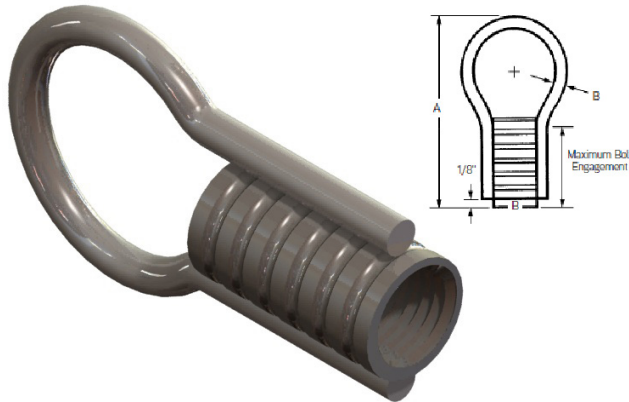


TECHNICAL DATA SHEET

This is the insert used at the top plate connection during the April 16, 2015 test. It has very similar properties to a MeadowBurke FX-2 loop. Therefore, it appears that the INDOT standard drawing can specify strength requirements rather than specify a product.

DESCRIPTION

The Dayton Superior F42 Loop Ferrule Insert is fabricated by welding a loop strut to a closed-end ferrule and is well suited for structural connections and the suspension of equipment, piping, etc.



FEATURES

- Available in Plain, Electro Galvanized and Type 304 Stainless Steel Finishes.
- 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.
- Minimum spacing between inserts is twice the minimum corner distance.

TECHNICAL DATA

F42 Loop Ferrule Insert Selection Chart							
Bolt Diameter & Threads per Inch	Min Edge Distance	Min Corner Distance	SWL Tension	SWL Shear	Max 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"	2,000 lbs.	1,990 lbs.	1-1/8"	3-1/2"	0.258"
	5"	7"	2,000 lbs.	2,000 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.

ORDERING INFORMATION

NC THREADS

Product Code	Description	Weight
49669	1/4" PLAIN 20NC	0.13 LB
49670	3/8" PLAIN 16NC	0.14 LB
49671	1/2" PLAIN 13NC	0.16 LB
49672	5/8" PLAIN 11NC	0.27 LB
49673	3/4" PLAIN 10NC	0.30 LB
49675	7/8" PLAIN 9NC	0.48 LB
49674	1" PLAIN 8NC	0.83 LB
49650	1/4" ELECTRO GALV. 20NC	0.15 LB
49651	3/8" ELECTRO GALV. 16NC	0.12 LB
49652	1/2" ELECTRO GALV. 13NC	0.16 LB
49653	5/8" ELECTRO GALV. 11NC	0.28 LB
49654	3/4" ELECTRO GALV. 10NC	0.31 LB
49655	7/8" ELECTRO GALV. 9NC	0.48 LB
49656	1" ELECTRO GALV. 8NC	0.80 LB
49615	3/8" STAINLESS STEEL 16NC	0.13 LB
49618	1/2" STAINLESS STEEL 13NC	0.17 LB
49620	5/8" STAINLESS STEEL 11NC	0.26 LB
49623	3/4" STAINLESS STEEL 10NC	0.32 LB
49625	1" STAINLESS STEEL 8NC	0.80 LB

MANUFACTURER

Dayton Superior Corporation
1125 Byers Road
Miamisburg, OH 45342
Customer Service: 888-977-9600
Technical Services: 877-266-7732
Website: www.daytonsuperior.com

Actual test conditions were 6" spacing and 5" edge distance, neither of which are acceptable based on chart values. Use min. value shown on chart for standard drawing requirements. Ultimate shear capacity = $4.06 \text{ k} \times 3 = 12.1 \text{ kips}$

TECHNICAL DATA SHEET**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.



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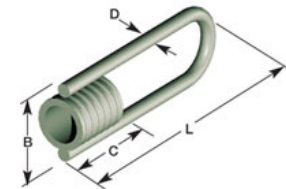
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FX-2 FERRULE INSERT – STRAIGHT LOOP

The FX-2 Ferrule Insert – Straight Loop is a versatile insert commonly used for structural connections and as an anchor for suspension of pipes and/or other mechanical equipment. Refer to the table for bolt diameters and lengths available. The insert is available in plain, electro plated or stainless steel finish.



FX-2 FERRULE INSERT - STRAIGHT LOOP DATA										
Bolt Diameter	Length L	SWL (Tension)	SWL (Shear)	Mechanical SWL	B	C	Number of Struts	Wire Diameter	Edge Distance (Tension)	Edge Distance (Shear)
in.	in.	lbs.	lbs.	lbs.	in.	in.	in.	in.	in.	in.
1/2"	4 1/8"	3000	2600	3000	1 1/16	1 3/8	2	0.225	7	9
1/2"	6 1/8"	4000	4000	4900	1 1/4	1 3/8	2	0.306	10	10
5/8"	4 1/8"	3000	2600	3000	1 1/4	1 5/8	2	0.225	7	9
5/8"	6 1/8"	5000	4000	6000	1 9/16	1 5/8	2	0.375	10	10
3/4"	4 1/8"	3000	3000	4900	1 3/8	1 5/8	2	0.225	7	10
3/4"	6 1/8"	5000	5600	6000	1 11/16	1 5/8	2	0.375	10	12
7/8"	6 1/8"	5000	5600	6000	2	1 1/8	2	0.375	10	12
1"	6 1/8"	5000	6000	6000	2 1/8	1 5/8	2	0.375	10	12
1"	8 1/8"	6000	6000	6000	2 1/8	1 5/8	2	0.375	13	13

1. SWL based on 3000 psi concrete compression strength.
2. SWL includes a 3:1 safety factor.
3. Inserts must have a 1/2" setback.
4. Minimum edge distance apply to 2 edges only. All other edges require 2x length of the insert.
5. Minimum corner distance shall be 1.5x minimum edge distance for shear when loaded towards the edge.

Design properties are very similar to Dayton-Superior F42 loops.

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