

# STEEL STRONG-WALL®: Standard Application on Concrete Foundations

## ALLOWABLE OUT-OF-PLANE LOADS (PSF) FOR SINGLE-STORY WALLS ON CONCRETE FOUNDATIONS

Model Width	Axial Load (lbs)	Nominal Height of Panel (feet)					
		8	9	10	11	12	13
12" wide	1000	200	140	105	NA	NA	NA
	4000	150	105	70	NA	NA	NA
	7500	90	55	25	NA	NA	NA
15" wide	1000	165	130	100	80	70	NA
	4000	130	95	70	50	40	NA
	7500	95	65	45	30	15	NA
18" wide	7500	310	215	160	120	90	70
21" wide	7500	260	185	135	100	70	50
24" wide	7500	275	195	135	105	80	65

1. Loads shown are at ASD level in pounds per square foot (psf) of wall with no further increase in load allowed.
2. Axial load denotes maximum gravity load permitted on entire panel acting in combination with the out-of-plane load.
3. Load considers a deflection limit of  $h/240$ .
4. Values are applicable to either the ASD Basic or Alternate Basic load combinations.
5. Allowable out-of-plane loads for the 12- and 15-inch walls may be linearly interpolated between the axial loads shown.
6. See page 31 for S/SSW models for Cold-Formed Steel Construction.
7. Table loads apply only to single-story walls on concrete foundations.

## AXIAL CAPACITIES FOR SINGLE-STORY WALLS ON CONCRETE FOUNDATIONS

Model Width	Compression Capacity with No Lateral Loads (lbs)							
	Nominal Height of Panel (feet)							
	7	7.4	8	9	10	11	12	13
12" wide	20200	19000	17200	14500	11800	NA	NA	NA
15" wide	25300	24200	22600	20000	17400	14900	12600	NA
18" wide	42500	40400	37500	32900	28400	24100	20200	17200
21" wide	43700	41100	37500	32000	26700	22000	18400	15700
24" wide	51600	48800	44800	38700	32900	27400	22900	19500

1. Compression capacity is lesser of wall buckling capacity or 2500 psi concrete bearing limit.
2. Compression capacity of wall assumes no lateral loads present.  
See allowable in-plane or out-of-plane load tables for combined lateral and axial loading conditions.
3. Values are applicable to either the ASD Basic or Alternate Basic load combinations.
4. See page 31 for S/SSW models for Cold-Formed Steel Construction.
5. Table loads apply only to single-story walls on concrete foundations.

## ALLOWABLE TENSION (UPLIFT) LOADS FOR STEEL STRONG-WALL® WOOD JAMB STUD

Model Width	Tension (Uplift) Capacity per Jamb Stud (lbs)							
	Nominal Height of Panel (feet)							
	7	7.4	8	9	10	11	12	13
12" wide	1535	1535	1845	2150	2500	NA	NA	NA
15" wide	1845	2150	2460	2500	2500	3070	3685	NA
18" wide	1845	1845	2150	2500	2500	3380	3685	3980
21" wide	1845	1845	2150	2500	2500	3070	3685	3980
24" wide	1845	1845	2150	2500	2500	3070	3685	3980

1. Allowable tension (uplift) load is based on capacity of the lesser of the connection between the stud and the steel panel or stud tension capacity. The capacity of the SSW wall anchor bolt and anchorage to the foundation must be adequate to transfer the additional tension (uplift). NA = not applicable.
2. Loads include a 1.60 load duration increase for wood subjected to wind or earthquake.  
Reductions for other load durations must be taken according to the applicable code.