			BRACED WALL LINE SPACING CRITERIA					
APPLICATION	CONDITION	BUILDING TYPE	Maximum Spacing	Exception to Maximum Spacing				
Wind bracing	Ultimate design wind speed 100 mph to < 140 mph	Detached, townhouse	60 feet	None				
Seismic bracing	SDC A – C	Detached	Use wind bracing					
	SDC A – B	Townhouse		Use wind bracing				

TABLE R602.10.1.3 BRACED WALL LINE SPACING

For SI: 1 foot = 304.8 mm, 1 square foot = 0.0929 m², 1 mile per hour = 0.447 m/s.

TABLE R602.10.3(1) BRACING REQUIREMENTS BASED ON WIND SPEED

			acing ty Method LIB ^b Method GB PBS, PCP, HPS, BV-WSP, ABW, PFH, PFC, CS-SFB ^c CS-WSP CS- CS-WSP 3.5 3.5 2.0 2. 6.5 6.5 3.5 3. 9.5 9.5 5.5 4. 12.5 12.5 7.0 6. 15.0 15.0 9.0 7. 18.0 18.0 10.5 9. 7.0 7.0 4.0 3. 12.5 12.5 7.5 6. 18.0 18.0 10.5 9. 23.5 23.5 13.5 11 29.0 29.0 16.5 14 34.5 34.5 20.0 17 NP 10.0 6.0 5. NP 18.5 11.0 9. NP 27.0 15.5 13			
Ultimate Design Wind Speed (mph)	Story Location	Braced Wall Line Spacing (feet)	Method LIB ^b	Method GB	DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP, ABW, PFH,	Methods CS-WSP, CS-G, CS-PF
		10	3.5	3.5	2.0	2.0
	\triangle	20	6.5	6.5	3.5	3.5
	$\land \square$	30	9.5	9.5	5.5	4.5
		40	40 12.5 12.5		7.0	6.0
		50	15.0	15.0	9.0	7.5
		60	18.0	18.0	10.5	9.0
	\wedge	10	7.0	7.0	4.0	3.5
		20	12.5	12.5	7.5	6.5
< 115	$\wedge \Pi$	30	18.0	18.0	10.5	9.0
5115		40	23.5	23.5	Methods DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP, ABW, PFH, PFC, CS-SFB° Methods CS-WSP, CS-G 2.0 2.0 3.5 3.5 5.5 4.5 7.0 6.0 9.0 7.5 10.5 9.0 4.0 3.5 7.5 6.5 10.5 9.0 4.0 3.5 7.5 6.5 10.5 9.0 13.5 11.5 16.5 14.0 20.0 17.0 6.0 5.0 11.0 9.0	11.5
≤ 115		50	29.0	29.0	16.5	14.0
		60	34.5	34.5	20.0	17.0
		10	NP	10.0	6.0	5.0
	\wedge	20	NP	18.5	11.0	9.0
		30	NP	27.0	15.5	13.0
		40	NP	35.0	20.0	17.0
		50	NP	43.0	24.5	21.0
		60	NP	51.0	29.0	25.0

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	TABLE R602.10.3(2)
WIN	ID ADJUSTMENT FACTORS TO THE REQUIRED LENGTH OF WALL BRACING

		TENT FACTORS TO T		-	
ITEM NUMBER	ADJUSTMENT BASED ON	STORY/SUPPORTING	CONDITION	ADJUSTMENT FACTOR ^{a,b} [multiply length from Table R602.10.3(1) by this factor]	APPLICABLE METHODS
		One-story structure	В	1.00	
1	Exposure category	Two-story structure	В	1.00	
		Three-story structure	В	1.00	
	+ +		≤ 5 feet	0.70	
		1	10 feet	1.00	
		Roof only	15 feet	1.30	
	_	I	20 feet	1.60	
	1		≤ 5 feet	0.85	1
°1	Roof eave-to-ridge	Roof + 1 floor	10 feet	1.00	A 11 ath ada
2	height	KOOI + 1 11001	15 feet	1.15	All methods
		I	20 feet	1.30	
	l I		≤ 5 feet	0.90	1
		Roof + 2 floors	10 feet	1.00	
		ROOI + 2 moors	15 feet	1.10	
		1	20 feet	Not permitted	
			8 feet	0.90	1
	NY7.11 1	1	9 feet	0.95	
3	Wall height adjustment	Any story	10 feet	1.00	
		I	11 feet	1.05	
		I	12 feet	1.10	
		1	2	1.00]
4	Number of braced wall lines (per plan	Any story	3	1.30	
NUC-1	direction) ^c		4	1.45	
		 	≥5	1.60	
5	Additional 800-pound hold-down device	Top story only	Fastened to the end studs of each braced wall panel and to the foundation or framing below	0.80	DWB, WSP, SFB, PBS, PCP, HPS
6	Interior gypsum board finish (or equivalent)	Any story	Omitted from inside face of braced wall panels	1.40	DWB, WSP, SFB, PBS, PCP, HPS, CS- WSP, CS-G, CS-SFB
7	Gypsum board fastening	Any story	4 inches o.c. at panel edges, including top and bottom plates, and all horizontal joints blocked	0.7	GB

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound = 4.48 N.

a. Linear interpolation shall be permitted.

b. The total adjustment factor is the product of all applicable adjustment factors.

c. The adjustment factor is permitted to be 1.0 when determining bracing amounts for intermediate braced wall lines provided the bracing amounts on adjacent braced wall lines are based on a spacing and number that neglects the intermediate braced wall line.

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TABLE R602.10.4 BRACING METHODS

			FIGURE	CONNECTION CRITERIA ^a				
ME	THODS, MATERIAL	MINIMUM THICKNESS	FIGURE	Fasteners	Spacing			
	LIB Let-in-bracing	1×4 wood or approved metal straps at 45° to 60° angles for		Wood: 2-8d common nails or $3-8d (2^{1}/_{2}" \log x \ 0.113" \text{ dia.})$ nails	Wood: per stud and top and bottom plates			
	Let-m-bracing	maximum 16" stud spacing		Metal strap: per manufacturer	Metal: per manufacturer			
	DWB Diagonal wood boards	³ / ₄ "(1" nominal) for maximum 24" stud spacing		2-8d $(2^{1}/_{2}" \log \times 0.113" \text{ dia.})$ nails or 2 - $1^{3}/_{4}" \text{ long staples}$	Per stud			
	WSP Wood 3/8"		Exterior sheathing per Table R602.3(3)	6" edges 12" field				
	structural panel (See Section R604)	18		Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener			
lethod	BV-WSP ^e 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	4" at panel edges 12" at intermediate supports 4" at braced wall panel end posts			
Intermittent Bracing Method	SFB Structural fiberboard sheathing	al ne $7/_{16}$ " See Figure R602.10 $\frac{1}{2}$ " or $25/_{32}$ " for maximum 16" stud spacing d $1/_2$ " $1/_2$ "		$ \begin{array}{c} 1^{1/_{2}"}\log \times 0.12" \text{ dia. (for } ^{1/_{2}"} \text{ thick} \\ \text{sheathing) } 1^{3/_{4}"}\log \times 0.12" \text{ dia.} \\ (\text{for } ^{25/_{32}"} \text{ thick sheathing)} \\ \text{galvanized roofing nails or 8d common} \\ (2^{1/_{2}"}\log \times 0.131" \text{ dia.) nails} \end{array} $	3" edges 6" field			
Intermit	GB	1/ "		Nails or screws per Table R602.3(1) for exterior locations	For all braced wall panel locations: 7"			
	Gypsum board	12		Nails or screws per Table R702.3.5 for interior locations	edges (including top and bottom plates) 7" field			
	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 ¹ / ₂ " long × 0.131" dia.) nails	3" edges 6" field			
	PCP Portland cement plaster	Wood tural panel ection R604) ${}^{3}/{_{8}}"$ $\overbrace{I_{-1}}$ V-WSP d structural is with stone onry veneer e Section 2.10.6.5) $7/{_{16}}"$ See Figure R602.10.6.5 SFB ructural erboard eathing $1/{_{2}}"$ or $25/{_{32}}"$ for maximum 16" stud spacing $\overbrace{I_{-1}}$ GB sum board $1/{_{2}}"$ or $1/{_{2}}"$ for maximum 16" stud spacing $\overbrace{I_{-1}}$ PBS icleboard eathing ection R605) $3/{_{8}}"$ or $1/{_{2}}"$ for maximum 16" stud spacing $\overbrace{I_{-1}}$ PCP ortland ent plasterSee Section R703.6 for maximum 16" stud spacing $\overbrace{I_{-1}}$ HPS rdboard el siding $7/{_{16}"}$ for maximum 16" stud spacing $\overbrace{I_{-1}}$ HPS rdboard el siding $7/{_{16}"}$ for maximum 16" stud spacing $\overbrace{I_{-1}}$ ABW Iternate $3/{_{8}"}$ $3/{_{8}"}$		$1^{1/2}$ " long, 11 gage, $7/_{16}$ " dia. head nails or $7/_{8}$ " long, 16 gage staples	6" o.c. on all framing members			
	HPS Hardboard panel siding			0.092" dia., $0.225"$ dia. head nails with length to accommodate $1^{1/2"}$ penetration into studs	4" edges 8" field			
	ABW Alternate braced wall	³ / ₈ "		See Section R602.10.6.1	See Section R602.10.6.1			

(continued)

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.			50005	CONNECTION CRITERIA ^a				
N	IETHODS, MATERIAL	MINIMUM THICKNESS	FIGURE	Fasteners	Spacing			
g Methods	PFH Portal frame with hold-downs	³ / ₈ "		See Section R602.10.6.2	See Section R602.10.6.2			
Intermittent Bracing Methods	PFG Portal frame at garage	⁷ / ₁₆ "		See Section R602.10.6.3	See Section R602.10.6.3			
	CS-WSP		Exterior sheathing per Table R602.3(3)	6" edges 12" field				
	wood structural panel	ntinuously sheathed bod structural panel	Interior sheathing per Table R602.3(1) or R602.3(2)	Varies by fastener				
Continuous Sheathing Methods	CS-G ^{b,e} Continuously sheathed wood structural panel adjacent to garage openings	³ / ₈ "		See Method CS-WSP	See Method CS-WSP			
lous Shea	CS-PF Continuously sheathed portal frame	⁷ / ₁₆ "		See Section R602.10.6.4	See Section R602.10.6.4			
Continu	CS-WSP Continuously sheathed wood structural panel $3/8"$ Image: CS-Gb * 0 Ta CS-Gb * 0 Continuously sheathed wood structural panel adjacent to garage openings $3/8"$ Image: CS-Gb * 0 Ta CS-Gb * 0 Continuously sheathed wood structural panel adjacent to garage openings $3/8"$ Image: CS-Gb * 0 Ta CS-FF Continuously sheathed portal frame $3/8"$ Image: CS-SFB * Ta Image: CS-SFB * Ta CS-SFB * Continuously sheathed structural fiberboard $1/2"$ or $25/32"$ for maximum 16" stud spacing Image: CS-SFB * Stud spacing Image: CS-SFB * Stud spacing Image: CS-SFB * Stud spacing	$\begin{array}{c} 1^{1}/_{2}"\log \times 0.12" \text{ dia.} \\ (\text{for}^{-1}/_{2}" \text{ thick sheathing}) \\ 1^{3}/_{4}"\log \times 0.12" \text{ dia.} \\ (\text{for}^{-25}/_{32}" \text{ thick sheathing}) \\ \text{galvanized roofing nails or} \\ 8d \text{ common} \\ (2^{1}/_{2}"\log \times 0.131" \text{ dia.}) \text{ nails} \end{array}$	3" edges 6" field					

TABLE R602.10.4—continued BRACING METHODS

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 degree = 0.0175 rad, 1 pound per square foot = 47.8 N/m^2 , 1 mile per hour = 0.447 m/s.

a. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic Design Categories C, D₀, D₁ and D₂.

b. Applies to panels next to garage door opening where supporting gable end wall or roof load only. Shall only be used on one wall of the garage. In Seismic Design Categories D₀, D₁ and D₂, roof covering dead load shall not exceed 3 psf.

c. Garage openings adjacent to a Method CS-G panel shall be provided with a header in accordance with Table R502.5(1). A full-height clear opening shall not be permitted adjacent to a Method CS-G panel.

d. Method CS-SFB does not apply in Seismic Design Categories D_0 , D_1 and D_2 .

e. Method applies to detached one- and two-family dwellings in Seismic Design Categories D₀ through D₂ only.



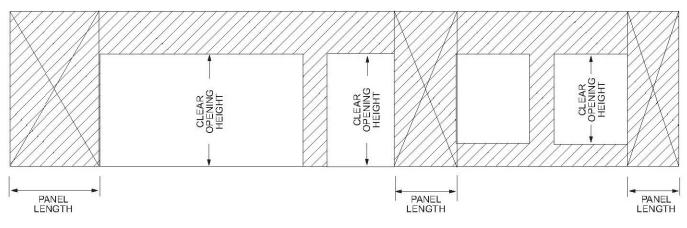


FIGURE R602.10.5 BRACED WALL PANELS WITH CONTINUOUS SHEATHING

TABLE R602.10.5.2 PARTIAL CREDIT FOR BRACED WALL PANELS LESS THAN 48 INCHES IN ACTUAL LENGTH

ACTUAL LENGTH OF BRACED WALL PANEL	CONTRIBUTING LENGTH OF BRACED WALL PANEL (inches) ^a						
(inches)	8-foot Wall Height	9-foot Wall Height					
48	48	48					
42	36	36					
36	27	N/A					

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

N/A = Not Applicable. a. Linear interpolation shall be permitted.

TABLE R602.10.5 MINIMUM LENGTH OF BRACED WALL PANELS

		MIN	IMUM LEN (inches)						
	METHOD able R602.10.4)			Wall Heigh	t		(inches)		
		8 feet	9 feet	10 feet	11 feet	12 feet			
DWB, WSP, SFB,	PBS, PCP, HPS, BV-WSP	48	48	48	53	58	Actual ^b		
GB		48	48	48	53	58	Double sided = Actual Single sided = $0.5 \times$ Actual		
	LIB	55	62	69	NP	NP	Actual ^b		
ABW	SDC A, B and C, ultimate design wind speed < 140 mph	28	32	34	38	42	48		
ADW	SDC D_0 , D_1 and D_2 , ultimate design wind speed < 140 mph	32	32	34	NP	NP	40		
PFH	Supporting roof only	16	16	16	18°	20°	48		
Supporting one story and roof		24	24	24	27°	29°	48		
PFG	-	24	27	30	33 ^d	36 ^d	$1.5 \times Actual^{b}$		
CS-G		24	27	30	33	36	Actual ^b		
CS-PF	SDC A, B and C	16	18	20	22 ^e	24 ^e	$1.5 \times Actual^{b}$		
C3-PF	SDC D ₀ , D ₁ and D ₂	16	18	20	22 ^e	24 ^e	Actual ^b		
	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	Actual ^b		
	108		54	46	43	41			
	112			50	45	43			
	116	_		55	48	45			
	120	_		60	52	48			
	124			—	56	51			
	128			—	61	54			
	132			—	66	58			
	136	—	—	—		62			
	140		—	—		66			
	144		—			72			

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s.

NP = Not Permitted.

a. Linear interpolation shall be permitted.

b. Use the actual length where it is greater than or equal to the minimum length.

c. Maximum header height for PFH is 10 feet in accordance with Figure R602.10.6.2, but wall height shall be permitted to be increased to 12 feet with pony wall.

d. Maximum opening height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height shall be permitted to be increased to 12 feet with pony wall.

e. Maximum opening height for CS-PF is 10 feet in accordance with Figure R602.10.6.4, but wall height shall be permitted to be increased to 12 feet with pony wall.

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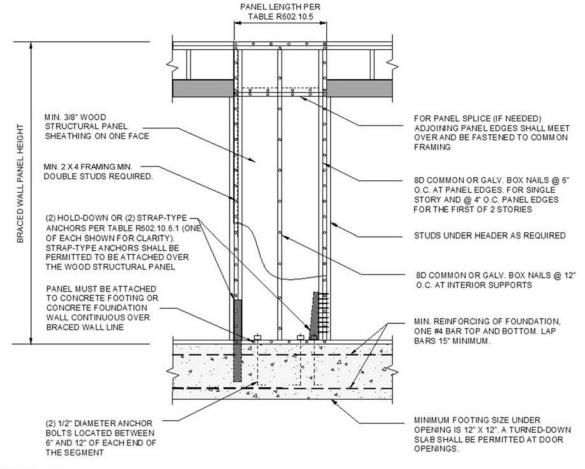
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MINIMUM HOLD-D	OWN FORCES FOR METHOD	ABW BRACED WALL PANELS
		HOLD-DOWN FORCE (pounds)
ESIGN CATEGORY AND WIND SPEED	SUPPORTING/STORY	

TABLE R602.10.6.1
MINIMUM HOLD-DOWN FORCES FOR METHOD ABW BRACED WALL PANELS

SEISMIC DE Height of Braced Wall Panel 8 feet 9 feet 10 feet 11 feet 12 feet 1,800 2,200 1,800 1,800 2,000 One story SDCA, B and C Ultimate design wind speed < 140 mph First of two stories 3,000 3,000 3,000 3,300 3,600 One story 1,800 1,800 1,800 NP NP SDC D₀, D₁ and D₂ Ultimate design wind speed <140 mph First of two stories 3,000 3.000 3.000 NP NP

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound = 4.45 N, 1 mile per hour = 0.447 m/s. NP = Not Permitted.



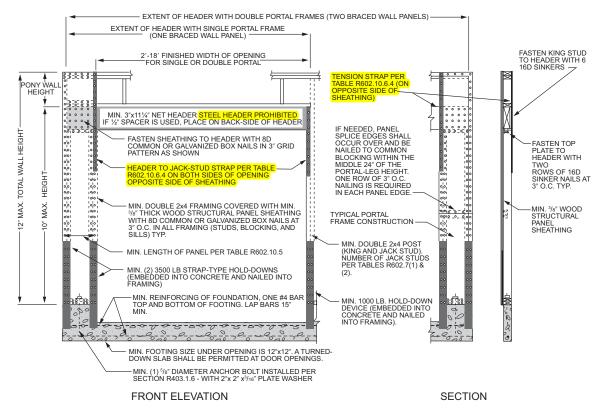
For SI: 1 inch = 25.4 mm.

FIGURE R602.10.6.1 METHOD ABW-ALTERNATE BRACED WALL PANEL

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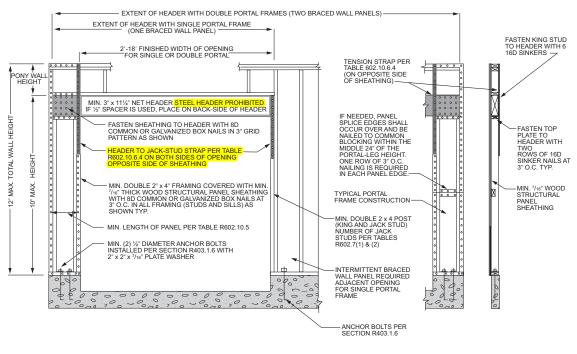
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WALL CONSTRUCTION



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

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



FRONT ELEVATION

SECTION

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.3 METHOD PFG—PORTAL FRAME AT GARAGE DOOR OPENINGS IN SEISMIC DESIGN CATEGORIES A, B AND C



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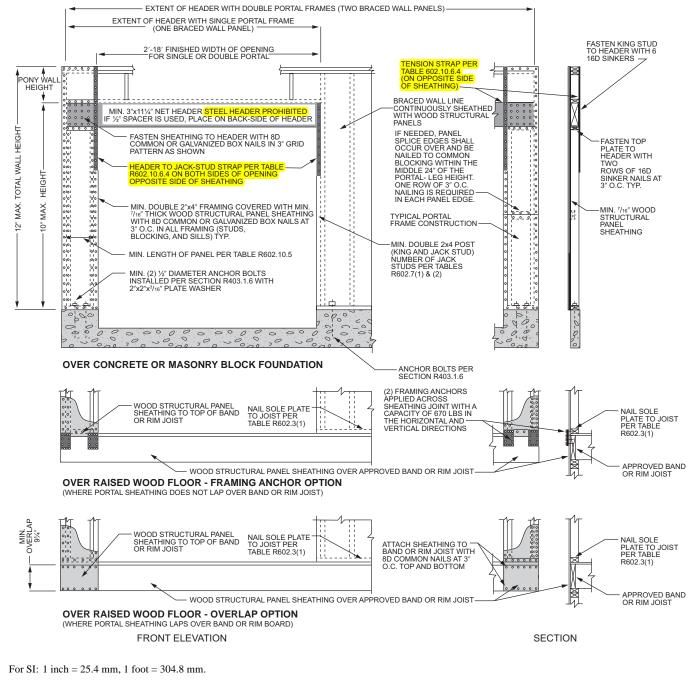


FIGURE R602.10.6.4 METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

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TENSION STRAP CAPACITY REQUIRED (pounds)^{a, b} MAXIMUM OPENING MAXIMUM MINIMUM WALL STUD MAXIMUM PONY TOTAL WALL Ultimate Design Wind Speed Vult (mph) FRAMING NOMINAL SIZE AND WALL HEIGHT WIDTH HEIGHT GRADE (feet) 110 130 110 130 115 115 (feet) (feet) Exposure B Exposure C 0 1,050 10 18 1,000 1,000 1,000 1,000 1,000 9 1,000 1.000 1,000 1,000 1,000 1,750 1 10 16 1,000 1,025 2,050 2,075 2,500 3,950 1,000 2,375 2.400 DR 18 1,275 2.850 9 1,000 1,000 1,475 1,500 1,875 3,125 2 10 16 1,775 2,175 3,525 3,550 4,125 DR 2×4 No. 2 Grade 2,075 3,950 18 2,500 3,975 DR DR 9 1,150 1,500 2,650 2,675 3,175 DR 2 12 16 2,875 3,375 DR DR DR DR 18 3.425 3,975 DR DR DR DR 9 2,275 2,750 DR DR DR DR 4 12 12 3,225 3,775 DR DR DR DR 9 1.000 1.000 1.700 1.700 2.025 3.050 2 12 1,825 2,150 3,225 3,225 3,675 DR 16 18 2,200 2,550 3,725 3,750 DR DR 2×6 Stud Grade 9 1,450 1,750 2,700 2,725 3,125 DR 4 12 16 2,050 2,400 DR DR DR DR 18 3,350 3,800 DR DR DR DR

TABLE R602.10.6.4 TENSION STRAP CAPACITY FOR RESISTING WIND PRESSURES PERPENDICULAR TO METHODS PFH, PFG AND CS-PF BRACED WALL PANELS

For SI: 1 inch = 25.4 mm, 1 mile per hour = 0.447 m/s.

a. DR = Design Required.

b. Straps shall be installed in accordance with manufacturer's recommendations.



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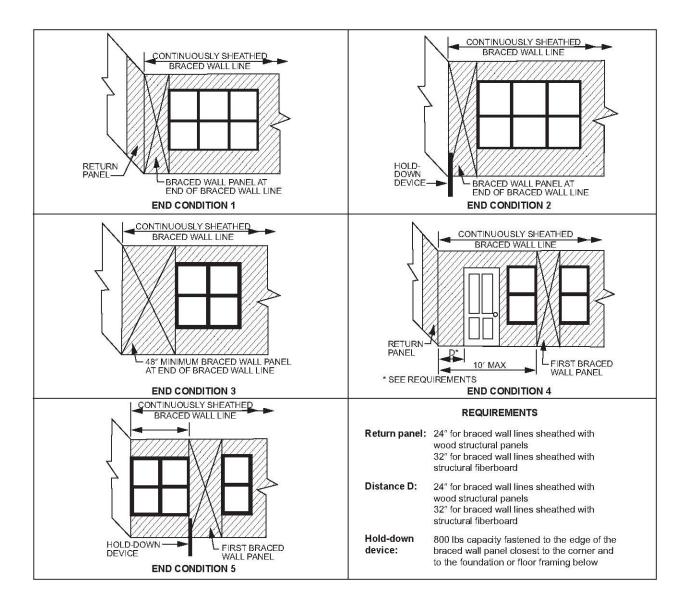
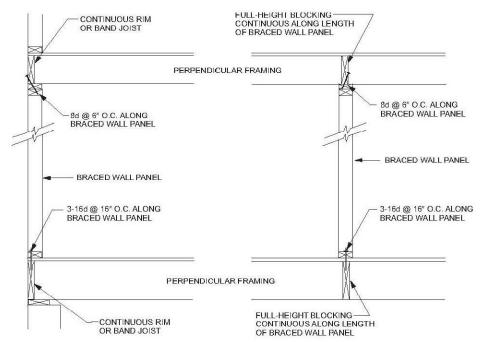
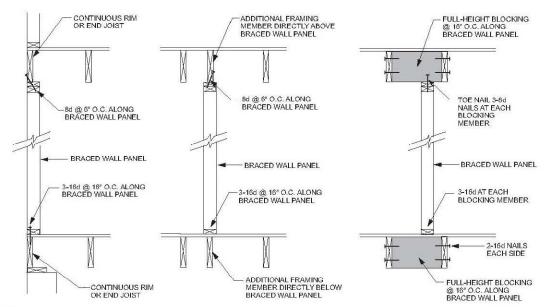


FIGURE R602.10.7



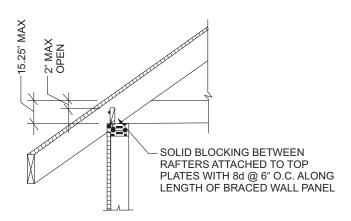
For SI: 1 inch = 25.4 mm.

FIGURE R602.10.8(1) BRACED WALL PANEL CONNECTION WHEN PERPENDICULAR TO FLOOR/CEILING FRAMING



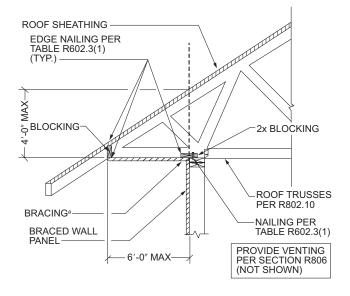
For SI: 1 inch = 25.4 mm.

FIGURE R602.10.8(2) BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING



For SI: 1 inch = 25.4 mm.

FIGURE R602.10.8.2(1) BRACED WALL PANEL CONNECTION TO PERPENDICULAR RAFTERS



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm. a. Methods of bracing shall be as described in Section R602.10.4.

FIGURE R602.10.8.2(2) BRACED WALL PANEL CONNECTION OPTION TO PERPENDICULAR RAFTERS OR ROOF TRUSSES

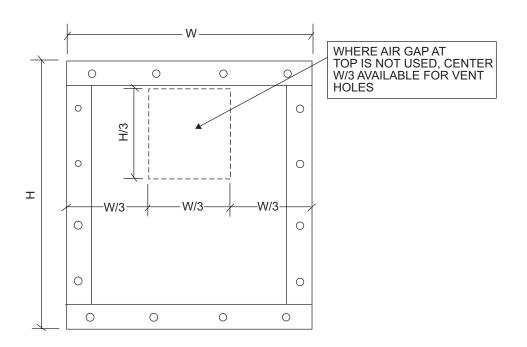
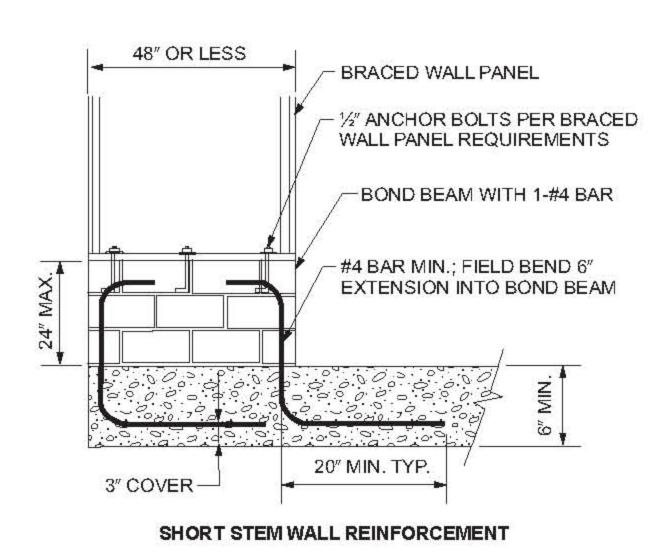
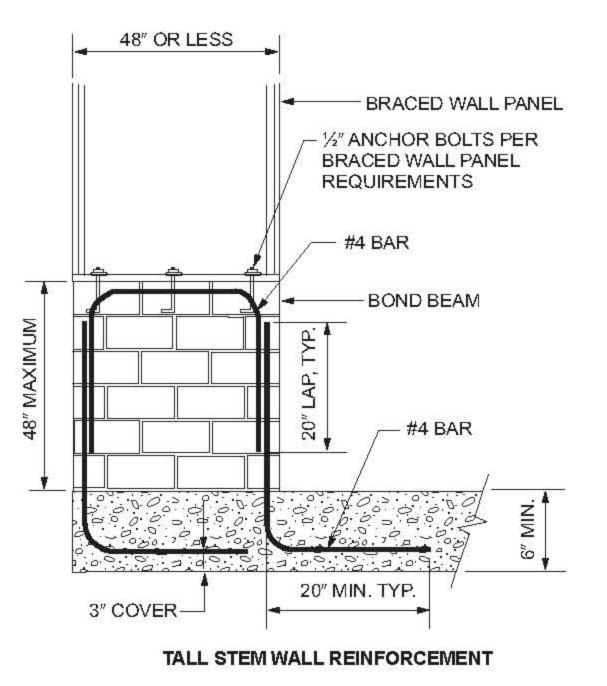


FIGURE R602.10.8.2(3) BRACED WALL PANEL CONNECTION OPTION TO PERPENDICULAR RAFTERS OR ROOF TRUSSES

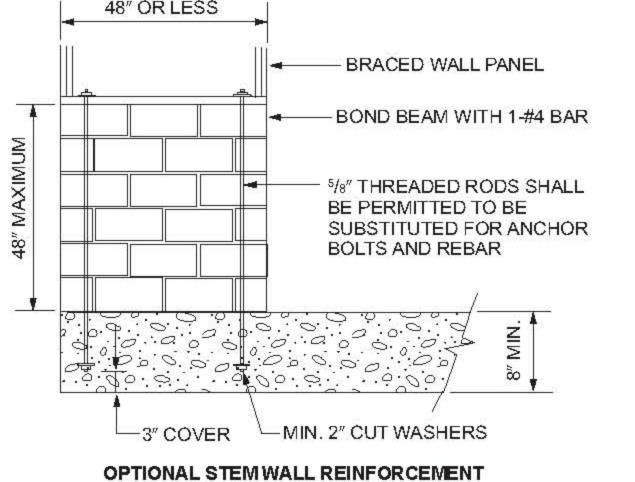
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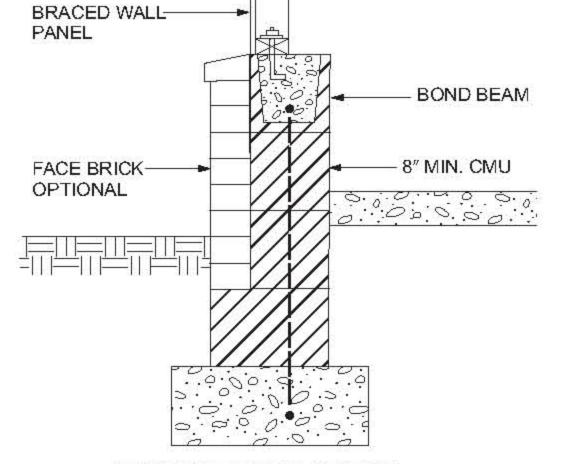
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48" OR LESS Ť





TYPICAL STEM WALL SECTION

NOTE: GROUT BOND BEAMS AND ALL CELLS THAT CONTAIN REBAR, THREADED RODS AND ANCHOR BOLTS.

FIGURE R602.10.9 MASONRY STEM WALLS SUPPORTING BRACED WALL PANELS

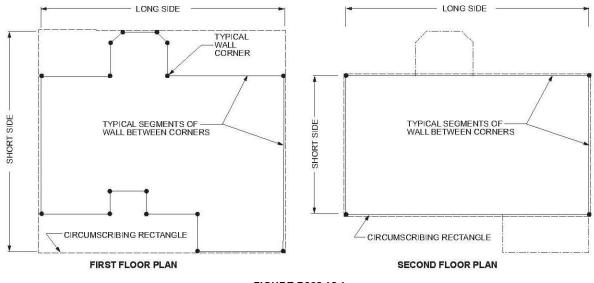


FIGURE R602.12.1 RECTANGLE CIRCUMSCRIBING AN ENCLOSED BUILDING

ULTIMATE DESIGN WIND SPEED (mph)		EAVE-TO-RIDGE		MINIMUM NUMBER OF BRACING UNITS ON EACH LONG SIDE ^{a, b, d}						MINIMUM NUMBER OF BRACING UNITS ON EACH SHORT SIDE ^{a, b, d}					
	STORY LEVEL	HEIGHT		Lengt	h of she	ort side	(feet)°			Lengt	th of lo	ng side	(feet)°		
		(feet)	10	20	30	40	50	60	10	20	30	40	50	60	
			1	2	2	2	3	3	1	2	2	2	3	3	
		10	2	3	3	4	5	6	2	3	3	4	5	6	
115			2	3	4	6	7	8	2	3	4	6	7	8	
			1	2	3	3	4	4	1	2	3	3	4	4	
		15	2	3	4	5	б	7	2	3	4	5	б	7	
			2	4	5	6	7	9	2	4	5	6	7	9	

TABLE R602.12.4 MINIMUM NUMBER OF BRACING UNITS ON EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

a. Interpolation shall not be permitted.

b. Cripple walls or wood-framed basement walls in a walk-out condition shall be designated as the first story and the stories above shall be redesignated as the second and third stories, respectively, and shall be prohibited in a three-story structure.

c. Actual lengths of the sides of the circumscribed rectangle shall be rounded to the next highest unit of 10 when using this table.

d. For Exposure Category C, multiply bracing units by a factor of 1.20 for a one-story building, 1.30 for a two-story building and 1.40 for a three-story building.