

Pro-Shield Thermal Hanger Shield Fig. PROSHIELD



Description

Pro-Shields are 360° thermal hanger shields designed to meet the broadest range of pipe support applications. They provide a continuous section of insulation with factory applied jacketing meeting ASTM E 96A (maximum 0.02 perm) through a wide variety of pipe hangers for pipe systems operating between +20° F. and +1200° F. The insulation and jacketing extend beyond the galvanized steel shield for a neatly sealed joint with the adjoining insulation. Pro-Shields are suitable for use in any type of clamp as well as in band-type hangers and on flat surfaces. To assure proper support in all situations, high density 450 PSI inserts are installed in units for 10" pipe with 1" insulation thickness and in all units for 12" pipe and larger. Pro-Shields meet the MSS standard for a Type 40 shield per MSS SP-58, Paragraph 7.63 – 7.66. Pro-Shields Meet ASTM E84 Standards Flame Spread-5-, smoke developed-5-. Rounded shield corners on all commercial size units.

Dimensions

	1/2" to 1 1/2"	2" to 5"	6" to 8"	10" to 12"	14" to 18"	20" to 24"
Insulation Length	6"	6"	9"	9"	12"	9"
	150 mm	150 mm	230 mm	230 mm	300 mm	230 mm
Shield Length	4"	4"	6"	6"	10"	6"
	100 mm	100 mm	150 mm	150 mm	250 mm	150 mm
Shield Gauge	22 ga.	22 ga.	18 ga.	18 ga.	12 ga.	18 ga.
	0.9 mm	0.9 mm	1.3 mm	1.3 mm	2.8 mm	1.3 mm
Compressive Strength	100 PSI	100 PSI	100 PSI	Cal Sil 100 PSI Insert 450 PSI	Cal Sil 100 PSI Insert 450 PSI	360° Insert 450 PSI

Specifications

Applications:

- For indoor use on clamping support systems, flat surfaces, clevis or other band-type hangers (see WeatherShield Upgrade submittal for outdoor use).
- Pipe sizes 16 inch and larger in clevis or two bolt hangers only.
- Chilled to steam piping and dual temperature lines.
- Hanger spans per MSS SP-58 Table A3.
- Available for pipe 1/2 inch through 24 inches, insulation thickness 1/2 inch (to 6" pipe) through 4 inches.

Materials/Construction:

- 100 PSI Calcium silicate meeting ASTM C-533 Type 1, C-585, C-795, E-84, Thermal Conductivity ('k')=.40 @ 75° F.
- Adhesive complying with NFPA 90-A, ASTM E-84
- G-90 Galvanized steel shield, small check per ASTM A-653 (replaces A-527). Rounded corners for safety.
- Factory applied jacketing meeting ASTM E 96A (maximum 0.02 perm), ASTM D-774, D-828 and E-84,
- Structural insert (12" pipe and larger) minimum 450 PSI calcium silicate meeting ASTM C-656 Type II, Grade 5, C-795 and E-84
- All units and components are asbestos free and 100% made and assembled in the U.S.A.



PROJECT INFORMATION	APPROVAL STAMP
Project:	Approved
Address:	Approved as noted
Contractor:	Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

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Allowal Loads – Recommended Spans

	Clevis	Trapeze
2" – 2½" Pipe	275 lbs. 10 ft. (3.0 m)	145 lbs. 10 ft. (3.0 m)
3" Pipe	340 lbs. 10 ft. (3.0 m)	160 lbs. 10 ft. (3.0 m)
4" Pipe	380 lbs. 10 ft. (3.0 m)	170 lbs. 10 ft. (3.0 m)
6" Pipe	605 lbs. 10 ft. (5.2 m)	330 lbs. 10 ft. (3.0 m)
8" Pipe	800 lbs. 10 ft. (3.0 m)	510 lbs. 10 ft. (3.0 m)
10" Pipe	1,160 lbs. 10 ft. (6.7 m)	830 lbs. 10 ft. (3.0 m)
12" Pipe	1,400 lbs. 10 ft. (3.0 m)	1,175 lbs. 10 ft. (3.0 m)
14" Pipe	1,800 lbs. 10 ft. (3.0 m)	1,250 lbs. 10 ft. (3.0 m)
16" Pipe	2,600 lbs. 10 ft. (3.0 m)	See Max Span R.H.
18" Pipe	3,300 lbs. 10 ft. (3.0 m)	See Max Span R.H.
20" Pipe	8,000 lbs. 10 ft. (3.0 m)	See Max Span R.H.
24" Pipe	9,500 lbs. 10 ft. (3.0 m)	See Max Span R.H.

Material Specifications

- Calcium Silicate, 100 PSI Meeting ASTM C-533 Type 1, C-585, C-795 and E-84, Flame Spread -0-, Smoke Developed -0-.
- High Compressive Strength Inserts, 450 PSI, Standard For Pipe 12" and Larger, Meeting ASTM C-656 Type II Grade 5, C-585, C-795, E-72, and E-84, Flame Spread -0-, Smoke Developed -0-. 20" Pipe and larger are 360° of this material.
- Vapor Barrier Jacket of Non-Reactive Polyester Meeting ASTM D-744, D-828, C 1136, E 96 and e 84 Flame Spread -5-, Smoke Developed -5-.
- Adhesive Complying to NFPA 90-A and ASTM E-84, Flame Spread -10-, Smoke Developed -0-.
- Galvanized Steel Shields, G-90 Small Check per ASTM A-653 (Replaces A-527).
- 100% American-Made Components and Construction.
- Asbestos-Free Materials.
- Unit Tested to ASTM E-84. Rated Flame Spread -5-, Smoke Developed -5-.