

**WOOD STRONG-WALL®: Raised-Floor Walls****FIRST-STORY WALLS ON WOOD FLOOR – 2006 INTERNATIONAL BUILDING CODE®**

MODEL NO.	Seismic		Wind	
	Allowable ASD Shear Load V (lbs)	Drift at Allowable Shear (in)	Allowable ASD Shear Load V (lbs)	Drift at Allowable Shear (in)
SW18x8-RF	835	0.41	1080	0.53
SW24x8-RF	1210	0.39	1640	0.53
SW32x8-RF	1790	0.39	2330	0.53
SW48x8-RF	2715	0.31	4320	0.53
SW18x9-RF	680	0.37	910	0.60
SW24x9-RF	965	0.40	1270	0.60
SW32x9-RF	1505	0.38	2090	0.60
SW48x9-RF	2550	0.35	3770	0.60
SW24x10-RF	900	0.40	1175	0.67
SW32x10-RF	1500	0.45	2015	0.67
SW48x10-RF	2215	0.36	3220	0.67

See footnotes below.

**SECOND-STORY WALLS – 2006 INTERNATIONAL BUILDING CODE®**

MODEL NO.	Seismic		Wind	
	Allowable ASD Shear Load V (lbs)	Drift at Allowable Shear (in)	Allowable ASD Shear Load V (lbs)	Drift at Allowable Shear (in)
SW18x8-RF	750	0.37	1000	0.53
SW24x8-RF	1095	0.39	1455	0.53
SW32x8-RF	1595	0.40	2115	0.53
SW48x8-RF	2510	0.39	3340	0.53
SW18x9-RF	600	0.33	810	0.60
SW24x9-RF	935	0.38	1245	0.60
SW32x9-RF	1360	0.39	1805	0.60
SW48x9-RF	2310	0.41	3055	0.60
SW24x10-RF	810	0.37	1080	0.67
SW32x10-RF	1320	0.46	1730	0.67
SW48x10-RF	2005	0.41	2660	0.67

1. For plywood shear panel, add "P" to model name (e.g. SW24x8P), and multiply the table loads by 0.88.
2. All Raised-Floor walls require 1½" minimum end distance from corner for end post bearing plate.  
See details 3/SW2 and 4/SW2 on page 69.
3. Typical shim thickness between the Strong-Wall® and top plates or header is 7/8" or less using Simpson Strong-Tie® Strong-Drive® ¼"x6" screws (SDS). For additional shim thickness, see detail 7/SW1 on page 68.
4. See allowable vertical load table on page 47 for Wood Strong-Wall maximum compression and tension capacities.
5. Allowable shear capacities must be reduced as limited by anchor bolt capacities for installations on CMU.
6. Uplift forces may be calculated using the following formula:

$$\text{Uplift} = \frac{\text{Shear} \times \text{Height}}{\text{Width} - 5.25'}$$

For stacked conditions, evaluate cumulative overturning for anchorage at the base of first-floor wall.  
See page 48 for SWAB anchorage solutions.