

MO. LIC E 22017 PROFESSIONAL SEAL APPLIES TO STRUCTURAL ELEMENTS ONLY

05/27/2021

AS NOTED ON PLANS REVIEW

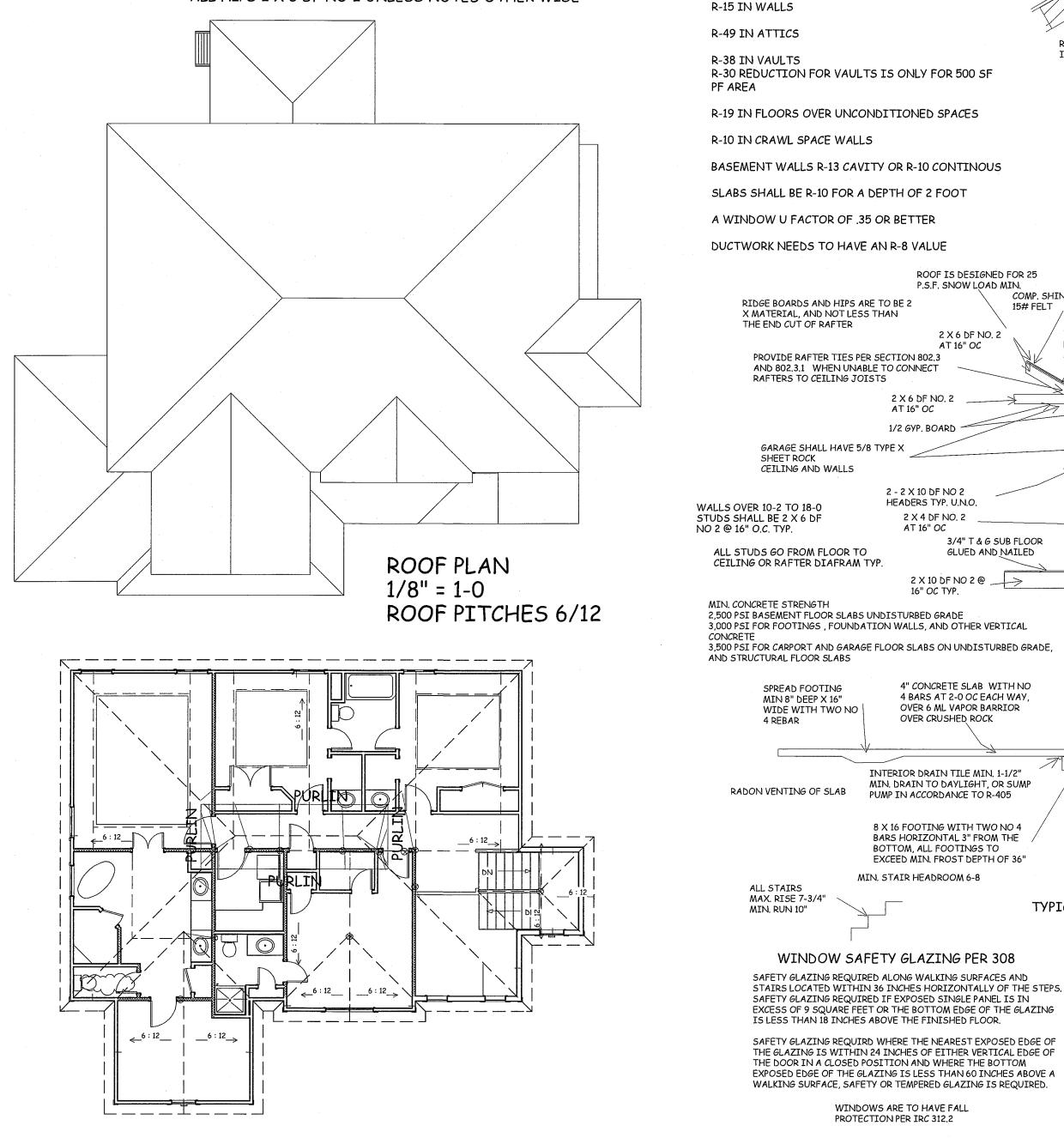
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

ALL RAFTERS 2 X 6 DF NO 2 @ 16" O.C UNLESS NOTED OTHERWISE

ENERGY CONSERVATION CODE

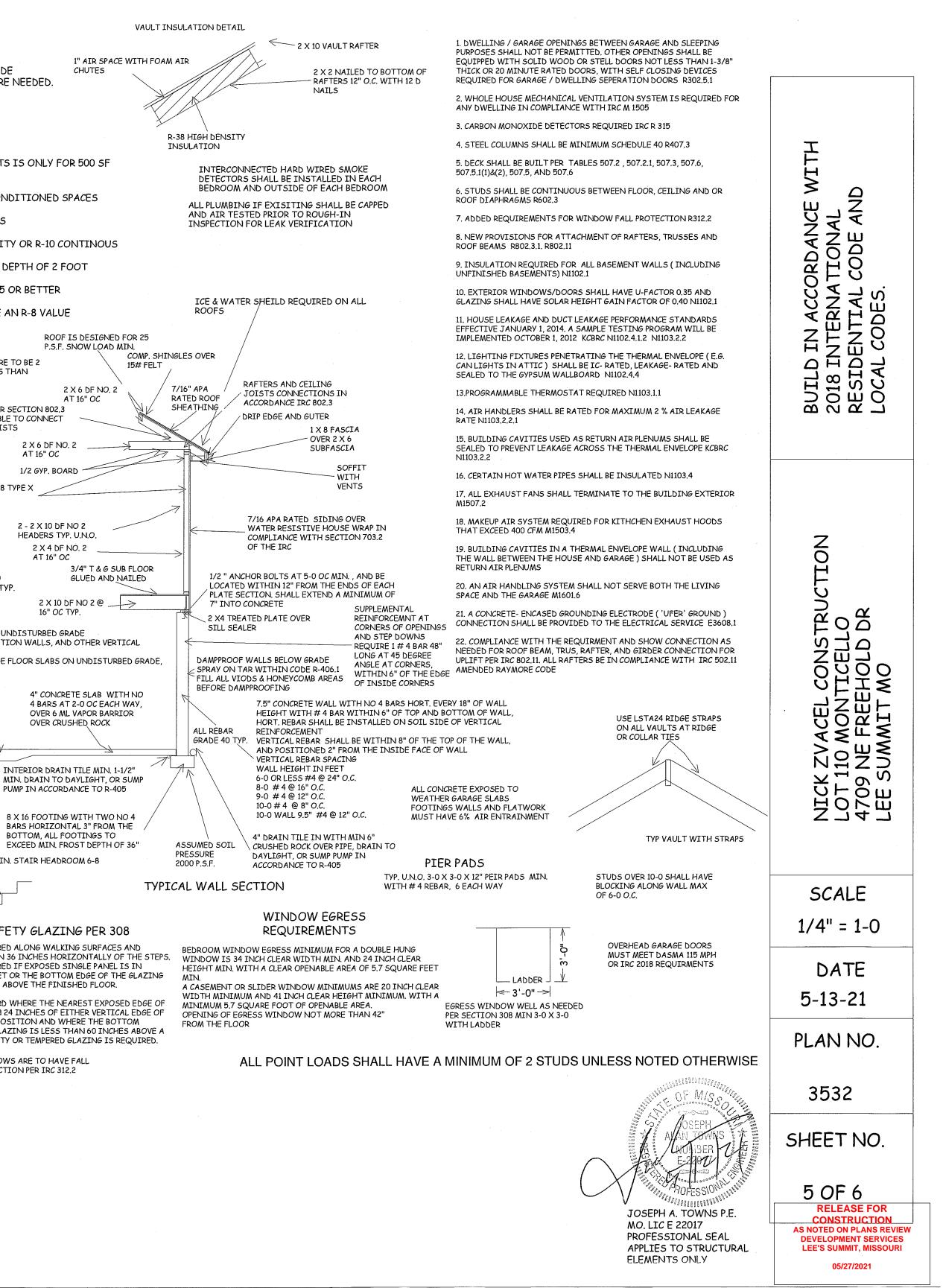
THE FOLLOWING VALUES ARE NEEDED

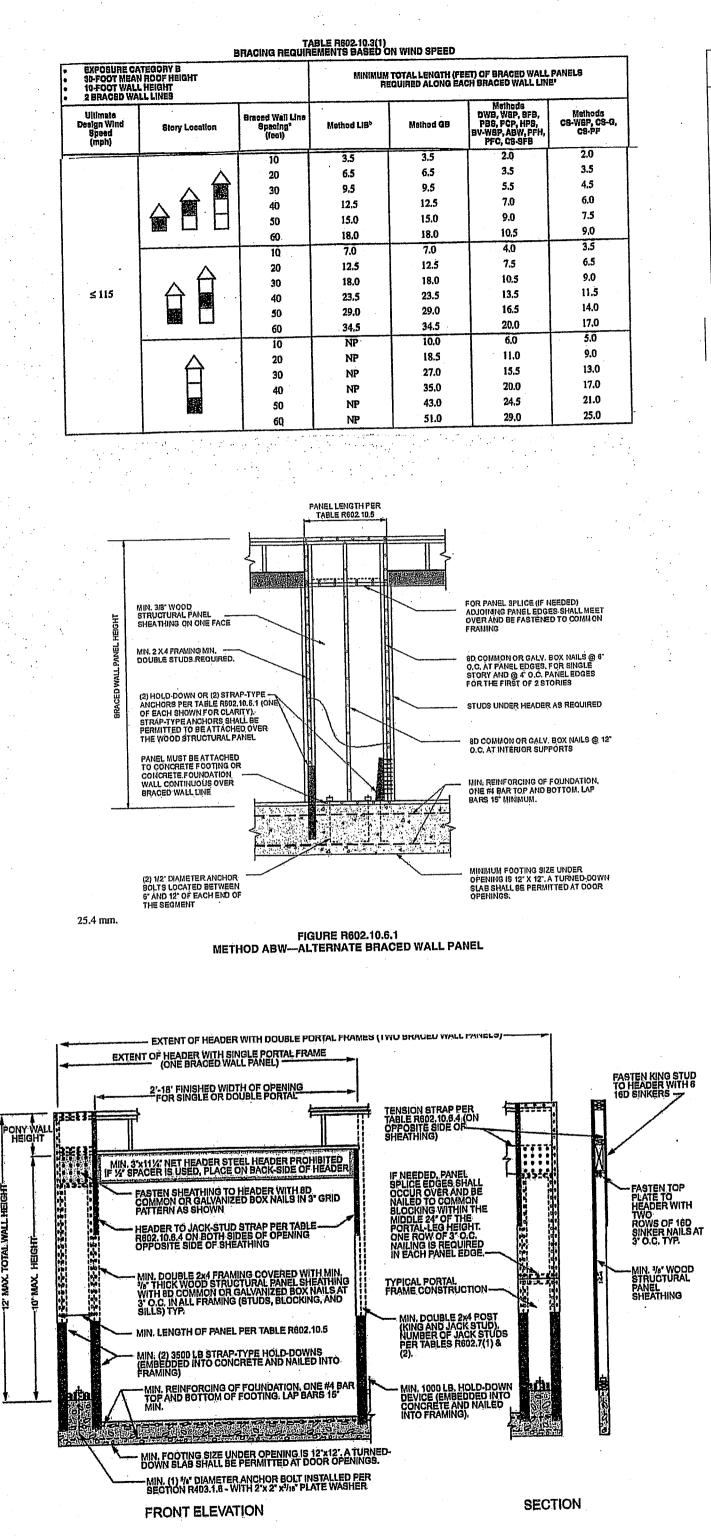
ALL HIPS 2 X 8 DF NO 2 UNLESS NOTED OTHER WISE



PURLIN PLAN SECOND FLOOR 1/8 = 1-0

NO PURLINS NEEED ON FIRST FLOOR





4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.2 METHOD PFH-PORTAL FRAME WITH HOLD-DOWNS

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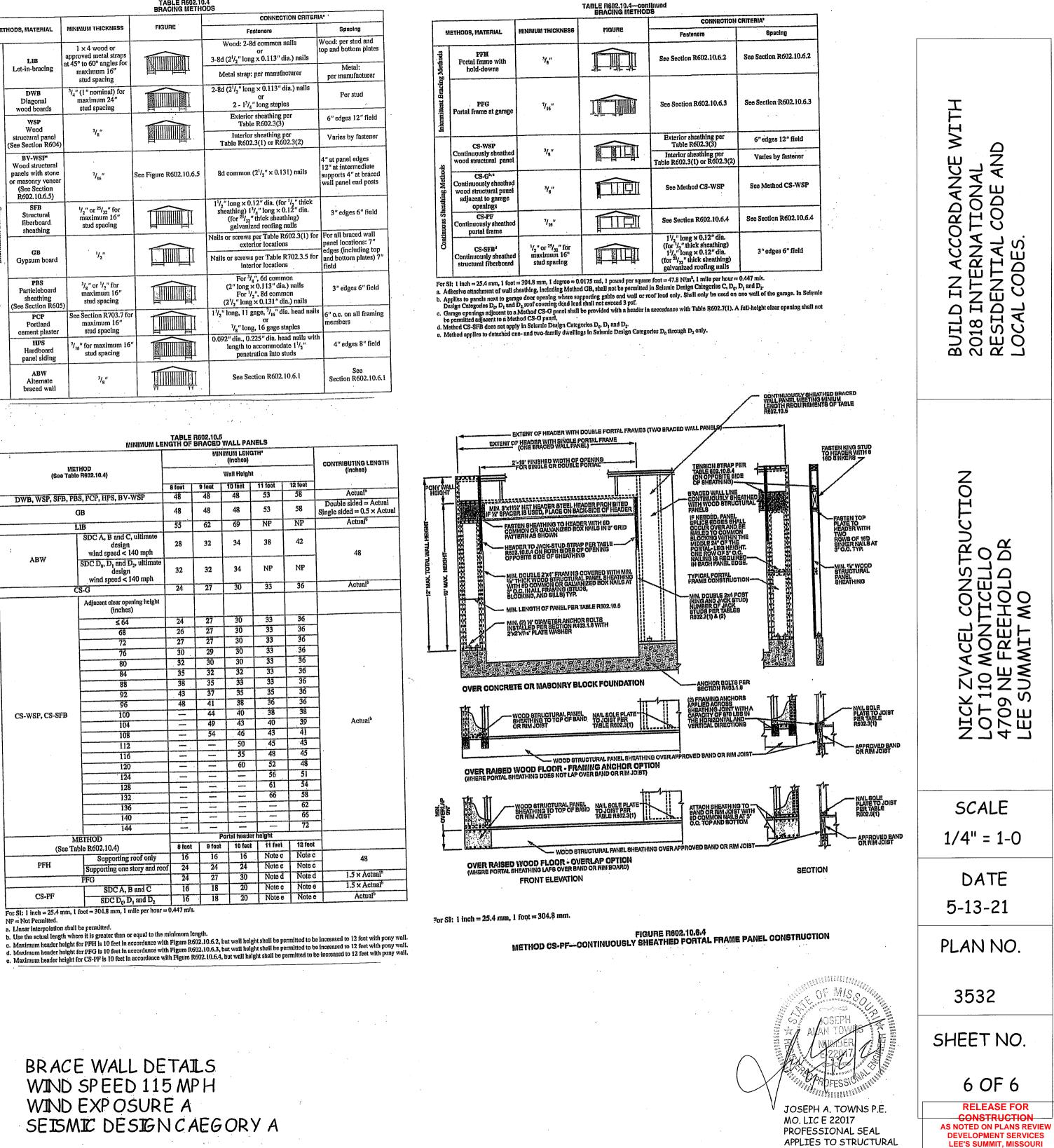
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			TABLE R602.10.4 BRACING METHODS					
Г					CONNECTION CRITE			
	METHODS, MATERIAL		MINIMUM THICKNESS	FIGURE	Fasteners			
		LIB Let-in-bracing	1 × 4 wood or approved metal straps at 45° to 60° angles for maximum 16" stud spacing		Wood: 2-8d common nails or 3-8d (2 ¹ / ₂ " long x 0.113" dia.) nails Metal strap: per manufacturer			
		DWB Diagonal wood boards	3/4" (1" nominal) for maximum 24" stud spacing		2-8d (2 ¹ / ₂ " long × 0.113" dia.) nails or 2 - 1 ³ / ₄ " long staples			
		WSP Wood structural panel (See Section R604)	3/8"		Exterior sheathing per Table R602.3(3)			
				圖1111111111111111111111111111111111111	Interior sheathing per Table R602.3(1) or R602.3(2)			
	ethods	BV-WSP* Wood structural panels with stone or masonry veneer (See Section R602, 10.6.5)	7/ ₁₆ ″	See Figure R602.10.6.5	8d common $(2^{1}/_{2}'' \times 0.131)$ nails			
	Intermittent Bracing Methods	SFB Structural fiberboard sheathing	¹ / ₂ " or ²⁵ / ₃₂ " for maximum 16" stud spacing		$1^{1}/_{2}^{"}$ long x 0.12" dia. (for $1^{1}/_{2}^{"}$ thick sheathing) $1^{3}/_{4}^{"}$ long x 0.12" dia. (for $2^{2}/_{32}^{"}$ thick sheathing) galvanized roofing nails			
	Intermitten	GB Gypsum board	'/ ₂ "		Nails or screws per Table R602.3(1) f exterior locations Nails or screws per Table R702.3.5 f interior locations			
		PBS Particleboard sheathing (See Section R605)	³ / ₈ " or ¹ / ₂ " for maximum 16" stud spacing		For ³ / ₈ ", 6d common (2" long × 0.113" dia.) nails For ¹ / ₂ ", 8d common (2'/ ₂ " long × 0.131" dia.) nails			
		PCP Portland cement plaster	See Section R703.7 for maximum 16" stud spacing		$1^{1}/_{2}^{"}$ long, 11 gage, $7'_{16}^{"}$ dia. head na or $7'_{8}^{"}$ long, 16 gage staples			
		HPS Hardboard panel siding	7/ ₁₆ " for maximum 16 stud spacing		0.092" dia., 0.225" dia. head nails w length to accommodate 1 1/2" penetration into studs			
		ABW Alternate braced wall	³ / ₈ "		See Section R602.10.6.1			
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TABLE R602,10.5 MINIMUM LENGTH OF BRACED WALL PANELS

	MINIMOM LEI	Nain OP	BUWCED	17 Palman (* PAL	11.00		
3		MINIMUM LENGTH" (Inchea)					
MET (See Table	Wall Height						
	-	8 feet	9 feet	10 feet	11 feet	12 feet	
DWB WSP. SEB. PB	S, PCP, HPS, BV-WSP	48	48	48	53	58	
	JB	48	48	48	53	58	
I	55	62	69	NP	NP		
;	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42	
ABW	SDC D ₀ , D ₁ and D ₂ , ultimate design wind speed < 140 mph	32	32	34	NP	NP	
C	5-G	24	27	30	33	36	
<u></u>	Adjacent clear opening height (inches)						
	≤ 64	24	27	30	33	36	
	68	26	27	30	33	36	
	72	27	27	30	33	36	
	76	30	29	30	33	-36	
	80	32	30	30	33	36	
	84	35	32	32	33	36	
	88	38	35	33	33	36	
	92	43	37	35	35	36	
	96	48	41	38	36	36	
CS-WSP, CS-SFB	100		44	40	- 38	38	
	104		49	43	40	39	
	108	-	54	46	43	41	
	112		-	50	45	43	
	116			55	48	45	
	120	- 1		60	52	48	
	124				56	51	
	128				61	54	
	132				66	58	
	136					62	
	140			-	-	66	
	144				—	72	
M	-	Portal header height					
(See Tal	8 feet	9 feet	10 feet	11 feel	12 fee		
	Supporting roof only	16	16	16	Note c	Note	
PFH	Supporting one story and roc		24	24	Note c	Note	
······································	PFG	24	27	30	Note d	Note	
	SDC A, B and C	16	18	20	Note e	Note	
CS-PF	SDC D ₀ , D ₁ and D ₂	16	18	20	Note e	Note	
	and the second se	- 0.447 m/s					

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s. NP = Not Permitted.

BRACE WALL DETAILS WIND SPEED 115 MPH WIND EXPOSURE A SEISMIC DESIGN CAEGORY A



05/27/2021

ELEMENTS ONLY