

T110 Superior Lift System

The Dayton Superior T110 Superior Lift Insert consists of a forged foot anchor, 4-leg wire base and plastic void former. The insert is positioned with the void direction toward the top of the panel and then is tied in place to the rebar cage. The T120 Superior Lifting Hardware allows quick attachment to the insert and remote ground release after panel has been erected and braced. The T110 Superior Lift Inserts are shipped assembled, ready to go and are sized 1/8" less than the panel thickness.



T110 Superior Lift System



To Order:

Specify: (1) Quantity, (2) Name, (3) Panel Thickness, (4) bottom face aggregate or formliner thickness

Example:

150, T110 Superior Lift Inserts, 9" Panel with 1/2" formliner panel

Structural Panel Thickness	Anchor Length	Tension 2:1 2500psi	Shear 2:1 2500psi	Tension 2:1 3000psi	Shear 2:1 3000psi	Tension 2:1 3500psi	Shear 2:1 3500psi	Tension 2:1 4000psi	Shear 2:1 4000psi
5	3.625	11,600	12,400	12,700	13,580	13,720	14,660	14,670	15,680
5.5	4.125	13,000	13,400	14,240	14,670	15,380	15,840	16,440	16,940
6	4.625	14,300	14,800	15,660	16,210	16,900	17,500	18,080	18,720
6.5	5.125	15,700	16,400	17,190	17,960	18,560	19,400	19,850	20,740
7	5.625	17,150	18,000	18,790	19,710	20,280	21,280	21,700	22,760
7.25	5.875	17,910	18,800	19,620	20,590	21,200	22,240	22,660	23,780
7.5	6.125	18,680	19,600	20,460	21,470	22,100	23,180	23,630	24,000
8	6.625	20,210	20,940	22,140	22,940	23,900	24,000	24,000	24,000
8.5	7.125	21,730	21,370	23,800	23,410	24,000	24,000	24,000	24,000
9	7.625	23,250	22,870	24,000	24,000	24,000	24,000	24,000	24,000
9.25	7.875	24,000	22,970	24,000	24,000	24,000	24,000	24,000	24,000
9.5	7.875	24,000	22,970	24,000	24,000	24,000	24,000	24,000	24,000
10	7.875	24,000	22,970	24,000	24,000	24,000	24,000	24,000	24,000
10.5	7.875	24,000	22,970	24,000	24,000	24,000	24,000	24,000	24,000
11	7.875	24,000	22,970	24,000	24,000	24,000	24,000	24,000	24,000
11.25	7.875	24,000	22,970	24,000	24,000	24,000	24,000	24,000	24,000
11.5	7.875	24,000	22,970	24,000	24,000	24,000	24,000	24,000	24,000
12	7.875	24,000	22,970	24,000	24,000	24,000	24,000	24,000	24,000

*Minimum edge distance is 15"

T110 Safe Working Loads with T46 HD at 18" Spacing

Structural Panel Thickness	Tension	Shear
	f'c=2,500 psi 2:1 S.F.	f'c=2,500 psi 2:1 S.F.
5"	23,200 lbs.	24,800 lbs.
5.5"	26,000 lbs.	26,800 lbs.
6"	28,600 lbs.	28,800 lbs.
6.5"	31,400 lbs.	30,600 lbs.
7" or greater	32,000 lbs.	32,000 lbs.

When using pairs of T110 anchors in up to 6.5" concrete panel thickness, the two shear cones will not intersect when they're spaced 18" apart (shear cone radius is typically 1.5x the depth of the anchor foot). For use with the T46 HD Special Spreader Bar. For deeper/thicker installations, the interaction between the two anchors would begin reducing the combined capacity to less than 2 times a single anchor. However, the 32,000 lb. capacity of the T46 will cap the system beyond 6.5" panel thickness (2 x 15,700 lbs.) to a maximum of 16,000 lbs. per anchor.

Note: The two anchors should be secured to each other and the rebar reinforcing grid at the required 18" on center spacing by wire tying with 2-40" length of #4 rebar either side of the anchors shafts or order double T110 inserts that come assembled at 18" o.c.

Note: The short length of rebar recommended is an aid to prevent the insert from moving during concrete placement. When this rebar is added for insert stability, it should be placed against the vertical portion of the insert and at least 1" away from the insert's foot.