Reviewed For Code Compliance
Approved
Approved with Conditions
Date: 05/24/16

Check for 2009 IRC Prescriptive Braced Wall Requirements

Bracing Compliance Checklist

✓ 1. Each braced wall line contains:
- ✓ (4' * C_{SH}) = 4ft braced wall sections, unless meeting requirements of Table 1 on Page B-40-21,
- ✓ Offset between bw sections and designated bw line ≤ 4' each; total ≤ 8'.
- ✓ Braced wall sections 25'o.c. max,
- ✓ Total end distance on any line ≤ 12.5'

✓ 2. Total braced wall length in each braced wall line (L_p) ≥ 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 ≥ 4'.

✓ 3. For exterior bw panels only: if the total bw length provided (Lp) for a bw line is double that required (Lr) 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		
Ceiling / Truss BC Depth =	22 in		
Cathedral Truss?	NO		
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 =	0.86 (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)

For one-story home, C_{SH} = (Interior Vertical Wall Height + (Ceiling or Truss BC Depth)) / 10ft , 1.0 min

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