

Seismic with Masonry Veneer



Wall Selection and Anchorage Classification:

TWO-STORY-STACKED-ON-FOUNDATION APPLICATION

Seismic Design Category	Equivalent Wall-Bracing Length (ft)	1st-Story Wall Model (on foundation)	2nd-Story Wall Model	Base Material Under 1st-Story Wall	
				Concrete	
D ₀ -D ₂	4	SSW21x8-STK	SSW21x8	G	
		SSW21x9-STK	SSW21x8	G	
			SSW21x9	G	
		SSW21x10-STK	SSW21x8	G	
			SSW21x9	G	
		SSW21x11-STK	SSW21x8	G	
			SSW21x9	G	
		SSW24x8-STK	SSW24x8	F	
			SSW24x9	F	
		SSW24x10-STK	SSW24x8	G	
			SSW24x9	G	
			SSW24x10	G	
	SSW24x11-STK	SSW24x8	G		
		SSW24x9	G		
		SSW24x10	G		
	SSW24x12-STK	SSW24x8	G		
		SSW24x9	G		
		SSW24x10	G		
	6	SSW24x8-STK	SSW24x8	G	
		SSW24x9-STK	SSW24x8	H	
SSW24x9			H		
SSW24x10-STK	SSW24x8	H			
		SSW24x9	H		

1. See pages 46-69 for anchorage solutions.
2. For 11' and 12' 1st-story wall heights, increase wall-bracing length as required by IRC R301.3.
3. Maximum second-floor joist depth for two-story stacked applications is 18" for SSW.
4. Maximum shim block height is 7/8". Contact Simpson Strong-Tie for solutions using taller shim blocks.
5. SSW models require a two-story stacked connection kit depending on wall model width as follows: SSW21-2KT, or SSW24-2KT.
6. NS = No solution available.
7. See general notes for additional information.

Wall Selection and Anchorage Classification:

BALLOON-FRAMING APPLICATION

Seismic Design Category	Equivalent Wall-Bracing Length (ft)	Top Plate Height	Bottom-Wall Model	Top-Wall Model	Stacked Height	Base Material Under Wall	
						Concrete	CMU
D ₀ -D ₂	4	14'-8 1/4" – 15'-8 1/4"	SSW21x8-STK	SSW21x7	14'-5 1/4"	F	NS
		14'-8 1/4" – 15'-8 1/4"	SSW24x8-STK	SSW24x7	14'-5 1/4"	F	G
		15'-9 1/2" – 16'-9 1/2"		SSW24x8	15'-6 1/2"	F	G
		16'-8 1/4" – 17'-8 1/4"	SSW24x10-STK	SSW24x7	16'-5 1/4"	F	NS
		17'-9 1/2" – 18'-9 1/2"		SSW24x8	17'-6 1/2"	F	NS
		18'-9 1/2" – 19'-9 1/2"		SSW24x9	18'-6 1/2"	G	NS
		19'-9 1/2" – 20'-9 1/2"		SSW24x10	19'-6 1/2"	G	NS

1. See pages 46-69 for anchorage solutions.
2. Required length of braced wall panels for balloon-frame applications should be based on the length required for the bottom story assuming the balloon-framed wall counts as two stories.
3. Maximum shim block height above top SSW shall be 12". Shim block height = (Plate Height) – (Stacked SSW Height) – (3" Top Plate Depth).
4. A minimum of two full-height 2x6 studs shall be placed on each side of balloon-framed wall and fastened together with 10d common nails at 16" o.c. Design for out-of-plane wind requirements by others.
5. SSW balloon-framing wall models require 3" end distance from corner to accommodate additional full height studs.
6. Balloon-framing wall connection kit (SSWBF-KT) required for all installations.
7. NS = No solution available.
8. See general notes for additional information.



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