

Chill-Shield Z.P. Thermal Hanger Shield Fig. CHILLSHIELDZP



Description

The Chill-Shield Z.P. thermal hanger shield is similar to the Chill-Shield. Both are 360 degree units designed for low temperature systems. The Chill-Shield Z.P. incorporates a zero perm factory applied jacketing to comply with the most stringent requirements of cryogenic systems. The Chill-Shield Z.P. units are suitable for use in any type of clamp as well as in all band-type hangers.

Specifications

Applications:

- For indoor or outdoor use on clamping support systems, clevis or band-type hangers.
- Low temperature tubing systems to minus 250° F.
- Hanger spans per MSS SP-69 Table 5.
- Available for pipe sizes 1/2 inch through 24 inches.

Materials/Construction:

- 360° Polyisocyanurate 24 PSI material—Thermal Conductivity ('k') .19 @ 75° mean, 80PSI or 140 PSI material—Thermal Conductivity ('k') .20 @ 75° F. mean. Meeting ASTM D-1621, D-1622, D-1623, C-203, C-518 and E-84, Flame Spread -25-, Smoke Developed -450-.
- 360° Zero perm jacket, VentureClad 1577 CW meeting ASTM E-96, UL 723 Flame Spread -10-, Smoke Developed -20-.
- Adhesive complying with NFPA 90-A & ASTM E-84, Flame Spread -10-, Smoke Developed -0-.
- G-90 Galvanized steel shield, small check per ASTM A-653 (replaces A-527).
- All units 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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Dimensions

	5/8" Tube to 1 1/2" Pipe	2 1/8" Tube to 3 1/8" Tube	3" Pipe	4 1/8" Tube	4" Pipe	5 1/8" Tube	5" Pipe	6 1/8" Tube	6" & 8" Pipe 8 1/8" Tube	10" to 24" Pipe
Insulation Length	6"	6"	6"	6"	6"	6"	6"	9"	9"	
Shield Length	4"	4"	4"	4"	4"	4"	4"	6"	6"	Call Sales
Shield Gauge	22 ga.	20 ga.	20 ga.	20 ga.	20 ga.	20 ga.	20 ga.	16 ga.	16 ga.	
Compression Strength	24 PSI	24 PSI	40 PSI	24 PSI	40 PSI	24 PSI	40 PSI	24 PSI	40 PSI	

Allowable Loads – MSS Recommended Spans* – Tube

	Load/Span	Water Svc.		Load/Span	Water Svc.		Load/Span	Water Svc.
5/8" Tube	16.4 # / 5 ft.*	#/ft. – .51	1 5/8" Tube	42.5 # / 7 ft.*	#/ft. – 1.91	4 1/8" Tube	108.0 # / 10 ft.	#/ft. – 10.1
7/8" Tube	22.9 # / 5 ft.*	#/ft. – .66	2 1/8" Tube	55.6 # / 8 ft.*	#/ft. – 3.1	5 1/8" Tube	134.2 # / 10 ft.	#/ft. – 15.7
1 1/8" Tube	29.5 # / 6 ft.*	#/ft. – 1.01	2 5/8" Tube	68.7 # / 8 ft.*	#/ft. – 4.6	6 1/8" Tube	240.5 # / 10 ft.	#/ft. – 21.8
1 3/8" Tube	36.0 # / 7 ft.*	#/ft. – 1.43	3 1/8" Tube	81.8 # / 9 ft.*	#/ft. – 6.3	8 1/8" Tube	510.5 # / 10 ft.	#/ft. – 39.5

Allowable Loads – MSS Recommended Spans* – Pipe

	Load/Span	Water Svc.		Load/Span	Water Svc.		Load/Span	Water Svc.	10" to 24"
1/2" Pipe	22.0 # / 7 ft.*	#/ft. – .98	1 1/2" Pipe	49.7 # / 9 ft.*	#/ft. – 3.6	4" Pipe	188.5 # / 10 ft.	#/ft. – 16.3	
3/4" Pipe	27.5 # / 7 ft.*	#/ft. – 1.36	2" Pipe	62.2 # / 10 ft.	#/ft. – 5.1	5" Pipe	233.0 # / 10 ft.	#/ft. – 23.3	Call Sales
1" Pipe	34.4 # / 7 ft.*	#/ft. – 2.1	2 1/2" Pipe	120.4 # / 10 ft.	#/ft. – 7.9	6" Pipe	416.3 # / 10 ft.	#/ft. – 31.5	
1 1/4" Pipe	43.5 # / 7 ft.*	#/ft. – 2.9	3" Pipe	146.6 # / 10 ft.	#/ft. – 10.8	8" Pipe	542.0 # / 10 ft.	#/ft. – 50.3	

* Designates MSS Maximum Span

Material Specifications

- Polyisocyanurate, 24 to 40 PSI Meeting ASTM C-203, C-518, C-585, C-795, D-1621, D-1622, D-1623, and E-84. Flame Spread/Smoke Developed – 25/450.
- Insert material on 10" pipe and larger will have compressive strength to match design requirements.
- Zero Perm Vapor Barrier Jacket VentureClad 1577 CW. Meets ASTM E-96, UL 723 Flame Spread -10-. S,ple Developed -20-.
- Non-Flamable, Water Based Adhesive Complying to NFPA 90-A.
- Galvanized Steel Shields, G-90 Small Check per ASTM A-653 (replaces A-527).
- 100% American-Made Components and Construction.
- Asbestos-Free Materials.