

# MaxTrak with structural wall framing selection guide:

Based on your projects wall framing condition:

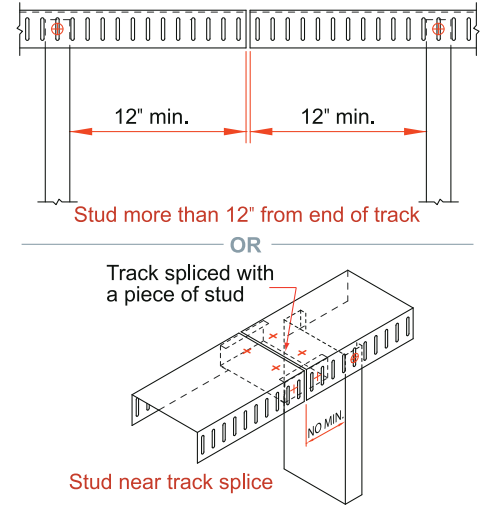
1. Select framing condition: Field framing or End of track location.
2. Select: Interior framing or Exterior framing.
3. Select lateral load (wind pressure psf).
4. Select wall stud spacing.
5. Match MaxTrak thickness to meet wall height limit.

## Framing Condition #1: Field framing

(single stud more than 12" from end of track or single stud near track splice)

Interior framing — Maximum wall heights									
Section thickness	5 psf			10 psf			15 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.
33mil (20ga)	50'-0"	46'-9"	31'-2"	31'-2"	23'-4"	15'-7"	20'-9"	15'-7"	10'-4"
43mil (18ga)	50'-0"	50'-0"	41'-0"	41'-0"	30'-9"	20'-6"	27'-3"	20'-6"	13'-7"
54mil (16ga)	50'-0"	50'-0"	50'-0"	50'-0"	50'-0"	36'-0"	48'-0"	36'-0"	24'-0"
68mil (14ga)	50'-0"	50'-0"	50'-0"	50'-0"	50'-0"	50'-0"	50'-0"	50'-0"	35'-9"
Exterior framing — Maximum wall heights									
Section thickness	20 psf			25 psf			30 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.
33mil (20ga)	15'-7"	11'-8"	—	12'-5"	9'-4"	—	10'-4"	—	—
43mil (18ga)	20'-6"	15'-4"	10'-3"	16'-4"	12'-3"	8'-2"	13'-7"	10'-3"	—
54mil (16ga)	36'-0"	27'-0"	18'-0"	28'-9"	21'-7"	14'-4"	24'-0"	18'-0"	12'-0"
68mil (14ga)	53'-8"	40'-3"	26'-10"	42'-11"	32'-2"	21'-5"	35'-9"	26'-10"	17'-10"

### Framing Condition #1:

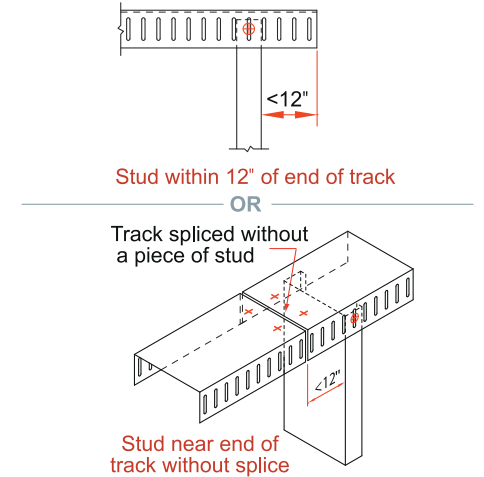


## Framing Condition #2: End of track location

(single stud within 12" of end of track or track without track splice)

Interior framing — Maximum wall heights									
Section thickness	5 psf			10 psf			15 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.
33mil (20ga)	40'-0"	30'-0"	20'-0"	20'-0"	15'-0"	10'-0"	13'-4"	10'-0"	—
43mil (18ga)	50'-0"	39'-10"	26'-7"	26'-7"	19'-11"	13'-3"	17'-8"	13'-3"	8'-10"
54mil (16ga)	50'-0"	50'-0"	47'-4"	47'-4"	35'-6"	23'-8"	31'-7"	23'-8"	15'-9"
68mil (14ga)	50'-0"	50'-0"	50'-0"	50'-0"	50'-0"	35'-6"	47'-4"	35'-6"	23'-8"
Exterior framing — Maximum wall heights									
Section thickness	20 psf			25 psf			30 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.
33mil (20ga)	10'-0"	—	—	8'-0"	—	—	—	—	—
43mil (18ga)	13'-3"	9'-11"	—	10'-7"	—	—	8'-10"	—	—
54mil (16ga)	23'-8"	17'-9"	11'-10"	18'-11"	14'-2"	9'-5"	15'-9"	11'-10"	—
68mil (14ga)	35'-6"	26'-7"	17'-9"	28'-4"	21'-3"	14'-2"	23'-8"	17'-9"	11'-10"

### Framing Condition #2:



\*For conditions where the stud thickness is less than the MaxTrak system, stud web crippling and screw pullout must be checked. Additional charts with these conditions are available at [clarkwestern.com](http://clarkwestern.com).

#### Table notes:

1. The minimum wall stud thickness must be equal to the selected slotted track thickness.
2. Screws must be located 1-1/4" from the track web. (At MaxTrak's center guideline)
3. #8 minimum wafer head screws shall be used for 33 mil material sections.
4. #10 minimum wafer head screws shall be used for 43 mil and thicker sections.
5. 33 & 43 mil material shall have a yield strength equal or greater than 33 ksi.
6. 54 & 68 mil material shall have a yield strength equal or greater than 50 ksi.
7. The values in these tables apply to the depths of members from 2-1/2" to 8".
8. Wall heights for interior framing are limited to 50'-0".
9. The values are based on a single stud for worst case. Multiple studs are acceptable.
10. The values are the same for the MaxTrak and MaxTrak 2D system. Screw pull through in the vertical slot controlled in testing.
11. Span = [ 2 x Allowable Load ] / [ Pressure(psf) x Stud Spacing(ft) ]

Allowable lateral loads		
Section thickness	Framing location	
	Framing condition #1	Framing condition #2
33mil (20ga)	156 lbs.	100 lbs.
43mil (18ga)	205 lbs.	133 lbs.
54mil (16ga)	360 lbs.	237 lbs.
68mil (14ga)	537 lbs.	355 lbs.