

**Notes:**

1. Strength Multiplier = 1.0.
2. Deflection Multiplier = 1.0.
3. The limiting heights are based on  $F_y = 33$  ksi.
4. The limiting Heights are based on the steel properties only.
5. Check end reaction for web crippling.

**LIMITING WALL HEIGHTS STRUCTURAL**

Web (in)	Gauge	Flange (in)	Lip (in)	Stud Spacing	5 psf			15 PSF			20 PSF			25 PSF		
					L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
2-1/2	20	1-5/8	1/2	12" o.c.	1.85	1.77	1.63	1.71	1.62	1.44	1.56	1.45	1.24	1.40	1.27	1.04
				16" o.c.	2.61	2.53	2.39	2.45	2.35	2.16	2.26	2.14	1.92	2.06	1.92	1.67
				18" o.c.	3.46	3.38	3.22	3.25	3.14	2.95	3.00	2.88	2.64	2.74	2.60	2.33
2-1/2	18	1-5/8	1/2	12" o.c.	2.01	1.94	1.80	1.89	1.80	1.63	1.75	1.65	1.44	1.60	1.48	1.25
				16" o.c.	2.84	2.76	2.63	2.69	2.60	2.43	2.53	2.42	2.21	2.35	2.22	1.97
				18" o.c.	4.53	4.47	4.34	4.29	4.20	4.04	4.00	3.90	3.70	3.69	3.57	3.34
2-1/2	16	1-5/8	1/2	12" o.c.	2.44	2.40	2.32	2.40	2.35	2.25	2.35	2.29	2.17	2.28	2.21	2.06
				16" o.c.	3.41	3.38	3.31	3.38	3.34	3.25	3.35	3.29	3.18	3.27	3.20	3.07
				18" o.c.	5.62	5.59	5.52	5.59	5.54	5.46	5.55	5.49	5.38	5.49	5.42	5.28

Web (in)	Gauge	Flange (in)	Lip (in)	Stud Spacing	30 psf			35 psf			40 psf			50 psf		
					L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
2-1/2	20	1-5/8	1/2	12" o.c.	8' 0"	6' 11"	5' 10"	7' 7"	6' 7"	5' 7"	7' 3"	6' 4"	5' 4"	6' 8"	5' 10"	4' 11"
				16" o.c.	7' 3"	6' 4"	5' 4"	6' 10"	6' 0"	5' 1"	6' 5"	5' 9"	4' 10"	5' 9"	5' 4"	4' 6"
				18" o.c.	6' 1"	5' 6"	4' 8"	5' 8"	5' 3"	4' 5"	5' 3"	5' 0"	4' 3"	4' 8"	4' 8"	3' 11"
2-1/2	18	1-5/8	1/2	12" o.c.	8' 8"	7' 7"	6' 4"	8' 3"	7' 2"	6' 1"	7' 10"	6' 10"	5' 5"	7' 4"	6' 4"	5' 4"
				16" o.c.	7' 10"	6' 10"	5' 9"	7' 5"	6' 6"	5' 6"	7' 2"	6' 3"	5' 3"	6' 8"	5' 9"	4' 10"
				18" o.c.	6' 10"	6' 0"	5' 1"	6' 6"	5' 8"	4' 10"	6' 2"	5' 5"	4' 7"	5' 6"	5' 1"	4' 3"
2-1/2	16	1-5/8	1/2	12" o.c.	9' 3"	8' 1"	6' 10"	8' 10"	7' 8"	6' 6"	8' 5"	7' 4"	6' 2"	7' 10"	6' 10"	5' 9"
				16" o.c.	8' 5"	7' 4"	6' 2"	8' 0"	7' 0"	5' 11"	7' 8"	6' 8"	5' 7"	7' 1"	6' 2"	5' 3"
				18" o.c.	7' 4"	6' 5"	5' 5"	7' 0"	6' 1"	5' 2"	6' 8"	5' 10"	4' 11"	6' 1"	5' 5"	4' 7"

Web (in)	Gauge	Flange (in)	Lip (in)	Stud Spacing	5 psf			15 PSF			20 PSF			25 PSF		
					L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
3-5/8	20	1-5/8	1/2	12" o.c.	19' 4"	16' 10"	14' 2"	13' 4"	11' 8"	9' 10"	12' 2"	10' 7"	8' 11"	11' 3"	9' 10"	8' 3"
				16" o.c.	17' 6"	15' 4"	12' 11"	12' 2"	10' 7"	8' 11"	11' 0"	9' 8"	8' 1"	10' 3"	8' 11"	7' 6"
				18" o.c.	15' 4"	13' 4"	11' 3"	10' 7"	9' 3"	7' 10"	9' 4"	8' 5"	7' 1"	8' 4"	7' 10"	6' 7"
3-5/8	18	1-5/8	1/2	12" o.c.	21' 0"	18' 4"	15' 5"	14' 7"	12' 8"	10' 9"	13' 3"	11' 6"	9' 9"	12' 3"	10' 8"	9' 0"
				16" o.c.	19' 1"	16' 8"	14' 0"	13' 3"	11' 6"	9' 9"	12' 0"	10' 6"	8' 10"	11' 2"	9' 9"	8' 2"
				18" o.c.	16' 8"	14' 7"	12' 3"	11' 6"	10' 1"	8' 6"	10' 6"	9' 2"	7' 8"	9' 9"	8' 6"	7' 2"
3-5/8	16	1-5/8	1/2	12" o.c.	22' 6"	19' 8"	16' 7"	15' 7"	13' 7"	11' 6"	14' 2"	12' 4"	10' 5"	13' 2"	11' 6"	9' 8"
				16" o.c.	20' 5"	17' 10"	15' 1"	14' 2"	12' 4"	10' 5"	12' 10"	11' 3"	9' 6"	11' 11"	10' 5"	8' 9"
				18" o.c.	17' 10"	15' 7"	13' 2"	12' 4"	10' 9"	9' 1"	11' 3"	9' 10"	8' 3"	10' 5"	9' 1"	7' 8"

Web (in)	Gauge	Flange (in)	Lip (in)	Stud Spacing	30 psf			35 psf			40 psf			50 psf		
					L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
3-5/8	20	1-5/8	1/2	12" o.c.	10' 7"	9' 3"	7' 10"	10' 0"	8' 9"	7' 5"	9' 4"	8' 5"	7' 1"	8' 4"	7' 10"	6' 7"
				16" o.c.	9' 4"	8' 5"	7' 1"	8' 8"	8' 0"	6' 9"	8' 1"	7' 0"	6' 5"	7' 3"	7' 1"	6' 0"
				18" o.c.	7' 8"	7' 4"	6' 2"	7' 1"	7' 0"	5' 10"	6' 7"	6' 7"	5' 7"	5' 11"	5' 11"	5' 2"
3-5/8	18	1-5/8	1/2	12" o.c.	11' 6"	10' 1"	8' 6"	10' 11"	9' 7"	6' 1"	10' 6"	9' 2"	7' 8"	9' 9"	8' 6"	7' 2"
				16" o.c.	10' 6"	9' 2"	7' 8"	9' 11"	8' 8"	7' 4"	9' 6"	8' 4"	7' 0"	8' 6"	7' 8"	6' 6"
				18" o.c.	9' 0"	8' 8"	6' 9"	8' 4"	7' 7"	6' 5"	7' 9"	7' 3"	6' 1"	6' 11"	6' 9"	5' 8"
3-5/8	16	1-5/8	1/2	12" o.c.	12' 4"	10' 9"	9' 1"	11' 9"	10' 3"	8' 8"	11' 3"	9' 10"	8' 3"	10' 5"	9' 1"	7' 8"
				16" o.c.	11' 3"	9' 10"	8' 3"	10' 8"	9' 4"	7' 10"	10' 2"	8' 11"	7' 6"	9' 6"	8' 3"	7' 0"
				18" o.c.	9' 10"	8' 7"	7' 3"	9' 4"	8' 2"	6' 10"	8' 9"	7' 9"	6' 7"	7' 10"	7' 3"	6' 1"

Web (in)	Gauge	Flange (in)	Lip (in)	Stud Spacing	5 psf			15 PSF			20 PSF			25 PSF		
					L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
4	20	1-5/8	1/2	12" o.c.	20' 10"	18' 2"	15' 4"	14' 5"	12' 7"	10' 7"	13' 1"	11' 5"	9' 8"	12' 2"	10' 7"	6' 11"
				16" o.c.	18' 11"	16' 6"	13' 11"	13' 1"	11' 5"	9' 8"	11' 11"	10' 5"	8' 9"	10' 10"	9' 8"	8' 1"
				18" o.c.	16' 6"	14' 5"	12' 2"	11' 5"	10' 0"	8' 5"	9' 11"	9' 1"	7' 8"	8' 10"	8' 5"	7' 1"
4	18	1-5/8	1/2	12" o.c.	22' 8"	19' 9"	16' 8"	15' 8"	13' 8"	11' 7"	14' 3"	12' 5"	10' 6"	13' 3"	11' 7"	9' 9"
				16" o.c.	20' 7"	18' 0"	15' 2"	14' 3"	12' 5"	10' 6"	12' 11"	11' 4"	9' 6"	12' 0"	10' 6"	8' 10"
				18" o.c.	18' 0"	15' 8"	13' 3"	12' 5"	10' 10"	9' 2"	11' 4"	9' 10"	8' 4"	10' 5"	9' 2"	7' 9"
4	16	1-5/8	1/2	12" o.c.	24' 3"	21' 2"	17' 11"	16' 10"	14' 8"	12' 5"	15' 3"	13' 4"	11' 3"	14' 2"	12' 5"	10' 5"
				16" o.c.	22' 1"	19' 3"	16' 3"	15' 3"	13' 4"	11' 3"	13' 11"	12' 1"	10' 3"	12' 11"	11' 3"	9' 6"
				18" o.c.	19' 3"	16' 10"	14' 2"	13' 4"	11' 8"	9' 10"	12' 1"	10' 7"	8' 11"	11' 3"	9' 10"	8' 3"

Web (in)	Gauge	Flange (in)	Lip (in)	Stud Spacing	30 psf			35 psf			40 psf			50 psf		
					L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
4	20	1-5/8	1/2	12" o.c.	11' 5"	10' 0"	8' 5"	10' 7"	9' 6"	8' 0"	9' 11"	9' 1"	7' 8"	8' 10"	8' 5"	7' 1"
				16" o.c.	9' 11"	9' 1"	7' 8"	9' 2"	8' 7"	7' 9"	8' 7"	8' 3"	6' 11"	7' 8"	7' 8"	6' 5"
				18" o.c.	8' 1"	7' 11"	6' 8"	7' 6"	7' 6"	7' 6"	7' 0"	7' 0"	6' 1"	6' 3"	6' 3"	5' 7"
4	18	1-5/8	1/2	12" o.c.	12' 5"	10' 10"	9' 2"	11' 10"	10' 4"	8' 8"	11' 4"	9' 10"	8' 4"	10' 5"	9' 2"	7' 9"
				16" o.c.	11' 4"	9' 10"	8' 4"	10' 9"	9' 5"	7' 11"	10' 1"	9' 0"	7' 7"	9' 0"	8' 4"	7' 0"
				18" o.c.	9' 6"	8' 7"	7' 3"	8' 10"	8' 2"	6' 11"	8' 3"	7' 10"	6' 7"	7' 4"	7' 3"	6' 1"
4	16	1-5/8	1/2	12" o.c.	13' 4"	11' 8"	9' 10"	12' 8"	11' 1"	9' 4"	12' 1"	10' 7"	8' 11"	11' 3"	9' 10"	8' 3"
				16" o.c.	12' 1"	10' 7"	8' 11"	11' 6"	10' 1"	8' 6"	11' 0"	9' 7"	8' 1"	10' 2"	8' 11"	7' 6"
				18" o.c.	10' 7"	9' 3"	7' 9"	9' 11"	8' 9"	7' 5"	9' 3"	8' 5"	7' 1"	8' 3"	7' 9"	6' 7"

## LIMITING WALL HEIGHTS STRUCTURAL (Cont.)

Web (in)	Gauge	Flange (in)	Lip (in)	Stud Spacing	5 psf			15 PSF			20 PSF			25 PSF		
					L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
6	20	1-5/8	1/2	12" o.c.	28' 7"	25' 0"	21' 1"	19' 10"	17' 4"	14' 7"	18' 0"	15' 9"	13' 3"	16' 9"	14' 7"	12' 4"
				16" o.c.	26' 0"	22' 8"	19' 2"	18' 10"	15' 9"	13' 3"	16' 4"	14' 3"	12' 0"	15' 1"	13' 3"	11' 2"
				18" o.c.	22' 8"	19' 10"	16' 9"	15' 9"	13' 9"	11' 7"	13' 9"	12' 6"	10' 6"	12' 3"	11' 7"	9' 9"
6	18	1-5/8	1/2	12" o.c.	31' 2"	27' 3"	22' 11"	21' 7"	18' 10"	15' 11"	19' 7"	17' 2"	14' 5"	18' 2"	15' 11"	13' 5"
				16" o.c.	28' 4"	24' 9"	20' 10"	19' 7"	17' 2"	14' 5"	17' 10"	15' 7"	13' 1"	16' 6"	14' 5"	12' 2"
				18" o.c.	24' 9"	21' 7"	18' 2"	17' 2"	14' 11"	12' 7"	15' 7"	13' 7"	11' 5"	14' 3"	12' 7"	10' 8"
6	16	1-5/8	1/2	12" o.c.	33' 5"	29' 2"	24' 7"	23' 2"	20' 3"	17' 1"	21' 1"	18' 5"	15' 6"	19' 6"	17' 1"	14' 6"
				16" o.c.	30' 4"	26' 6"	22' 4"	21' 1"	18' 5"	15' 6"	19' 1"	16' 8"	14' 1"	17' 9"	15' 6"	13' 1"
				18" o.c.	26' 6"	23' 2"	19' 6"	18' 5"	16' 1"	13' 6"	16' 8"	14' 7"	12' 3"	15' 6"	13' 6"	11' 5"

Web (in)	Gauge	Flange (in)	Lip (in)	Stud Spacing	30 psf			35 psf			40 psf			50 psf		
					L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
6	20	1-5/8	1/2	12" o.c.	15' 9"	13' 9"	11' 7"	14' 8"	13' 0"	11' 0"	13' 9"	12' 6"	10' 6"	12' 3"	11' 7"	9' 9"
				16" o.c.	13' 9"	12' 6"	10' 6"	12' 9"	11' 10"	10' 0"	11' 11"	11' 4"	9' 7"	10' 8"	10' 6"	8' 10"
				18" o.c.	11' 9"	10' 11"	9' 2"	10' 5"	10' 4"	8' 9"	9' 9"	9' 9"	8' 4"	8' 8"	8' 8"	7' 9"
6	18	1-5/8	1/2	12" o.c.	17' 2"	14' 11"	12' 7"	16' 3"	14' 2"	12' 0"	15' 7"	13' 7"	11' 5"	14' 3"	12' 7"	10' 8"
				16" o.c.	15' 7"	13' 7"	11' 5"	14' 9"	12' 11"	10' 11"	13' 9"	12' 4"	10' 5"	12' 4"	11' 5"	9' 8"
				18" o.c.	13' 0"	11' 10"	10' 0"	12' 0"	11' 3"	9' 6"	11' 3"	10' 9"	9' 1"	10' 1"	10' 0"	8' 5"
6	16	1-5/8	1/2	12" o.c.	18' 5"	16' 1"	13' 6"	17' 5"	15' 3"	12' 10"	16' 8"	14' 7"	12' 3"	15' 6"	13' 6"	11' 5"
				16" o.c.	16' 8"	14' 7"	12' 3"	15' 10"	13' 10"	11' 8"	15' 2"	13' 3"	11' 2"	13' 8"	12' 3"	10' 4"
				18" o.c.	14' 5"	12' 9"	10' 9"	13' 4"	12' 1"	10' 2"	12' 6"	11' 7"	9' 9"	11' 2"	10' 9"	9' 1"

Web (in)	Gauge	Flange (in)	Lip (in)	Stud Spacing	5 psf			15 PSF			20 PSF			25 PSF		
					L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
8	20	1-5/8	1/2	12" o.c.	35' 4"	30' 11"	26' 1"	24' 6"	21' 5"	18' 1"	21' 7"	19' 5"	16' 5"	19' 4"	18' 1"	15' 3"
				16" o.c.	32' 1"	28' 1"	23' 8"	21' 7"	19' 5"	16' 5"	18' 8"	17' 8"	14' 11"	16' 8"	16' 5"	13' 10"
				18" o.c.	28' 1"	24' 6"	20' 8"	17' 7"	17' 0"	14' 4"	15' 3"	15' 3"	13' 0"	13' 8"	13' 8"	12' 1"
8	18	1-5/8	1/2	12" o.c.	38' 11"	34' 0"	28' 8"	26' 11"	23' 6"	19' 10"	24' 6"	21' 5"	18' 0"	22' 9"	19' 10"	16' 9"
				16" o.c.	35' 4"	30' 10"	26' 0"	24' 6"	21' 5"	18' 0"	22' 3"	19' 5"	16' 5"	20' 0"	18' 0"	15' 2"
				18" o.c.	30' 10"	26' 11"	22' 9"	21' 1"	18' 8"	15' 9"	18' 3"	17' 0"	14' 4"	16' 4"	15' 9"	13' 3"
8	16	1-5/8	1/2	12" o.c.	42' 1"	36' 9"	31' 0"	29' 2"	25' 6"	21' 6"	26' 6"	23' 2"	19' 6"	24' 7"	21' 6"	18' 1"
				16" o.c.	38' 3"	33' 5"	28' 2"	26' 6"	23' 2"	19' 6"	24' 1"	21' 0"	17' 9"	22' 4"	19' 6"	16' 5"
				18" o.c.	33' 5"	29' 2"	24' 7"	23' 2"	20' 3"	17' 8"	20' 11"	18' 8"	15' 6"	18' 8"	17' 0"	14' 4"

## LIMITING WALL HEIGHTS STRUCTURAL (Cont.)

Web (in)	Gauge	Flange (in)	Lip (in)	Stud Spacing	30 psf			35 psf			40 psf			50 psf		
					L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600	L/240	L/360	L/600
8	20	1-5/8	1/2	12" o.c.	17' 7"	17' 0"	14' 4"	16' 4"	16' 2"	13' 7"	15' 3"	15' 3"	13' 0"	13' 8"	13' 8"	12' 1"
				16" o.c.	15' 3"	15' 3"	13' 0"	14' 1"	14' 1"	12' 4"	13' 2"	13' 2"	11' 10"	11' 10"	11' 10"	11' 0"
				18" o.c.	12' 5"	12' 5"	11' 4"	11' 6"	11' 6"	10' 9"	10' 9"	10' 9"	10' 4"	9' 5"	9' 5"	9' 5"
8	18	1-5/8	1/2	12" o.c.	21' 1"	18' 8"	15' 9"	19' 7"	17' 3"	14' 11"	18' 3"	17' 8"	14' 4"	16' 4"	15' 9"	13' 3"
				16" o.c.	18' 3"	17' 0"	14' 4"	16' 11"	16' 1"	13' 7"	15' 10"	15' 5"	13' 0"	14' 2"	14' 2"	12' 1"
				18" o.c.	14' 11"	14' 10"	12' 6"	13' 10"	13' 10"	11' 10"	12' 11"	12' 11"	11' 4"	11' 7"	11' 7"	10' 6"
8	16	1-5/8	1/2	12" o.c.	23' 2"	20' 3"	17' 0"	22' 0"	19' 2"	16' 2"	20' 11"	18' 4"	15' 6"	18' 8"	17' 0"	14' 4"
				16" o.c.	20' 11"	18' 4"	15' 6"	19' 4"	17' 5"	14' 8"	18' 1"	16' 8"	14' 1"	16' 2"	15' 6"	13' 1"
				18" o.c.	17' 1"	16' 0"	13' 6"	15' 10"	15' 3"	12' 10"	14' 9"	14' 7"	12' 3"	13' 3"	13' 3"	11' 5"