

F-54 Ductile Embed Insert

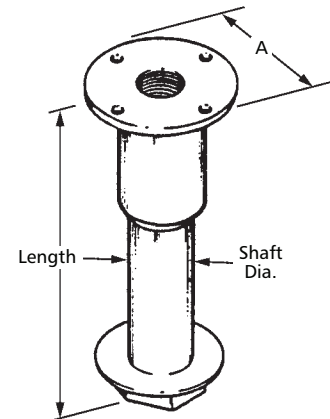
The Dayton Superior F-54 Ductile Embed Insert is a one-piece, integrally hot forged unit fabricated out of smooth, round steel meeting ASTM A-29 Hot Rolled Grade 1045 requirements.

Insert top has a round washer face with four nail holes. The user can nail or bolt the insert to side forms or wet set in face of panel as required. The bottom end has a forged, washer-face hex foot to resist pullout from the concrete.

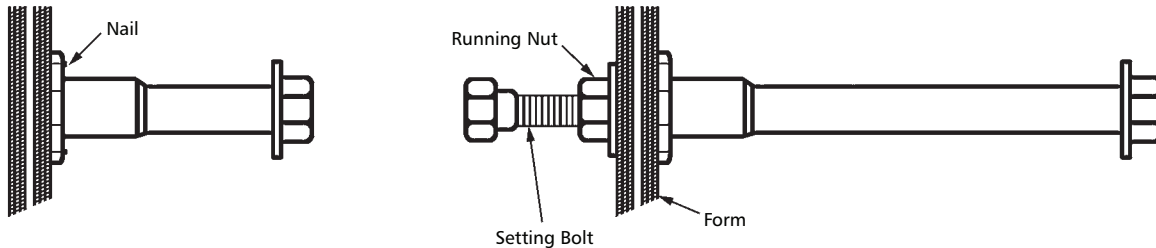
Use as a cast-in-place insert or in a core and grout insert application. Several inserts can be laced and/or templated together to provide preset anchorage patterns for closely-spaced multiple insert requirements.

Longer insert lengths are available when required. Minimum spacing between the inserts, shown in the chart, is twice the minimum corner distance.

Available plain, electro-galvanized, hot-dipped galvanized or epoxy coated as required.



F-54 Ductile Embed Insert



To Order:

Specify: (1) quantity, (2) name, (3) shaft diameter, (4) overall length.

Example:

550, F-54 Ductile Embed Insert, 3/4" x 9" long.

F-54 Ductile Embed Insert Selection Chart								
Bolt Diameter and Threads per Inch	Shaft Diameter	Insert Length	Safe Working Load Tension	Safe Working Load Shear	Minimum Edge Distance	Minimum Corner Distance	Flange Diameter "A"	Maximum Bolt Engagement
5/8" – 11 NC	3/4"	7-1/2"	6,700 lbs.	4,310 lbs.	7-1/2"	15"	2"	15/16"
			9,030 lbs.	5,420 lbs.	10"	18"		
3/4" – 10 NC	7/8"	9"	8,800 lbs.	5,890 lbs.	9"	18"	2-1/4"	1-1/8"
			13,360 lbs.	8,020 lbs.	14"	20"		
7/8" – 9 NC	1"	10-1/2"	11,150 lbs.	8,050 lbs.	10-1/2"	18"	2-3/8"	1-5/16"
			18,350 lbs.	11,090 lbs.	16"	24"		
1" – 8 NC	1-1/8"	12"	13,790 lbs.	10,160 lbs.	12"	24"	2-1/2"	1-1/2"
			22,980 lbs.	14,540 lbs.	18"	30"		
1-1/4" – 7 NC	1-3/8"	15"	19,960 lbs.	15,570 lbs.	15"	30"	3-1/4"	1-7/8"
			33,150 lbs.	20,340 lbs.	24"	36"		

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

Safe Working Loads are based on 1/2" setback from the face of concrete.

Minimum spacing between inserts is twice the corner distance.

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