

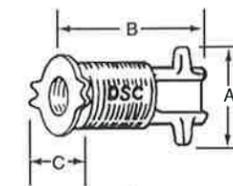
NC Threaded Inserts

For Suspending, Connecting and Anchoring to Concrete

F-5 Threaded Insert

The Dayton Superior F-5 Threaded Inserts have National Course (NC) threads and are recommended for use under permanent loading conditions. This insert has been approved by the Board of Standards and Appeals for use in New York City under Calendar No. 447-60SM.

The F-5 insert is cast from ductile iron that meets ASTM A-395, Grade 60-40-18.



F-5 Threaded Insert

To Order:
Specify: (1) quantity, (2) name, (3) bolt diameter.
Example:
200, F-5 Threaded Inserts, 3/4" bolt diameter.

Bolt Diameter and Threads per Inch	Tension Safe Working Load	Bolt Engagement	A	B	C
1/2" - 13	1,500 lbs.	15/16"	1-5/8"	2-1/2"	1-5/8"
5/8" - 11	2,000 lbs.	3/4"	1-5/8"	3"	1-5/8"
3/4" - 10	2,500 lbs.	7/8"	1-13/16"	3"	1-7/8"
7/8" - 9	3,000 lbs.	1-5/16"	2-1/2"	3-3/8"	2-5/8"
1" - 8	3,000 lbs.	1-5/16"	2-1/2"	3-3/8"	2-5/8"

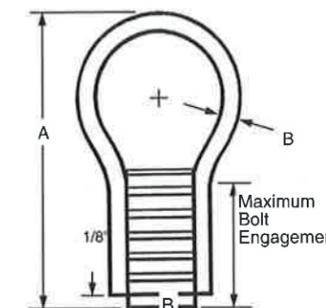
Safe Working Load provides a factor of safety of approximately 3 to 1 when the insert is properly embedded in 3,000 psi normal weight concrete.

F-42 Loop Ferrule Insert

The Dayton Superior F-42 Loop Ferrule Insert is fabricated by welding a looped strut to a closed-end ferrule. F-42 insert is available in the sizes shown in the chart below and is well suited for structural connections and the suspension of equipment, piping, etc.

Minimum spacing between inserts is twice the minimum corner distance.

To Order:
Specify: (1) quantity, (2) name, (3) bolt diameter.
Example:
200, F-42 Loop Ferrule Inserts, 3/4" bolt diameter.



F-42 Loop Ferrule Insert

Bolt Diameter and Threads per Inch	Minimum Edge Distance	Minimum Corner Distance	Safe Working Load Tension	Safe Working Load Shear	Maximum Bolt Engagement	A	B
1/4" - 20 NC	5"	5"	650 lbs.	650 lbs.	3/4"	2-3/4"	0.243"
3/8" - 16 NC	5"	5"	2,000 lbs.	1,260 lbs.	3/4"	2-3/4"	0.243"
	10"	15"	2,000 lbs.	2,000 lbs.			
1/2" - 13 NC	5"	5"	2,000 lbs.	1,280 lbs.	1"	2-3/4"	0.243"
	7"	10"	2,000 lbs.	2,000 lbs.			
5/8" - 11 NC	5"	7"	2,200 lbs.	1,990 lbs.	1-1/8"	3-1/2"	0.258"
	8"	8"	2,200 lbs.	2,200 lbs.			
3/4" - 10 NC	5"	7"	2,200 lbs.	1,990 lbs.	1-1/8"	3-1/2"	0.258"
	8"	8"	2,200 lbs.	2,200 lbs.			
7/8" - 9 NC	8"	8"	5,300 lbs.	4,060 lbs.	1-1/8"	6"	0.375"
	10"	15"	5,300 lbs.	5,300 lbs.			
1" - 8 NC	8"	8"	5,300 lbs.	4,060 lbs.	1-1/8"	6"	0.375"
	10"	15"	5,300 lbs.	5,300 lbs.			

Safe Working Load provides 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 face of concrete.

SHOP DRAWING REVIEW

REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

REJECTED REVISE AND RESUBMIT APPROVED AS NOTED

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DID NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING THEIR WORK WITH THAT OF ALL OTHER TRADES; AND PERFORMING THEIR WORK IN A SAFE AND SATISFACTORY MANNER.

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Job Number: 120174
 Reviewed by: SRB
 Date: 07/09/2015

Vermont Agency of Transportation

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ON: July 7, 2015

and Checked for

CONFORMANCE

BY: T Sumner DATE: 07/09/2015