

LIMITING HEIGHTS (FT)



LIMITING HEIGHTS APPLICATION:

For selection of non-axial load bearing wall elements subjected to uniform lateral (wind) loads.

USE:

Select stud in terms of spacing (inches o.c.), lateral load (psf), and deflection limit which provides an allowable height equal to or greater than the actual project requirements. The use of these tables are limited to applications involving simply supported components.

Limiting Height Tables			Wind Load & Spacing																							
Member	MIW Type (SSMA)	Deflection	Wind Load & Spacing																							
			5 PSF			15 PSF			20 PSF			25 PSF			30 PSF			35 PSF			40 PSF			50 PSF		
			12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.
2-1/2" Members																										
212SW20 (250S162-33)	L/240	14' 4"	13' 0"	11' 4"	9' 11"	9' 0"	7' 10"	9' 0"	8' 2"	7' 2"	8' 4"	7' 7"	6' 8"	7' 10"	7' 2"	6' 1"	7' 6"	6' 9"	5' 9"	7' 2"	6' 6"	5' 0"	6' 8"	5' 9"	4' 0"	
	L/360	12' 6"	11' 4"	9' 11"	8' 8"	7' 10"	6' 10"	7' 10"	7' 2"	6' 3"	7' 4"	6' 8"	5' 9"	6' 10"	6' 3"	5' 5"	6' 6"	5' 11"	5' 2"	6' 3"	5' 8"	4' 11"	5' 9"	5' 3"	4' 0"	
	L/600	10' 7"	9' 7"	8' 4"	7' 4"	6' 8"	5' 9"	6' 8"	6' 0"	5' 3"	6' 2"	5' 7"	4' 11"	5' 9"	5' 3"	4' 7"	5' 6"	5' 0"	4' 4"	5' 3"	4' 9"	4' 2"	4' 11"	4' 5"	3' 10"	
212SW18 (250S162-43)	L/240	15' 7"	14' 2"	12' 4"	10' 9"	9' 10"	8' 7"	9' 10"	8' 11"	7' 9"	9' 1"	8' 3"	7' 3"	8' 7"	7' 9"	8' 7"	8' 2"	7' 5"	5' 8"	7' 9"	7' 1"	4' 11"	7' 3"	5' 11"	3' 11"	
	L/360	13' 7"	12' 4"	10' 9"	9' 5"	8' 7"	7' 6"	8' 7"	7' 9"	6' 9"	7' 11"	7' 3"	6' 4"	7' 6"	6' 9"	5' 11"	7' 1"	6' 5"	5' 7"	6' 9"	6' 2"	4' 11"	6' 4"	5' 9"	3' 11"	
	L/600	11' 6"	10' 5"	9' 1"	7' 11"	7' 3"	6' 4"	7' 3"	6' 7"	5' 9"	6' 8"	6' 1"	5' 4"	6' 4"	5' 9"	5' 0"	6' 0"	5' 5"	4' 9"	5' 9"	5' 2"	4' 6"	4' 10"	4' 10"	3' 11"	
212SW16 (250S162-54)	L/240	16' 8"	15' 2"	13' 3"	11' 7"	10' 6"	9' 2"	10' 6"	9' 6"	8' 4"	9' 9"	8' 10"	7' 3"	9' 2"	8' 4"	6' 0"	8' 8"	7' 9"	5' 2"	8' 4"	6' 9"	4' 6"	7' 3"	5' 5"	3' 7"	
	L/360	14' 7"	13' 3"	11' 7"	10' 1"	9' 2"	8' 0"	9' 2"	8' 4"	7' 3"	8' 6"	7' 9"	6' 9"	8' 0"	7' 3"	6' 0"	7' 7"	6' 11"	5' 2"	7' 3"	6' 7"	4' 6"	6' 9"	5' 5"	3' 7"	
	L/600	12' 3"	11' 2"	9' 9"	8' 6"	7' 9"	6' 9"	7' 9"	7' 0"	6' 1"	7' 2"	6' 6"	5' 8"	6' 9"	6' 1"	5' 4"	6' 5"	5' 10"	5' 1"	6' 1"	5' 7"	4' 6"	5' 8"	5' 2"	3' 7"	
212SW14 (250S162-68)	L/240	17' 10"	16' 2"	14' 1"	12' 4"	11' 2"	9' 9"	11' 2"	10' 2"	7' 10"	10' 5"	9' 5"	6' 3"	9' 9"	7' 10"	5' 3"	9' 0"	6' 9"	4' 6"	7' 10"	5' 11"	3' 11"	6' 3"	4' 8"	3' 1"	
	L/360	15' 7"	14' 1"	12' 4"	10' 9"	9' 9"	8' 6"	9' 9"	8' 11"	7' 9"	9' 1"	8' 3"	6' 3"	8' 6"	7' 9"	5' 3"	8' 1"	6' 9"	4' 6"	7' 9"	5' 11"	3' 11"	6' 3"	4' 8"	3' 1"	
	L/600	13' 1"	11' 11"	10' 5"	9' 1"	8' 3"	7' 2"	8' 3"	7' 6"	6' 6"	7' 8"	6' 11"	6' 1"	7' 2"	6' 6"	5' 3"	6' 10"	6' 2"	4' 6"	6' 6"	5' 11"	3' 11"	6' 1"	4' 8"	3' 1"	
3-5/8" Members																										
358CW20 (362S137-33)	L/240	18' 3"	16' 7"	14' 6"	12' 8"	11' 6"	10' 0"	11' 6"	10' 5"	8' 9"	10' 8"	9' 7"	7' 10"	10' 0"	8' 9"	7' 1"	9' 4"	8' 1"	6' 7"	8' 9"	7' 7"	6' 2"	7' 10"	6' 9"	5' 6"	
	L/360	15' 11"	14' 6"	12' 8"	11' 0"	10' 0"	8' 9"	10' 0"	9' 1"	7' 11"	9' 4"	8' 5"	7' 4"	8' 9"	7' 11"	6' 11"	8' 4"	7' 7"	6' 7"	7' 11"	7' 3"	6' 2"	7' 4"	6' 8"	5' 6"	
	L/600	13' 5"	12' 2"	10' 8"	9' 4"	8' 5"	7' 4"	8' 5"	7' 8"	6' 8"	7' 10"	7' 1"	6' 3"	7' 4"	6' 8"	5' 10"	7' 0"	6' 4"	5' 7"	6' 8"	6' 1"	5' 4"	6' 3"	5' 8"	4' 11"	
358CW18 (362S137-43)	L/240	19' 11"	18' 1"	15' 9"	13' 9"	12' 6"	10' 11"	12' 6"	11' 4"	9' 11"	11' 7"	10' 7"	9' 2"	10' 11"	9' 11"	8' 4"	10' 5"	9' 5"	7' 9"	9' 11"	8' 10"	7' 3"	9' 2"	7' 11"	6' 6"	
	L/360	17' 5"	15' 9"	13' 9"	12' 0"	10' 11"	9' 7"	10' 11"	9' 11"	8' 8"	10' 2"	9' 3"	8' 1"	9' 7"	8' 8"	7' 7"	9' 1"	8' 3"	7' 2"	8' 8"	7' 10"	6' 10"	8' 1"	7' 4"	6' 5"	
	L/600	14' 8"	13' 4"	11' 7"	10' 2"	9' 3"	8' 1"	9' 3"	8' 4"	7' 4"	8' 7"	7' 9"	6' 9"	8' 1"	7' 4"	6' 5"	7' 8"	6' 11"	6' 1"	7' 4"	6' 8"	5' 9"	6' 9"	6' 2"	5' 4"	
358CW16 (362S137-54)	L/240	21' 4"	19' 5"	16' 11"	14' 10"	13' 5"	11' 9"	13' 5"	12' 2"	10' 8"	12' 6"	11' 4"	9' 11"	11' 9"	10' 8"	9' 4"	11' 2"	10' 1"	8' 8"	10' 8"	9' 8"	8' 1"	9' 11"	8' 11"	7' 3"	
	L/360	18' 8"	16' 11"	14' 10"	12' 11"	11' 9"	10' 3"	11' 9"	10' 8"	9' 4"	10' 11"	9' 11"	8' 8"	10' 3"	9' 4"	8' 1"	9' 9"	8' 10"	7' 9"	9' 4"	8' 5"	7' 5"	8' 8"	7' 10"	6' 10"	
	L/600	15' 9"	14' 3"	12' 6"	10' 11"	9' 11"	8' 8"	9' 11"	9' 0"	7' 10"	9' 2"	8' 4"	7' 3"	8' 8"	7' 10"	6' 10"	8' 2"	7' 5"	6' 6"	7' 10"	7' 1"	6' 3"	7' 3"	6' 7"	5' 9"	
358CW14 (362S137-68)	L/240	22' 10"	20' 9"	18' 1"	15' 10"	14' 4"	12' 7"	14' 4"	13' 1"	11' 5"	13' 4"	12' 1"	10' 7"	12' 7"	11' 5"	9' 11"	11' 11"	10' 10"	9' 5"	11' 5"	10' 4"	9' 0"	10' 7"	9' 7"	8' 5"	
	L/360	19' 11"	18' 1"	15' 10"	13' 10"	12' 7"	10' 11"	12' 7"	11' 5"	9' 11"	11' 8"	10' 7"	9' 3"	10' 11"	9' 11"	8' 8"	10' 5"	9' 5"	8' 3"	9' 11"	9' 0"	7' 11"	9' 3"	8' 5"	7' 4"	
	L/600	16' 10"	15' 3"	13' 4"	11' 8"	10' 7"	9' 3"	10' 7"	9' 7"	8' 5"	9' 10"	8' 11"	7' 9"	9' 3"	8' 5"	7' 4"	8' 9"	8' 0"	6' 11"	8' 5"	7' 7"	6' 8"	7' 9"	7' 1"	6' 2"	

Notes:

- Applications involving multiple spans, cantilevers, concentrated loads, etc. should be investigated separately.
- Studs shall be braced against rotation by diaphragm rated sheathing board applied full height to each side of the wall. The installation of mechanical bridging, spaced 5'-0" on center, provides adequate rotational restraint for wall under construction before the installation of sheathing. Where the wall is not sheathed full height each side or sheathed one side only, continuous bridging spaced 5'-0" on center shall provide rotational support. Reductions in allowable bending capacity must be investigated separately. When sheathing is used to brace the studs, the products shall maintain their structural integrity during the course of construction and the service life of the wall. The attachment of sheathing should conform to the minimum requirements of industry & product specifications.
- Stud ends shall be attached to track components at the top and bottom of the wall assembly. Exception: Where the stud terminates at a deflection track, fixed attachment to the stud should be avoided. The stud, however, should be restrained against rotation by installing mechanical bridging adjacent to the deflection track.

- Tabulated heights consider no stress increase for short term loading. The allowable bending moment M_a , as defined on page 4 was used to develop limiting heights.
- Deflections and stresses were calculated without regard to the composite contribution of facing materials.
- Calculations were based on the use of the effective structural properties.
- Contact MarinoWare for limiting heights of framing components not shown in the tables.
- Limiting height values for 16 gauge studs are based on steel with $F_y(\min) = 33 \text{ ksi}$.
- Check end reactions for web crippling.

Member		Wind Load & Spacing																								
M/W Type (SSMA)	Deflection	5 PSF			15 PSF			20 PSF			25 PSF			30 PSF			35 PSF			40 PSF			50 PSF			
		12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	
3-5/8" Members																										
358SW20 (362S162-33)	L240	19'-2"	17'-5"	15'-2"	13'-3"	12'-1"	10'-6"	12'-1"	10'-11"	9'-4"	11'-2"	10'-2"	8'-4"	10'-6"	9'-4"	7'-8"	10'-0"	8'-8"	7'-1"	9'-4"	8'-1"	6'-7"	8'-4"	7'-3"	5'-11"	
	L360	16'-9"	15'-2"	13'-3"	11'-7"	10'-6"	9'-2"	10'-6"	9'-7"	8'-4"	9'-9"	8'-10"	7'-9"	8'-4"	7'-3"	6'-11"	8'-9"	7'-11"	6'-11"	8'-4"	7'-7"	6'-7"	5'-11"	7'-9"	7'-0"	5'-11"
	L600	14'-1"	12'-10"	11'-2"	9'-9"	8'-10"	7'-9"	8'-10"	8'-1"	7'-0"	8'-3"	7'-6"	6'-6"	7'-9"	7'-0"	6'-2"	7'-4"	6'-8"	5'-10"	7'-0"	6'-5"	5'-7"	6'-6"	6'-6"	5'-11"	5'-2"
358SW18 (362S162-43)	L240	20'-11"	19'-0"	16'-7"	14'-6"	13'-2"	11'-6"	13'-2"	11'-11"	10'-5"	12'-2"	12'-2"	11'-1"	9'-8"	11'-6"	10'-5"	9'-0"	10'-11"	9'-11"	8'-4"	10'-5"	9'-6"	7'-10"	9'-8"	8'-6"	7'-0"
	L360	18'-3"	16'-7"	14'-6"	12'-8"	11'-6"	10'-0"	11'-6"	10'-5"	9'-1"	10'-8"	9'-8"	8'-5"	10'-0"	9'-1"	7'-11"	9'-6"	8'-8"	7'-7"	9'-1"	8'-3"	7'-3"	8'-5"	7'-8"	6'-8"	5'-8"
	L600	15'-5"	14'-0"	12'-2"	10'-8"	9'-8"	8'-5"	9'-8"	8'-9"	7'-8"	9'-0"	8'-2"	7'-8"	7'-1"	8'-5"	7'-8"	6'-8"	6'-0"	7'-3"	6'-4"	7'-8"	7'-0"	6'-1"	7'-1"	6'-6"	5'-8"
358SW16 (362S162-54)	L240	22'-5"	20'-4"	17'-9"	15'-6"	14'-1"	12'-4"	14'-1"	12'-10"	11'-2"	13'-1"	11'-11"	10'-5"	12'-4"	11'-2"	9'-8"	11'-8"	10'-8"	9'-3"	11'-2"	10'-2"	8'-9"	10'-5"	9'-5"	7'-10"	
	L360	19'-7"	17'-9"	15'-6"	13'-7"	12'-4"	10'-9"	12'-4"	11'-2"	9'-9"	11'-5"	10'-5"	9'-1"	10'-9"	9'-9"	8'-6"	10'-3"	9'-3"	8'-1"	9'-9"	8'-10"	7'-9"	9'-1"	8'-3"	7'-2"	
	L600	16'-6"	15'-0"	13'-1"	11'-5"	10'-5"	9'-1"	10'-5"	9'-5"	8'-3"	9'-8"	8'-9"	7'-8"	9'-1"	8'-3"	7'-2"	8'-7"	7'-10"	6'-10"	8'-3"	7'-6"	6'-6"	7'-8"	6'-11"	6'-1"	
358SW14 (362S162-68)	L240	24'-0"	21'-10"	19'-0"	16'-8"	15'-1"	13'-2"	15'-1"	13'-9"	12'-0"	14'-0"	12'-9"	11'-1"	13'-2"	12'-0"	10'-6"	12'-6"	11'-5"	9'-11"	12'-0"	10'-11"	9'-6"	11'-1"	10'-1"	8'-10"	
	L360	21'-0"	19'-0"	16'-8"	14'-6"	13'-2"	11'-6"	13'-2"	12'-0"	10'-6"	12'-3"	11'-1"	9'-8"	11'-6"	10'-6"	9'-2"	10'-11"	9'-11"	8'-8"	10'-6"	9'-2"	8'-4"	9'-8"	8'-10"	7'-8"	
	L600	17'-8"	16'-1"	14'-0"	12'-3"	11'-1"	9'-8"	11'-1"	10'-1"	8'-10"	10'-4"	9'-4"	8'-2"	9'-8"	8'-10"	7'-8"	9'-3"	8'-4"	7'-4"	8'-10"	8'-0"	7'-0"	8'-2"	7'-5"	6'-6"	
358SW12 (362S162-97)	L240	26'-6"	24'-1"	21'-0"	18'-4"	16'-8"	14'-7"	16'-8"	15'-2"	13'-3"	15'-6"	14'-1"	12'-3"	14'-7"	13'-3"	11'-7"	13'-10"	12'-7"	11'-0"	13'-3"	12'-0"	10'-6"	12'-3"	11'-2"	9'-6"	
	L360	23'-2"	21'-0"	18'-4"	16'-0"	14'-7"	12'-9"	14'-7"	13'-3"	11'-7"	13'-6"	12'-3"	10'-9"	12'-9"	11'-7"	10'-1"	12'-1"	11'-0"	9'-7"	11'-7"	10'-6"	9'-2"	10'-9"	9'-9"	8'-6"	
	L600	19'-6"	17'-9"	15'-6"	13'-6"	12'-3"	10'-9"	12'-3"	11'-2"	9'-9"	11'-5"	10'-4"	9'-0"	10'-9"	9'-9"	8'-7"	10'-2"	9'-3"	8'-1"	9'-9"	8'-10"	7'-9"	9'-0"	8'-2"	7'-2"	
358SW10 (362S162-118)	L240	28'-1"	25'-6"	22'-3"	19'-5"	17'-8"	15'-5"	17'-8"	16'-1"	14'-0"	16'-5"	14'-11"	13'-0"	15'-5"	14'-0"	12'-3"	14'-8"	13'-4"	11'-7"	14'-0"	12'-9"	11'-1"	13'-0"	11'-10"	10'-2"	
	L360	24'-6"	22'-3"	19'-5"	17'-0"	15'-5"	13'-6"	15'-5"	14'-0"	12'-3"	14'-4"	13'-0"	11'-4"	13'-6"	12'-3"	10'-8"	12'-10"	11'-7"	10'-2"	12'-3"	11'-1"	9'-8"	11'-4"	10'-4"	9'-0"	
	L600	20'-8"	18'-9"	16'-5"	14'-4"	13'-0"	11'-4"	13'-0"	11'-10"	10'-4"	12'-1"	11'-0"	9'-7"	11'-4"	10'-4"	9'-0"	10'-9"	9'-10"	8'-7"	10'-4"	9'-4"	8'-2"	9'-7"	8'-8"	7'-7"	
4" Members																										
4CW20 (400S137-33)	L240	19'-8"	17'-10"	15'-7"	13'-8"	12'-5"	10'-8"	12'-5"	11'-3"	9'-2"	11'-6"	10'-1"	8'-3"	10'-8"	9'-2"	7'-6"	9'-10"	8'-6"	6'-11"	9'-2"	8'-0"	6'-6"	8'-3"	7'-1"	5'-10"	
	L360	17'-2"	15'-7"	13'-8"	11'-11"	10'-10"	9'-5"	10'-10"	9'-10"	8'-7"	10'-0"	9'-1"	7'-11"	9'-5"	8'-7"	7'-6"	9'-0"	8'-2"	6'-11"	8'-7"	7'-9"	6'-6"	7'-11"	7'-1"	5'-10"	
	L600	14'-6"	13'-2"	11'-6"	10'-0"	9'-1"	7'-11"	9'-1"	8'-3"	7'-3"	8'-5"	7'-8"	6'-8"	7'-11"	7'-3"	6'-4"	7'-7"	6'-10"	6'-0"	7'-3"	6'-7"	5'-9"	6'-8"	6'-1"	5'-4"	
4CW18 (400S137-43)	L240	21'-6"	19'-6"	17'-1"	14'-11"	13'-6"	11'-10"	13'-6"	12'-3"	10'-9"	12'-7"	11'-5"	9'-8"	11'-10"	10'-9"	8'-10"	11'-3"	10'-0"	8'-2"	10'-9"	9'-5"	7'-8"	9'-8"	8'-5"	6'-10"	
	L360	18'-9"	17'-1"	14'-11"	13'-0"	11'-10"	10'-4"	11'-10"	10'-9"	9'-4"	10'-11"	9'-11"	8'-8"	10'-4"	9'-4"	8'-2"	9'-9"	8'-11"	7'-9"	9'-4"	8'-6"	7'-5"	8'-8"	7'-11"	6'-10"	
	L600	15'-10"	14'-4"	12'-7"	10'-11"	9'-11"	8'-8"	9'-11"	9'-0"	7'-11"	9'-3"	8'-5"	7'-4"	8'-8"	7'-4"	6'-11"	8'-3"	7'-6"	6'-6"	7'-11"	7'-2"	6'-3"	7'-4"	6'-8"	5'-10"	
4CW16 (400S137-54)	L240	23'-1"	21'-0"	18'-4"	16'-0"	14'-6"	12'-8"	14'-6"	13'-2"	11'-6"	13'-6"	12'-3"	10'-8"	12'-8"	11'-6"	9'-11"	12'-1"	10'-11"	9'-3"	11'-6"	10'-6"	8'-7"	10'-8"	9'-5"	7'-8"	
	L360	20'-2"	18'-4"	16'-0"	14'-0"	12'-8"	11'-1"	12'-8"	11'-6"	10'-1"	11'-9"	10'-8"	9'-4"	11'-1"	10'-1"	8'-9"	10'-6"	9'-2"	8'-4"	10'-1"	9'-2"	8'-0"	9'-4"	8'-6"	7'-5"	
	L600	17'-0"	15'-5"	13'-6"	11'-9"	10'-8"	9'-4"	10'-8"	9'-9"	8'-6"	9'-11"	9'-0"	7'-10"	9'-4"	8'-6"	7'-5"	8'-10"	8'-1"	7'-0"	8'-6"	7'-8"	6'-9"	7'-10"	7'-2"	6'-3"	
4CW14 (400S137-68)	L240	24'-9"	22'-6"	19'-7"	17'-2"	15'-7"	13'-7"	15'-7"	14'-2"	12'-4"	14'-5"	13'-1"	11'-5"	13'-7"	12'-4"	10'-9"	12'-11"	11'-9"	11'-9"	12'-4"	11'-3"	9'-8"	11'-5"	10'-5"	8'-8"	
	L360	21'-7"	19'-7"	17'-2"	15'-0"	13'-7"	11'-10"	13'-7"	12'-4"	10'-9"	12'-7"	11'-5"	10'-0"	11'-10"	10'-9"	9'-5"	11'-3"	10'-3"	8'-11"	10'-9"	9'-9"	8'-7"	10'-0"	9'-1"	7'-11"	
	L600	18'-3"	16'-6"	14'-5"	12'-7"	11'-5"	10'-0"	11'-5"	10'-5"	9'-1"	10'-8"	9'-8"	8'-5"	10'-0"	9'-1"	7'-11"	9'-6"	8'-8"	7'-6"	9'-1"	8'-3"	7'-2"	8'-5"	7'-8"	6'-8"	
4SW20 (400S162-33)	L240	20'-8"	18'-9"	16'-4"	14'-3"	13'-0"	11'-4"	13'-0"	11'-9"	9'-11"	12'-1"	10'-10"	8'-10"	11'-4"	9'-11"	8'-1"	10'-7"	9'-2"	7'-6"	9'-11"	8'-7"	7'-0"	8'-10"	7'-8"	6'-3"	
	L360	18'-0"	16'-4"	14'-3"	12'-6"	11'-4"	9'-11"	11'-4"	10'-4"	9'-0"	10'-6"	9'-7"	8'-4"	9'-11"	9'-0"	7'-10"	9'-5"	8'-6"	7'-5"	9'-0"	8'-2"	7'-0"	8'-4"	7'-7"	6'-3"	
	L600	15'-2"	13'-10"	12'-1"	10'-6"	9'-7"	8'-4"	9'-7"	8'-8"	7'-7"	8'-10"	8'-1"	7'-0"	8'-4"	7'-7"	6'-7"	7'-11"	7'-2"	6'-3"	7'-7"	6'-11"	6'-0"	7'-0"	6'-5"	5'-7"	
4SW18 (400S162-43)	L240	22'-6"	20'-6"	17'-10"	15'-7"	14'-2"	12'-5"	14'-2"	12'-10"	11'-3"	13'-2"	11'-11"	10'-5"	12'-5"	11'-3"	9'-6"	11'-9"	10'-8"	8'-10"	11'-3"	10'-1"	8'-3"	10'-5"	9'-1"	7'-5"	
	L360	19'-8"	17'-10"	15'-7"	13'-8"	12'-5"	10'-10"	12'-5"	11'-3"	9'-10"	11'-6"	10'-5"	9'-1"	10'-10"	9'-10"	8'-7"	10'-3"	9'-4"	8'-2"	9'-10"	8'-11"	7'-9"	9'-1"	8'-3"	7'-3"	
	L600	16'-7"	15'-1"	13'-2"	11'-6"	10'-5"	9'-1"	10'-5"	9'-6"	8'-3"	9'-8"	8'-10"	7'-8"	9'-1"	8'-3"	7'-3"	8'-8"	7'-10"	6'-10"	8'-3"	7'-6"	6'-7"	7'-8"	7'-0"	6'-1"	
4SW16 (400S162-54)	L240	24'-3"	22'-0"	19'-2"	16'-9"	15'-3"	13'-4"	15'-3"	13'-10"	12'-1"	14'-2"	12'-10"	11'-3"	13'-4"	12'-1"	10'-7"	12'-8"	11'-6"	9'-11"	12'-1"	11'-0"	9'-3"	11'-3"	10'-2"	8'-4"	
	L360	21'-2"	19'-2"	16'-9"	14'-8"	13'-4"	11'-7"	13'-4"	12'-1"	10'-7"	12'-4"	11'-3"	9'-10"	11'-7"	10'-7"	9'-3"	11'-0"	10'-0"	8'-9"	10'-7"	9'-7"	8'-4"	9'-10"	8'-11"	7'-9"	
	L600	17'-10"	16'-2"	14'-2"	12'-4"	11'-3"	9'-10"	11'-3"	10'-2"	8'-11"	10'-5"	9'-5"	8'-3"	9'-10"	8'-11"	7'-9"	9'-4"	8'-5"	7'-4"	8'-11"	8'-1"	7'-1"	8'-3"	7'-6"	6'-6"	
4SW14 (400S162-68)	L240	25'-11"	23'-7"	20'-7"	18'-0"	16'-4"	14'-3"	16'-4"	14'-10"	12'-11"	15'-2"	13'-9"	12'-0"	14'-3"	12'-11"	11'-4"	13'-7"	12'-4"	10'-9"	12'-11"	11'-9"	10'-3"	12'-0"	10'-11"	9'-3"	
	L360	22'-8"	20'-7"	18'-0"	15'-8"	14'-3"	12'-5"	14'-3"	12'-11"	11'-4"	13'-3"	12'-0"	10'-6"	12'-5"	11'-4"	9'-11"	11'-10"	10'-9"	9'-5"	11'-4"	10'-3"	9'-0"	10'-6"	9'-6"	8'-4"	
	L600	19'-1"	17'-4"	15'-2"	13'-3"	12'-0"	10'-6"	12'-0"	10'-11"	9'-6"	11'-2"	10'-2"	8'-10"	10'-6"	9'-6"	8'-4"	10'-0"	9'-1"	7'-11"	9'-6"	8'-8"	7'-7"	8'-10"	8'-0"	7'-0"	
4SW12 (400S162-97)	L240	28'-8"	26'-1"	22'-9"	19'-11"	18'-1"	15'-9"	18'-1"	16'-5"	14'-4"	16'-9"	15'-3"	13'-4"	15'-9"	14'-4"	12'-6"	15'-0"	13'-7"	11'-11"	14'-4"	13'-0"	11'-4"	13'-4"	12'-1"	10'-7"	
	L360	25'-1"	22'-9"	19'-11"	17'-4"	15'-9"	13'-9"	15'-9"	14'-4"	12'-6"	14'-8"	13'-4"	11'-7"	13'-9"	12'-6"	10'-11"	13'-1"	11'-11"	10'-5"	12'-6"	11'-4"	9'-11"	11'-7"	10'-7"	9'-2"	
	L600	21'-2"	19'-2"	16'-9"	14'-8"	13'-4"	11'-7"	13'-4"	12'-1"	10'-7"	12'-4"	11'-3"	9'-9"	11'-7"	10'-7"	9'-2"	11'-0"	10'-0"	8'-9"	10'-7"	9'-7"	8'-4"	9'-9"	8'-11"	7'-9"	
4SW10 (400S162-118)	L240	30'-5"	27'-8"	24'-2"	21'-1"	19'-2"	16'-9"	19'-2"	17'-5"	15'-2"	17'-9"	16'-2"	14'-1"	16'-9"	15'-2"	13'-3"	15'-11"	14'-5"	12'-7"	15'-2"	13'-10"	12'-7"	14'-1"	12'-10"	11'-2"	
	L360	26'-7"	24'-2"	21'-1"	18'-5"	16'-9"	14'-7"	16'-9"	15'-2"	13'-3"	15'-6"	14'-1"	12'-4"	14'-7"	13'-3"	11'-7"	13'-10"	12'-7"	11'-0"	13'-3"	12'-1"	10'-6"	12'-4"	11'-2"	9'-9"	
	L600	22'-5"	20'-4"	17'-9"	15'-6"	14'-1"	12'-4"	14'-1"	12'-10"	11'-2"	13'-1"	11'-11"	10'-5"	12'-4"	11'-2"	9'-9"	11'-8"	10'-7"	9'-3"	11'-2"	10'-2"	8'-10"	10'-5"	9'-5"	8'-3"	
6" Members																										
6CW20 (600S137-33)	L240	27'-5"	24'-11"	21'-9"	19'-0"	17'-3"	15'-0"	17'-3"	15'-8"	12'-11"	16'-0"	14'-2"	11'-7"	15'-0"	12'-11"	10'-7"	13'-10"	12'-0"	9'-9"	12'-11"	11'-3"	9'-2"	11'-7"	10'-0"	8'-2"	
	L360	24'-0"	21'-9"	19'-0"	16'-7"	15'-1"	13'-2"	15																		

LIMITING HEIGHTS (FT)



Limiting Height Tables

Table with columns for Member, MIW Type (SSMA), Deflection, and Wind Load & Spacing (5 PSF, 15 PSF, 20 PSF, 25 PSF, 30 PSF, 35 PSF, 40 PSF, 50 PSF). Rows are categorized by member size: 6" Members, 8" Members, and 10" Members. Each member size includes sub-rows for different MIW types (e.g., 6SW20, 6SW18, etc.) and their respective limiting heights for various deflection levels (12" o.c., 16" o.c., 24" o.c.).

* - Exceeds the H/T ratio of 200 See notes on page 8

Limiting Height Tables

Member		Wind Load & Spacing																							
MIW Type (SSMA)	Deflection	5 PSF			15 PSF			20 PSF			25 PSF			30 PSF			35 PSF			40 PSF			50 PSF		
		12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.	12"o.c.	16"o.c.	24"o.c.
12" Members																									
12SW16* (1200S162-54)	L240	59'-0"	53'-8"	46'-10"	40'-11"	37'-2"	32'-0"	37'-2"	33'-9"	27'-8"	34'-6"	30'-4"	24'-9"	32'-0"	27'-8"	22'-7"	29'-7"	25'-8"	20'-11"	27'-8"	24'-0"	19'-7"	24'-9"	21'-5"	17'-6"
	L360	51'-7"	46'-10"	40'-11"	35'-9"	32'-6"	28'-4"	32'-6"	29'-6"	25'-9"	30'-2"	27'-5"	23'-11"	28'-4"	25'-9"	22'-6"	26'-11"	24'-6"	20'-11"	25'-9"	23'-5"	19'-7"	23'-11"	21'-5"	17'-6"
	L600	43'-6"	39'-6"	34'-6"	30'-2"	27'-5"	23'-11"	27'-5"	24'-10"	21'-9"	25'-5"	23'-1"	20'-2"	23'-11"	21'-9"	19'-0"	22'-9"	20'-8"	18'-0"	21'-9"	19'-9"	17'-3"	20'-2"	18'-4"	16'-0"
12SW14 (1200S162-68)	L240	63'-5"	57'-8"	50'-4"	44'-0"	39'-11"	34'-11"	39'-11"	36'-4"	31'-8"	37'-1"	33'-8"	29'-3"	34'-11"	31'-8"	26'-8"	33'-2"	30'-1"	24'-8"	31'-8"	28'-4"	23'-1"	29'-3"	25'-4"	20'-8"
	L360	55'-5"	50'-4"	44'-0"	38'-5"	34'-11"	30'-6"	34'-11"	31'-8"	27'-8"	32'-5"	29'-5"	25'-8"	30'-6"	27'-8"	24'-2"	28'-11"	26'-4"	23'-0"	27'-8"	25'-2"	22'-0"	25'-8"	23'-4"	20'-5"
	L600	46'-9"	42'-6"	37'-1"	32'-5"	29'-5"	25'-8"	29'-5"	26'-9"	23'-4"	27'-4"	24'-10"	21'-8"	25'-8"	23'-4"	20'-5"	24'-5"	22'-2"	19'-4"	23'-4"	21'-3"	18'-6"	21'-8"	19'-8"	17'-2"
12SW12 (1200S162-97)	L240	70'-8"	64'-2"	56'-1"	49'-0"	44'-6"	38'-10"	44'-6"	40'-5"	35'-4"	41'-4"	37'-6"	32'-9"	38'-10"	35'-4"	30'-10"	36'-11"	33'-7"	29'-4"	35'-4"	32'-1"	28'-0"	32'-9"	29'-9"	26'-0"
	L360	61'-9"	56'-1"	49'-0"	42'-9"	38'-10"	33'-11"	38'-10"	35'-4"	30'-10"	36'-1"	32'-9"	28'-8"	33'-11"	30'-10"	26'-11"	32'-3"	29'-4"	25'-7"	30'-10"	28'-0"	24'-6"	28'-8"	26'-0"	22'-9"
	L600	52'-1"	47'-4"	41'-4"	36'-1"	32'-9"	28'-8"	32'-9"	29'-9"	26'-0"	30'-5"	27'-8"	24'-2"	28'-8"	26'-0"	22'-9"	27'-2"	24'-8"	21'-7"	26'-0"	23'-8"	20'-8"	24'-2"	21'-11"	19'-2"
12SW10 (1200S162-118)	L240	75'-5"	68'-6"	59'-10"	52'-3"	47'-6"	41'-6"	47'-6"	43'-2"	37'-8"	44'-1"	40'-1"	35'-0"	41'-6"	37'-8"	32'-11"	39'-5"	35'-10"	31'-3"	37'-8"	34'-3"	29'-11"	35'-0"	31'-9"	27'-9"
	L360	65'-11"	59'-10"	52'-3"	45'-8"	41'-6"	36'-3"	41'-6"	37'-8"	32'-11"	38'-6"	35'-0"	30'-7"	36'-3"	32'-11"	28'-9"	34'-5"	31'-3"	27'-4"	32'-11"	29'-11"	26'-1"	30'-7"	27'-9"	24'-3"
	L600	55'-7"	50'-6"	44'-1"	38'-6"	35'-0"	30'-7"	35'-0"	31'-9"	27'-9"	32'-8"	29'-6"	25'-9"	30'-7"	27'-9"	24'-3"	29'-0"	26'-4"	23'-0"	27'-9"	25'-3"	22'-0"	25'-9"	23'-5"	20'-5"

* = Exceeds the H/T ratio of 200

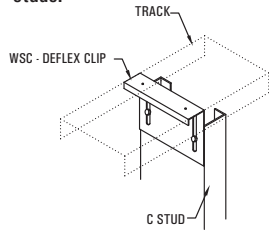
DEFLEX CLIP

The Deflex Slide Clips allow for up to 1-1/2" vertical floor or roof deflection without the use of laborious slip tracks it can be installed with or without standard leg tracks. Simple and fast to install which saves time and money. Two sizes available for 3-5/8", 4", 6" and 8" studs.

MATERIAL: 16 ga (54 mil) 50ksi.

FINISH: Galvanized – G90

- 3T1000 accommodates 3-5/8" and 4" stud widths
- 6T1000 accommodates 6" and 8" stud widths

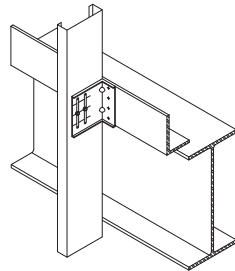


WSC SLIDE CLIP

WSC Slide clips connect exterior curtainwall studs to the building structure and allow for vertical movement of the building independent of the studs. The new WSC series allows for 3" total deflection, 1-1/2" up and 1-1/2" down. WSC series 14 ga. clips come with extended leg lengths and shouldered screws are provided in each box of clips. 25 pieces per box.

MATERIAL: See Table

FINISH: Galvanized – G90



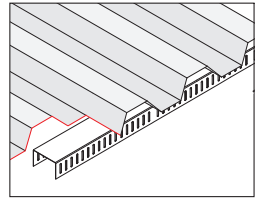
SLOTTED SLIP TRACK (SLT) CEMCO

Slotted Track manufactured by CEMCO and distributed by MarinoWARE is used at the head of wall and can absorb up to 1" of total vertical movement while providing a positive attachment for wall framing. The positive attachment allows for greater load resistance with thinner gauges of material.

MATERIAL: 20ga (33 mil-33ksi), 18ga (43 mil-33ksi), 16ga (54 mil- 50ksi), 14ga (68 mil - 50ksi)

WEB SIZES: 2-1/2", 3-5/8", 4", 6", 8"

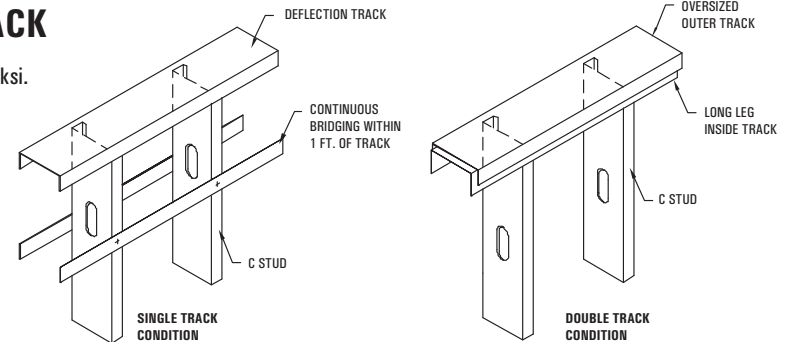
FINISH: G60-18ga & 16ga, G40-20ga



DEFLECTION TRACK

MATERIAL: 16 ga (54 mil) 50ksi.

FINISH: Galvanized – G40 or equivalent



Deflection Track Notes:

1. Curtain wall deflection tracks may be required to accommodate the deflection of floor beams or floor decks above curtain wall or interior partitions. Deflection tracks cannot be used in axial load bearing stud conditions or above continuous windows spandrels.
2. Deflection track details must be designed for the specific conditions of a building to accommodate the required deflection and the end reactions of the studs. The deep leg tracks are not standard and the gauge width and leg height must be specified for each particular application. All detailing and connections should be specified by a qualified engineer or architect.
3. Deflection track 16ga and heavier must be 50 ksi steel.