

2018 IRC CODES: TABLE R602.10.3(1)
BRACING REQUIRED BASED ON WIND SPEED

≤115 MPH	Minimum total length of braced wall panels required along each braced wall line (ft) ^a				
	BWL SPACING	LIB not permitted in prescott	GB	DWB, WSP, SFB, PBS, PCP, HPS, BV-WSP, ABW, PFH, PFC, CS-SFB	CS-WSP, CS-G, CS-PF
	10		3.5	2.0	2.0
	20		6.5	3.5	3.5
	30		9.5	5.5	4.5
	40		12.5	7.0	6.0
	50		15.0	9.0	7.5
	60		18.0	10.5	9.0
	10		7.0	4.0	3.5
	20		12.5	7.5	6.5
	30		18.0	10.5	9.0
	40		23.5	13.5	11.5
	50		29.0	16.5	14.0
	60		34.5	20.0	17.0
	10		10.0	6.0	5.0
	20		18.5	11.0	9.0
	30		27.0	15.5	13.0
	40		35.0	20.0	17.0
	50		43.0	24.5	21.0
	60		51.0	29.0	25.0

TABLE R602.10.3(2) WIND ADJUSTMENT FACTORS

Adjustment	Story/Supporting	Cond.	Factor ^{a,b}
Exposure Category	One-story structure	B	1.00
		C	1.20
		D	1.50
	Two-story structure	B	1.00
		C	1.30
		D	1.60
	Three-story structure	B	1.00
		C	1.40
D		1.70	
Roof Eave-to-Ridge Height Adjustment	Roof only	≤5 ft	0.70
		10 ft	1.00
		15 ft	1.30
		20 ft	1.60
	Roof + 1 floor	≤5 ft	0.85
		10 ft	1.00
		15 ft	1.15
		20 ft	1.30
		25 ft	1.40
		30 ft	1.50
	Roof + 2 floors	≤5 ft	0.90
		10 ft	1.00
15 ft		1.10	
20 ft		NP	
Wall Height Adjustment	Any story	8 ft	0.90
		9 ft	0.95
		10 ft	1.00
		11 ft	1.05
		12 ft	1.10

Footnotes:
a. Linear interpolation allowed

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b. Use actual provided it is ≥ min. length
c. Max header height is 10', however it may be increased to 12' with pony wall per Table R602.10.6.4

Footnotes:
a. Linear interpolation is permitted
b. Total adjustment factor is the product of all applicable adjustment factors
SEE ADDITIONAL ADJUSTMENT FACTORS IN BOOK

TABLE R602.10.5 MINIMUM LENGTH OF BRACED WALL PANELS

METHOD	MINIMUM LENGTH (in) ^a					Contributing Credit Length (in)	
	Wall Height (ft)						
	8 ft	9 ft	10 ft	11 ft	12 ft		
DWG, WSP, SFB, PBS, PCP, HPS, BV-WSP	48 in	48 in	48 in	53 in	58 in	Actual ^b	
GB	48 in	48 in	48 in	53 in	58 in	Double sided = Actual Single sided = .5 x actual	
LIB	55 in	62 in	69 in	NP	NP	Actual ^b	
ABW	28 in	32 in	34 in	38 in	42 in	48 in	
PFH	Support in roof only	16 in	16 in	16 in	18 in ^c	20 in ^c	48 in
	Supporting roof + 1 story	24 in	24 in	24 in	27 in ^c	29 in ^c	48 in
PFG	24 in	27 in	30 in	33 in ^c	36 in ^c	1.5 x actual ^b	
CS-G	24 in	27 in	30 in	33 in	36 in	Actual ^b	
CS-PF	16 in	18 in	20 in	22 in ^c	24 in ^c	Actual ^b	
CS-WSP CS-SFB	Adjacent Opening Height						
	≤ 64 in	24 in	27 in	30 in	33 in	36 in	Actual ^b
	68 in	26 in	27 in	30 in	33 in	36 in	
	72 in	27 in	27 in	30 in	33 in	36 in	
	76 in	30 in	29 in	30 in	33 in	36 in	
	80 in	32 in	30 in	30 in	33 in	36 in	
	84 in	35 in	32 in	32 in	33 in	36 in	
	88 in	38 in	35 in	33 in	33 in	36 in	
	92 in	43 in	37 in	35 in	35 in	36 in	
	96 in	48 in	41 in	38 in	36 in	36 in	
	100 in		44 in	40 in	38 in	38 in	
	104 in		49 in	43 in	40 in	39 in	
	108 in		54 in	46 in	43 in	41 in	
	112 in			50 in	45 in	43 in	
	116 in			55 in	48 in	45 in	
	120 in			60 in	52 in	48 in	
124 in				56 in	51 in		
128 in				61 in	54 in		
132 in				66 in	58 in		
136 in					62 in		
140 in					66 in		
144 in					72 in		

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

Actual Length of Braced Wall Panel (in)	Contributing Length of BWP	
	8 ft wall height	9 ft wall height
48	48	48
42	36	36
36	27	NA

Footnotes:
a. Linear interpolation is permitted

