

**Check for 2009 IRC Prescriptive Braced Wall Requirements**

Bracing Compliance Checklist

- ✓ 1. Each braced wall line contains:
  - ✓  $(4' * C_{SH}) = 4\text{ft}$  braced wall sections, unless meeting requirements of Table 1 on Page B-40-21,
  - ✓ Offset between bw sections and designated bw line  $\leq 4'$  each; total  $\leq 8'$ .
  - ✓ Braced wall sections 25'o.c. max,
  - ✓ Total end distance on any line  $\leq 12.5'$
- ✓ 2. Total braced wall length in each braced wall line ( $L_p$ )  $\geq L_r = L * C_S * C_R * C_E * C_W * C_N$  for that line; all variables can be found in Tables 2-7 and Figure 1 on B-40-21. Must be  $\geq 4'$ .
- ✓ 3. For exterior bw panels only: if the total bw length provided ( $L_p$ ) for a bw line is double that required ( $L_r$ ) in item 2, blocking shall not be required at horizontal joints in bw panels. Else, horizontal joints in bw panels shall occur over, and be fastened to, common blocking of a min 1-1/2" thickness. No horizontal blocking is required at interior bw panels with horizontal gypsum board.

Number of Stories =	2	$C_S =$	1.3 (Table 3)
Wind Load =	90 mph		
Exposure =	C (30' max. mean roof height)		
Seismic Category =	A, B, or C		
Width of Home =	26 ft		
Roof Pitch =	7 /12		
Flr Joist & Ceiling Joist Height	22 in		
Interior Sidewall Height =	8 ft		
Number of BW lines, vertical =	2	$C_{NV} =$	1.00 (Table 7)
Number of BW lines, horizontal =	2	$C_{NH} =$	1.00 (Table 7)
Roof Eave to Ridge Height =	7.583 ft	$C_E =$	0.93 (Table 5)
Exterior Horizontal Wall Height =	8.000 ft	$C_{WEH} =$	0.9 (Table 6)
Exterior Vertical Height =	8.000 ft	$C_{WEV} =$	0.9 (Table 6)
Interior Vertical Wall Height =	8.000 ft	$C_{WIV} =$	0.9 (Table 6)

$C_{SH} = (\text{Interior Sidewall Height} + \text{Flr Joist \& Ceiling Joist Height}) / 10\text{ft} , 1.0 \text{ min}$

$C_{SH} = 1.00$       Therefore, min fully effective braced wall sections = 4.00 ft