

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

Concrete Strength/Safety Factor	Safe Working Load	Structural Panel Thickness (lbs)			
		7-1/4" - 9"	9-1/4" - 12"	T275 Safe Working Loads w/ T46HD at 18" spacing	
				7-1/4" - 9" 2X T-275 w/ T-46HD	9-1/4" - 12" 2X T-275 w/ T-46HD
2,500 psi concrete and 2.1 SF	Tension	20,100	24,000	25,925	30,950
	Shear	24,000	24,000	30,950	30,950
3,000 psi concrete and 2.1 SF	Tension	22,050	24,000	28,440	30,950
	Shear	24,000	24,000	30,950	30,950
3,000 psi concrete and 2.5:1 SF	Tension	17,639	24,000	22,750	30,950
	Shear	24,000	24,000	30,950	30,950
3,000 psi concrete and 4:1 SF	Tension	11,024	15,718	14,220	20,275
	Shear	15,299	17,250	19,735	22,250
4,000 psi concrete and 4:1 SF	Tension	12,731	16,200	16,420	20,895
	Shear	17,250	17,250	22,250	22,250

Note: Mechanical Capacity of steel anchor is 69,000 lbs. in shear and 64,800 lbs in tension.

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

AVAILABLE EXCLUSIVELY THROUGH CERTIFIED DAYTON

SUPERIOR TILT-UP DEALERS

Product Code	Description	Weight
146553	7.25" STRUCTURAL PANEL THICKNESS	2.455 LB
146554	7.5" STRUCTURAL PANEL THICKNESS	2.461 LB
146555	7.75" STRUCTURAL PANEL THICKNESS	2.467 LB
146556	8" STRUCTURAL PANEL THICKNESS	2.473 LB
146557	8.25" STRUCTURAL PANEL THICKNESS	2.479 LB
146558	8.5" STRUCTURAL PANEL THICKNESS	2.483 LB
146559	8.75" STRUCTURAL PANEL THICKNESS	2.489 LB
146560	9" STRUCTURAL PANEL THICKNESS	2.500 LB
146561	9.25" STRUCTURAL PANEL THICKNESS	2.957 LB
146562	9.5" STRUCTURAL PANEL THICKNESS	2.863 LB
146563	9.75" STRUCTURAL PANEL THICKNESS	2.969 LB
146564	10" STRUCTURAL PANEL THICKNESS	2.975 LB
146565	10.25" STRUCTURAL PANEL THICKNESS	1.750 LB
146566	10.5" STRUCTURAL PANEL THICKNESS	2.99 LB
146567	10.75" STRUCTURAL PANEL THICKNESS	2.25 LB
146568	11" STRUCTURAL PANEL THICKNESS	2.997 LB
146569	11.25" STRUCTURAL PANEL THICKNESS	3.003 LB
146570	11.5" STRUCTURAL PANEL THICKNESS	3.009 LB
146571	11.75" STRUCTURAL PANEL THICKNESS	3.250 LB
146572	12" STRUCTURAL PANEL THICKNESS	3.019 LB

TECHNICAL DATA SHEET**MANUFACTURER**

Dayton Superior Corporation
1125 Byers Road
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.