

TECHNICAL DATA SHEET

DESCRIPTION

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 the 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. Optional T110BP (Base Plates) are available for insulated panel applications.

APPLICATION

The T110 is installed in concrete tilt-up panels and used for lifting applications. The T110BP (Base Plates) can be added for insulated panel applications to prevent the insert from piercing into the insulation.



*T110BP (Base Plates) Ordered Separately

TECHNICAL DATA

Structural Panel Thickness	Anchor Size	Edge Distance		
		15"		30"
		SWL (lbs) Tension	SWL (lbs) Shear	SWL (lbs) Shear
5	4.125	9500	9600	11340
5.5	4.125	11500	9900	13760
6	4.625	13600	10350	16340
6.5	5.125	15000	10980	19060
7	5.625	16500	11200	21920
7.25	5.875	17200	12000	22750
7.5	6.125	17800	12400	23140
8	6.625	21800	13900	23900
8.5	7.125	22800	15500	24000
9	7.625	23800	16740	24000
9.25	7.875	24000	17400	24000
9.5	7.875	24000	17400	24000
10	7.875	24000	17400	24000
10.5	7.875	24000	17400	24000
11	7.875	24000	17400	24000
11.25	7.875	24000	17400	24000
11.5	7.875	24000	17400	24000
12	7.875	24000	17400	24000

- Safe Working Load (SWL) provides a factor of safety of approximately 2 to 1 in 3,000 psi normal weight concrete.
- Maximum tension values limited to 12-Tons in conjunction with compatible lifting hardware.
- The information presented in this table was compiled in conjunction with concrete testing and the design calculation criteria outlined in ACI 318-19 Chapter 17.
- Contact Dayton Superior Technical Assistance for shear loads for inserts located near an edge smaller than in the table.

RELATED PRODUCTS

- T120 Lifting Hardware
- T110BP Base Plate
- T110E Edge Lift

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ORDERING INFORMATION

T110 - SUPERIOR LIFT INSERT

Product Code	Description	Weight
127777	5" STRUCTURAL PANEL THICKNESS	2.20 LB
127203	5-1/2" STRUCTURAL PANEL THICKNESS	2.25 LB
127195	6" STRUCTURAL PANEL THICKNESS	2.35 LB
127196	6-1/4" STRUCTURAL PANEL THICKNESS	2.40 LB
127197	6-1/2" STRUCTURAL PANEL THICKNESS	2.45 LB
144009	6-3/4" STRUCTURAL PANEL THICKNESS	2.55 LB
127198	7" STRUCTURAL PANEL THICKNESS	2.70 LB
127199	7-1/4" STRUCTURAL PANEL THICKNESS	2.80 LB
127200	7-1/2" STRUCTURAL PANEL THICKNESS	2.80 LB
127201	8" STRUCTURAL PANEL THICKNESS	2.90 LB
127356	8-1/4" STRUCTURAL PANEL THICKNESS	2.98 LB
127355	8-1/2" STRUCTURAL PANEL THICKNESS	3.05 LB
129170	8-3/4" STRUCTURAL PANEL THICKNESS	3.12 LB
127358	9" STRUCTURAL PANEL THICKNESS	3.17 LB
127202	9-1/4" STRUCTURAL PANEL THICKNESS	3.22 LB
127357	9-1/2" STRUCTURAL PANEL THICKNESS	3.28 LB
129171	9-3/4" STRUCTURAL PANEL THICKNESS	4.40 LB
127360	10" STRUCTURAL PANEL THICKNESS	3.30 LB
127778	10-1/4" STRUCTURAL PANEL THICKNESS	3.35 LB
127359	10-1/2" STRUCTURAL PANEL THICKNESS	3.35 LB
127363	11" STRUCTURAL PANEL THICKNESS	3.40 LB
127362	11-1/4" STRUCTURAL PANEL THICKNESS	3.41 LB
127361	11-1/2" STRUCTURAL PANEL THICKNESS	3.42 LB
127354	12" STRUCTURAL PANEL THICKNESS	3.44 LB

T110BP - BASE PLATE

Product Code	Description	Weight
102139	T110BP Base Plates	0.15 LB

MANUFACTURER

Dayton Superior Corporation
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Miamisburg, OH 45342
Customer Service: 888-977-9600
Technical Services: 877-266-7732
Website: www.daytonsuperior.com

WARRANTY (ACCESSORIES)

Limited Warranty. Dayton warrants, for a period of 60 days from the date of shipment (three years from the date of shipment in the case of formwork, excluding any consumable Products included with such formwork), that Products and any associated application drawings and engineering services provided by Dayton ("Ancillary Services") will be free from defects in material and workmanship and, in the case of custom designed formwork, that the formwork will meet the specifications set forth in the design drawings approved by Dayton and Customer. Any claim under this warranty must be made in writing within such warranty period. If any Product and/or Ancillary Service covered by a timely claim are found to be defective, Dayton will, within a reasonable time, make any necessary repairs or corrections or, at Dayton's option, replace the Product. Unless pre-authorized by Dayton in writing, Dayton will not accept any charges for correcting defects or accept the return of any Product. This warranty will not apply to any Products that have been subjected to misuse, neglect, storage damage, misapplication, accident or any other damage caused by any person other than Dayton, or that have not been maintained in accordance with Dayton's specifications. THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES AS TO THE PRODUCTS AND ANCILLARY SERVICES. DAYTON MAKES NO OTHER WARRANTIES OR GUARANTEES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE. THE REMEDIES SET FORTH IN THIS SECTION ARE CUSTOMER'S EXCLUSIVE REMEDY FOR BREACH OF WARRANTY.