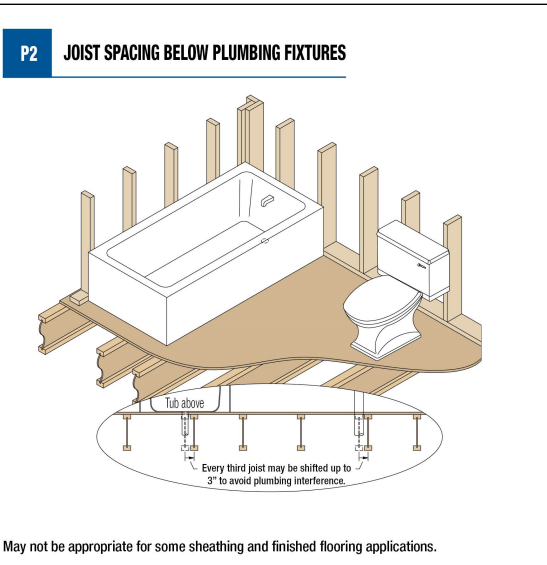
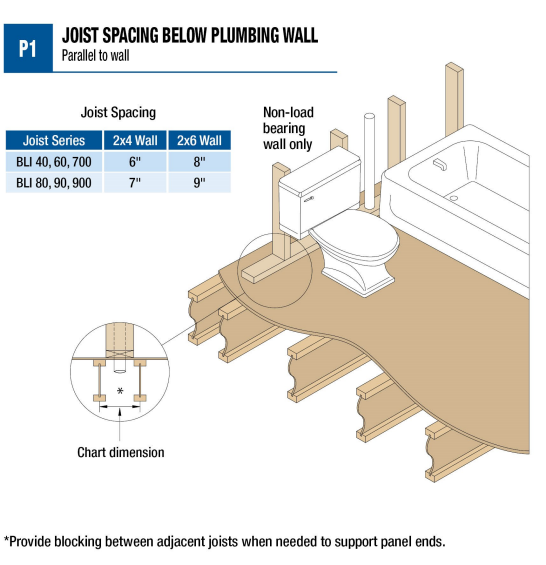
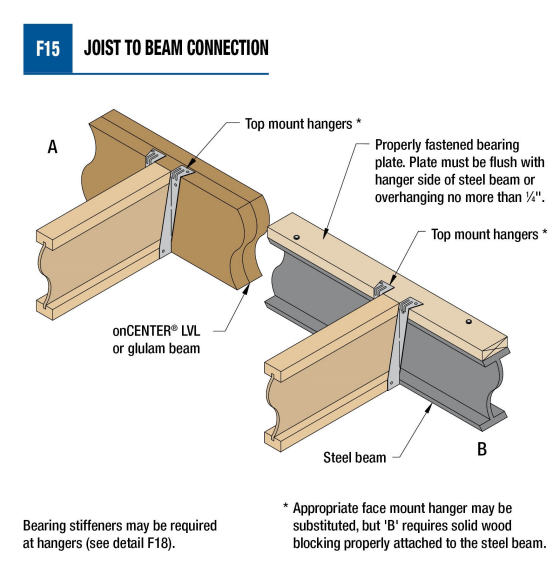


FIG. 1 DOUBLE JOIST CONSTRUCTION WITH FILLER

Note: Filler blocks and fastening between beams can be omitted when double joists are fastened only from above by the top of joist hangers, such as when a parallel bracing wall is directly connected to the double joist.

Joist Type	Joist Size	Minimum Filler Block Size	Fastening (See Detail 100)
2x10	11 1/2"	2x4 - 10' On/End/Spaced	2x10 - 10' On/End/Spaced
2x12	13 1/4"	2x4 - 10' On/End/Spaced	2x12 - 10' On/End/Spaced
2x12 HD	13 1/4"	2x4 - 10' On/End/Spaced	2x12 - 10' On/End/Spaced
2x14	15"	2x4 - 10' On/End/Spaced	2x14 - 10' On/End/Spaced
2x14 HD	15"	2x4 - 10' On/End/Spaced	2x14 - 10' On/End/Spaced
2x16	17"	2x4 - 10' On/End/Spaced	2x16 - 10' On/End/Spaced
2x16 HD	17"	2x4 - 10' On/End/Spaced	2x16 - 10' On/End/Spaced
2x18	19"	2x4 - 10' On/End/Spaced	2x18 - 10' On/End/Spaced
2x18 HD	19"	2x4 - 10' On/End/Spaced	2x18 - 10' On/End/Spaced
2x20	21"	2x4 - 10' On/End/Spaced	2x20 - 10' On/End/Spaced
2x20 HD	21"	2x4 - 10' On/End/Spaced	2x20 - 10' On/End/Spaced
2x22	23"	2x4 - 10' On/End/Spaced	2x22 - 10' On/End/Spaced
2x22 HD	23"	2x4 - 10' On/End/Spaced	2x22 - 10' On/End/Spaced
2x24	25"	2x4 - 10' On/End/Spaced	2x24 - 10' On/End/Spaced
2x24 HD	25"	2x4 - 10' On/End/Spaced	2x24 - 10' On/End/Spaced
2x26	27"	2x4 - 10' On/End/Spaced	2x26 - 10' On/End/Spaced
2x26 HD	27"	2x4 - 10' On/End/Spaced	2x26 - 10' On/End/Spaced
2x28	29"	2x4 - 10' On/End/Spaced	2x28 - 10' On/End/Spaced
2x28 HD	29"	2x4 - 10' On/End/Spaced	2x28 - 10' On/End/Spaced
2x30	31"	2x4 - 10' On/End/Spaced	2x30 - 10' On/End/Spaced
2x30 HD	31"	2x4 - 10' On/End/Spaced	2x30 - 10' On/End/Spaced
2x32	33"	2x4 - 10' On/End/Spaced	2x32 - 10' On/End/Spaced
2x32 HD	33"	2x4 - 10' On/End/Spaced	2x32 - 10' On/End/Spaced



 DELIVERING WHAT MATTERS™	
Dealer	Project
Lumber One	25-10717
Layout Name	
25-10717 1460 SE Broadway Dr	
Shipping	
Created	Plotted
September 30, 2025	September 30, 2025
Revised	
September 30, 2025	
Designer	
Whitney Guest	