

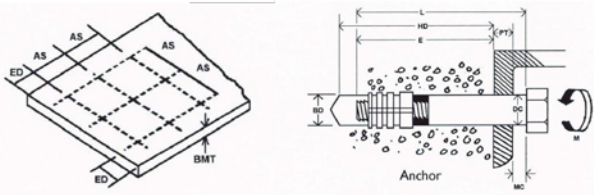
TECHNICAL DATA SHEET

DESCRIPTION

The T13T Concrete Fastener is a two-component, expansion-type anchor designed for applications where a high-strength concrete anchor is required. When the anchor is placed into a drilled hole, the expander nut bears against the sides of the hole and, as the anchor is turned, the nut expands parallel to the sides of the hole. Because the bolt and expander nut really become one integral part, this differs from most concrete anchors in that it can be considered in the same class as general fasteners, i.e., a nut and bolt. Its performance, therefore, can be correlated to general fastener data more reliably than with any other type of concrete anchor. The ability to utilize forces such as clamp, tension, torque, and pre-load significantly aid the design and anchor selection process.

APPLICATION

The Dayton Superior T13T Taper Bolt is designed for use in the floor slabs of tilt up building to attach and anchor wall braces. Additional uses include fastening stadium seating, pallet racking, conveyers and highway guard rails.



FEATURES

- Controlled friction of tapered expander nut
- Reusable
- Tapered threads
- Withstands vibratory loads
- Warning: Do not use in brick or block

BENEFITS

- Consistency of setting torque
- Permits re-torquing
- High vibration loads
- Expander nut remains in hold for possible reuse
- Bolt may be reused several times
- Increased area of compression results in uniform clamp load
- Better grip in concrete

TECHNICAL DATA

HOW TO REMOVE A TAPER BOLT:

When removal is necessary, simply unscrew the bolt. The bolt can then be re-inserted and torqued to its original holding power. The expander nut remains in the concrete like a cast-in place insert.

HOW TO RE-USE A TAPER BOLT:

1. After removing bolt, clean threads with a wire brush to remove dust and debris.
2. To get maximum performance and more re-uses, lubricate threads with wax or heavy grease.
3. Add a new expander nut.

TECHNICAL DATA

	3/4" x 4-1/8"	3/4" x 5-1/2"	3/4" x 8"
Product Code			
BD Bit Diameter	0.787 x 0.775"	0.787 x 0.775"	0.787 x 0.775"
M Torque	250 Ft. Lbs.	250 Ft. Lbs.	250 Ft. Lbs.
BMT Slab Thickness	4-1/8"	5-1/2"	8"
HD Mi. Hole Depth	4-1/4"	5-5/8"	8-1/8"
E Min. Embedment Depth	3-3/8"	4-3/4"	7-1/4"
ED Minimum Edge Distance	5"	5"	12"
PT Max. Thickness of Component Fastened	3/4"	3/4"	3/4"
DC Min. Clearance Hole	13/16"	13/16"	13/16"
MC Head Clearance	7/16"	7/16"	7/16"
ED Min. Spacing Distance Required	5"	5"	12"
SWL 3,000 psi Concrete			
Safe Working Load Tension	5,953	5,953	8,518
Safe Working Load Shear	13,958	13,958	13,958
SWL 5,000 psi Concrete			
Safe Working Load Tension	8,536	8,536	10,241
Safe Working Load Shear	14,055	14,055	14,055

Safe working load provides a factor of safety of approximately 2 to 1

INSTALLATION

1. DRILL

Drill hole diameter 0.775" to 0.787" using fixture as a template. Taper bolt works in bottomless hole.

NOTE: Use drill bit conforming to ANSI B212.15.94

HAMMER

Drive Taper Bolt into place leaving recommended head clearance. If hole is over-sized, simply remove and pre-expand the expander nut to fit hole.

TIGHTEN

Tighten Taper Bolt to 250 ft. lbs. The bolt may be set with an impact wrench.

HOW TO ORDER

Specify: (1) Quantity, (2) Name, (3) Product Code

ORDERING INFORMATION

Product Code	Description	Weight
143724	3/4" NOM DIA X 4-1/8"; EMBEDMENT DEPTH=3-3/8"	.6 LB
143723	3/4" NOM DIA X 5-1/2"; EMBEDMENT DEPTH=4-3/4"	.8 LB
145454	3/4" NOM DIA X 8"; EMBEDMENT DEPTH=7-1/4"	.85 LB
143722	EXTRA SLEEVE	.05 LB

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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.