

## TECHNICAL DATA SHEET

### DESCRIPTION

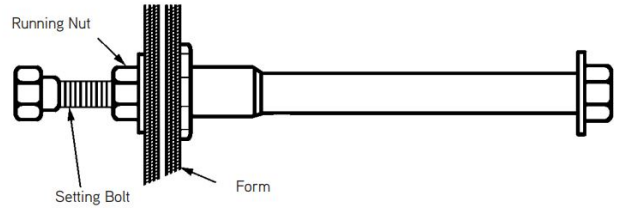
The Dayton Superior F54 Ductile Embed Insert is a one-piece, integrally hot-forged unit fabricated out of smooth, round steel meeting ASTM A-29 Hot Rolled Grade 1045 requirements.

### APPLICATION

Use as a cast-in-place insert or in a core and grout insert application.

Several inserts can be laced and/or templated together to provide preset anchorage patterns for closely-spaced, multiple insert requirements.

The user can nail or bolt the insert to side forms or wet set in face of panel as required.



### FEATURES

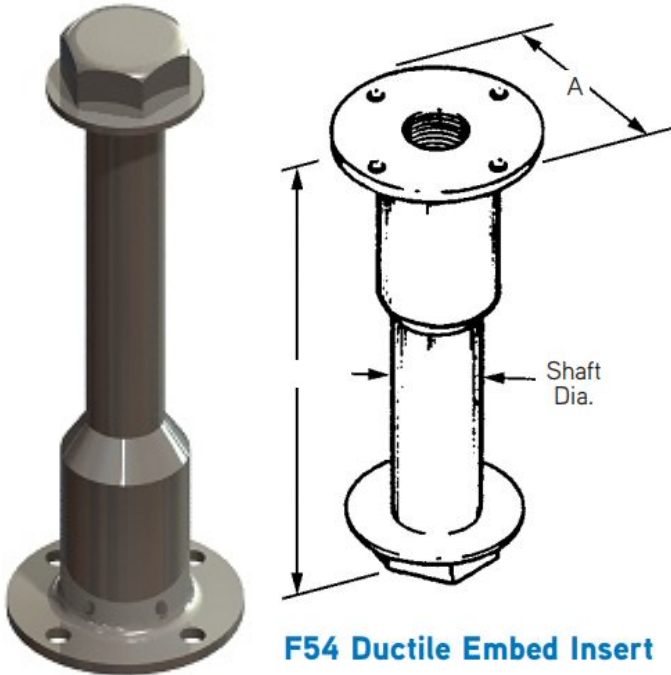
- Insert top has a round washer face with four nail holes.
- The bottom end has a forged, washer-face hex foot to resist pullout from the concrete.
- Longer insert lengths are available when required.
- Available plain, electro-galvanized, hot-dipped galvanized or epoxy coated as required.

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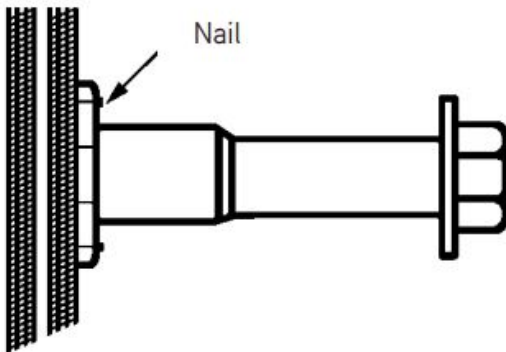
Safe Working Loads provide a factor of safety of approximately 3 to 1 in 3,000 psi normal weight concrete.

Minimum spacing between inserts is twice the corner distance.

Note: Bolt diameter is 1/8" less shaft diameter all products.



F54 Ductile Embed Insert Selection Table								
Bolt Diameter & Threads per Inch	Shaft Diameter	Insert Length	SWL - Tension (lbs)	SWL - Shear (lbs)	Minimum Edge Distance	Minimum Corner Distance	Flange Diameter "A"	Maximum Bolt Engagement
5/8" - 11 NC	3/4"	7-1/2"	6,700	4,310	7-1/2"	15"	2"	15/16"
			9,030	5,420	10"	18"		
3/4" - 10 NC	7/8"	9"	8,800	5,890	9"	18"	2-1/4"	1-1/8"
			13,360	8,020	14"	20"		
7/8" - 9 NC	1"	10-1/2"	11,150	8,050	10-1/2"	18"	2-3/8"	1-5/16"
			18,350	11,090	16"	24"		
1" - 8 NC	1-1/8"	12"	13,790	10,160	12"	24"	2-1/2"	1-1/2"
			22,980	14,540	18"	30"		
1-1/4" - 7 NC	1-3/8"	15"	19,960	15,570	15"	30"	3-1/4"	1-7/8"
			33,150	20,340	24"	36"		



### MANUFACTURER

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**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.