


Seismic



Wall Selection and Anchorage Classification:




TWO-STORY-STACKED-ON-WOOD-FLOOR APPLICATION

Equivalent Wall-Bracing Length (ft)	1st-Story Wall Model (on wood floor)	2nd-Story Wall Model	Base Material Under 1st-Story Wall
			Wood Floor 
4	SSW21x8-STK	SSW21x8	E
	SSW21x9-STK	SSW21x8	E
		SSW21x9	E
	SSW21x10-STK	SSW21x8	E
		SSW21x9	E
	SSW21x11-STK	SSW21x8	E
	SSW24x8-STK	SSW24x8	D
		SSW24x8	D
	SSW24x9-STK	SSW24x8	D
		SSW24x9	D
	SSW24x10-STK	SSW24x8	D
		SSW24x9	E
		SSW24x10	E
	SSW24x11-STK	SSW24x8	E
	SSW24x9	E	
	SSW24x10	E	
SSW24x12-STK	SSW24x8	E	
	SSW24x9	E	
	SSW24x10	E	

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 first-floor joist depth for wood-floor applications is 16" for SSW.
4. Maximum second-floor joist depth for two-story stacked applications is 18" for SSW.
5. Maximum shim block height is 7/8". Contact Simpson Strong-Tie for solutions using taller shim blocks.
6. SSW models require a wood first-floor connection kit depending on wall model width as follows: SSW21-1KT, or SSW24-1KT.
7. SSW models require a two-story stacked connection kit depending on wall model width as follows: SSW21-2KT, or SSW24-2KT.
8. NS = No solution available.
9. See general notes for additional information.

Wall Selection and Anchorage Classification:

BALLOON-FRAMING APPLICATION

Equivalent Wall-Bracing Length (ft)	Top-Plate Height	Bottom-Wall Model	Top-Wall Model	Stacked Height	Base Material Under Wall		
					Concrete 	CMU 	Wood Floor 
4	14'-8 1/4" – 15'-8 1/4"	SSW18x8-STK	SSW18x7	14'-5 1/4"	E	NS	E
	15'-9 1/2" – 16'-9 1/2"		SSW18x8	15'-6 1/2"	E	NS	E
	16'-8 1/4" – 17'-8 1/4"	SSW18x10-STK	SSW18x7	16'-5 1/4"	E	NS	NS
	14'-8 1/4" – 15'-8 1/4"	SSW21x8-STK	SSW21x7	14'-5 1/4"	D	E	D
	15'-9 1/2" – 16'-9 1/2"		SSW21x8	15'-6 1/2"	D	E	E
	16'-8 1/4" – 17'-8 1/4"	SSW21x10-STK	SSW21x7	16'-5 1/4"	D	E	E
	17'-9 1/2" – 18'-9 1/2"		SSW21x8	17'-6 1/2"	E	E	E
	18'-9 1/2" – 19'-9 1/2"		SSW21x9	18'-6 1/2"	E	F	E
	19'-9 1/2" – 20'-9 1/2"		SSW21x10	19'-6 1/2"	E	F	E
	14'-8 1/4" – 15'-8 1/4"	SSW24x8-STK	SSW24x7	14'-5 1/4"	D	D	D
	15'-9 1/2" – 16'-9 1/2"		SSW24x8	15'-6 1/2"	D	D	D
	16'-8 1/4" – 17'-8 1/4"	SSW24x10-STK	SSW24x7	16'-5 1/4"	D	D	D
	17'-9 1/2" – 18'-9 1/2"		SSW24x8	17'-6 1/2"	D	D	D
	18'-9 1/2" – 19'-9 1/2"		SSW24x9	18'-6 1/2"	D	E	E
	19'-9 1/2" – 20'-9 1/2"		SSW24x10	19'-6 1/2"	D	E	E

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 floor-joist depth for wood-floor applications is 16" for SSW.
4. Maximum shim block height above top SSW shall be 12". Shim-block height = (Plate Height) – (Stacked SSW Height) – (3" Top Plate Depth).
5. 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.
6. SSW balloon-framing wall models require 3" end distance from corner to accommodate additional full-height studs.
7. SSW models installed on wood floor require a wood first-floor connection kit depending on wall model width as follows: SSW18-1KT, SSW21-1KT, or SSW24-1KT.
8. Balloon-framing wall connection kit (SSWBF-KT) required for all installations.
9. NS = No solution available.
10. See general notes for additional information.