

TECHNICAL DATA SHEET

DESCRIPTION

The Dayton Superior T275 Tilt-Up Anchor consists of a dual forged foot anchor assembled with a plastic recess plug and two plastic supports. The insert is a directional insert used parallel to the height of the panel. The T275 inserts are shipped assembled, ready to install and sized to the panel thickness.

APPLICATION

The T275 is installed in concrete tilt up panels and used for lifting applications.



T275 with Base

FEATURES

- T275 features easy to remove lid and LEAVE-IN VOIDFORMER for fast and easy attachment of lifting hardware.
- The 12-ton T120 Lifting Hardware allows for quick attachment to the insert and remote ground release after the panel has been erected and braced.
- Minimum edge distance is 15".
- Can be used with Base Plates in insulated sandwich panels.
- Available Patch Cap to cover anchor voids.
- Dayton Superior recommends using Recrete 5, Recrete 20, HD 25 or Perma Patch VO repair mortars for T275 insert patching. Freeze-thaw testing was conducted per ASTM C-666

TECHNICAL DATA

T275 Safe Working Loads

Structural Panel Thickness	Anchor Size	Edge Distance		
		15"		30"
		SWL (lbs) Tension	SWL (lbs) Shear	SWL (lbs) Shear
5	3.75	9,700	11,000	15,000
6	3.75	9,700	11,000	15,250
7.25	6	16,750	13,250	24,000
8	6	16,750	13,750	24,000
8.5	6	16,750	14,750	24,000
9	6	16,750	14,750	24,000
9.25	8	23,500	14,750	24,000
10	8	23,500	15,500	24,000
11.25	8	23,500	16,750	24,000
12	8	23,500	17,000	24,000

2X T275 Safe Working Loads with T46HD at 18" Spacing

Structural Panel Thickness	Anchor Size	Edge Distance		
		15"		30"
		SWL (lbs) Tension	SWL (lbs) Shear	SWL (lbs) Shear
5	3.75	15,990	16,680	24,180
6	3.75	15,990	16,710	26,380
7.25	6	27,500	18,700	29,060
8	6	27,500	19,370	30,480
8.5	6	27,500	20,660	31,390
9	6	27,500	20,750	32,000
9.25	8	32,000	20,780	32,000
10	8	32,000	21,770	32,000
11.25	8	32,000	23,500	32,000
12	8	32,000	23,830	32,000

The following footnotes apply to both load tables above:

- Safe Working Load (SWL) provides a factor of safety of approximately 2 to 1 in 3,000 psi normal weight concrete.
- The information presented in this table was compiled in conjunction with ASTM E488 testing and the design calculation criteria outlined in ACI 318-19 Chapter 17.
- Maximum tension values limited to corresponding lifting hardware.
- Mechanical capacity of steel anchor is 69,000 lbs in shear and 64,800 lbs in tension.
- Minimum edge distance opposite the shear load direction only required to be 15". All other directions shall meet or exceed listed values.
- Contact Dayton Superior Technical Assistance for shear loads for inserts located near an edge smaller than in the table.

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INSTALLATION

1. The T275 Insert's location in the panel is easily found by locating the antennae which will project through the surface of the concrete.
2. Using an ordinary claw hammer, tap lightly around the antennae, breaking through the thin skin of concrete to expose the insert.
3. Drive the claws of the hammer down and pry up on the lid until it pops up.
4. Lid should now be easily removed, exposing the insert and leave-in voidformer.
5. No clean up required around the insert. The insert is now ready to receive the lifting hardware.

RELATED PRODUCTS

- T120 Lifting Clutch
- T110 Superior Lifting Inserts
- T275B Base Plate (PCN=100037)
- T275P Patch Cap (PCN=146576)

ORDERING INFORMATION

Product Code	Description	Weight
146469	T275 - 5" Panel Thickness; Plain	1.94 LB
146470	T275 - 5.25" Panel Thickness; Plain	1.94 LB
146471	T275 - 5.5" Panel Thickness; Plain	1.95 LB
146472	T275 - 5.75" Panel Thickness; Plain	1.96 LB
146473	T275 - 6" Panel Thickness; Plain	1.97 LB
146474	T275 - 6.25" Panel Thickness; Plain	1.98 LB
146475	T275 - 6.5" Panel Thickness; Plain	1.99 LB
146476	T275 - 6.75" Panel Thickness; Plain	2.00 LB
146676	T275 - 7" Panel Thickness; Plain	2.01 LB
146553	T275 - 7.25" Panel Thickness; Plain	2.46 LB
146554	T275 - 7.5" Panel Thickness; Plain	2.46 LB
146555	T275 - 7.75" Panel Thickness; Plain	2.47 LB
146556	T275 - 8" Panel Thickness; Plain	2.47 LB
146557	T275 - 8.25" Panel Thickness; Plain	2.48 LB
146558	T275 - 8.5" Panel Thickness; Plain	2.48 LB
146559	T275 - 8.75" Panel Thickness; Plain	2.49 LB
146560	T275 - 9" Panel Thickness; Plain	2.50 LB
146561	T275 - 9.25" Panel Thickness; Plain	2.96 LB
146562	T275 - 9.5" Panel Thickness; Plain	2.96 LB
146563	T275 - 9.75" Panel Thickness; Plain	2.97 LB
146564	T275 - 10" Panel Thickness; Plain	2.98 LB
146565	T275 - 10.25" Panel Thickness; Plain	1.75 LB
146566	T275 - 10.5" Panel Thickness; Plain	2.99 LB
146567	T275 - 10.75" Panel Thickness; Plain	2.25 LB
146568	T275 - 11" Panel Thickness; Plain	3.00 LB
146569	T275 - 11.25" Panel Thickness; Plain	3.00 LB
146570	T275 - 11.5" Panel Thickness; Plain	3.01 LB
146571	T275 - 11.75" Panel Thickness; Plain	3.25 LB
146572	T275 - 12" Panel Thickness; Plain	3.02 LB
100037	T275 - Base Plate	0.04 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.