

Pro-Shield for Aquatherm Pipe Fig. Aquatherm



Description

PP-R Pro-Shields are 360° thermal hanger shields custom cut for Perfect ID match to metric PP-R OD's. They are designed to meet a broad range of pipe support applications while providing a continuous section of insulation and factory applied jacketing meeting ASTM E 96A (maximum 0.02 perm) through a variety of pipe hangers. These units are appropriate across the entire PP-R temperature range. On all units the insulation and jacketing extend beyond the galvanized steel shield for neatly sealed joint with the adjoining insulation. Units are suitable for use in any type of clamp as well as in band-type hangers and on flat surfaces. PP-R Pro-Shields meet the MSS standard for a Type 40 shield per MSS SP-58, Paragraph 7.63 – 7.66. PP-R Pro-Shields meet ASTM Standards Flame Spread-5-, Smoked Developed -5-.

Material Specifications

Applications

- For indoor use on clamping support systems, flat surfaces, clevis or other band-type hangers (see WeatherShield Upgrade submittal for outdoor use).
- Hanger spans per MSS SP-58 Table A3.
- Available for pipe 20mm through 450mm with insulation thicknesses 1", 1-½" and 2".

Materials / Construction

- Minimum 100 PSI Calcium silicate meeting ASTM C-533 Type 1, C-795, E-84, E-84, Thermal Conductivity ('k') .40 @ 75° mean.
- 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.
- 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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Dimensions

	20 mm to 50 mm	63 mm to 125 mm	160 mm to 315 mm	335 mm to 450 mm
Insulation Length	6" 150 mm	6" 150 mm	9" 230 mm	12" 300mm
Shield Length	4" 100 mm	4" 100 mm	6" 150 mm	10" 250mm
Shield Gauge	22 ga. 0.9 mm	22 ga. 1.0 mm	18 ga. 1.3 mm	18 ga. 1.3 mm
Compression Strength	100 PSI	100 PSI	100 PSI	100 PSI

Allowable Loads (Lbs) – Recommended Spans

	Clevis		Trapeze		Clevis		Trapeze		Clevis		Trapeze	
20 mm	75 7 ft. (2 m)	30 7 ft. (2 m)	50 mm	160 10 ft. (3 m)	60 10 ft. (3 m)	110 mm	400 10 ft. (3 m)	160 10 ft. (3 m)	315 mm	1370 10 ft. (3 m)	875 10 ft. (3 m)	
25 mm	90 7 ft. (2 m)	35 7 ft. (2 m)	63 mm	200 10 ft. (3 m)	75 10 ft. (3 m)	125 mm	450 10 ft. (3 m)	180 10 ft. (3 m)	355 mm	2500 10 ft. (3 m)	1500 10 ft. (3 m)	
32 mm	115 7 ft. (2 m)	40 7 ft. (2 m)	75 mm	250 10 ft. (3 m)	110 10 ft. (3 m)	160 mm	850 10 ft. (3 m)	320 10 ft. (3 m)	415 mm	2870 10 ft. (3 m)	1720 10 ft. (3 m)	
40 mm	140 7 ft. (2 m)	55 7 ft. (2 m)	90 mm	300 10 ft. (3 m)	140 10 ft. (3 m)	200 or 225 mm	1,100 10 ft. (3 m)	550 10 ft. (3 m)	450 mm	3230 10 ft. (3 m)	1930 10 ft. (3 m)	

WeatherShield Upgrade Protection System For Outdoor Applications

Description / Features

WeatherShield modifications are appropriate for hostile environment or outdoor applications. For calcium silicate products we utilize Johns Manville T-1200 water resistant calcium silicate formulated specifically to shed water. The Standard WeatherShield is constructed with the Ventureclad Smooth aluminum jacketing material laminated between the steel protection shield and the insulation material. WeatherShield modifications may be specified on any 360° product from VEP. WeatherShields must be installed as 360° units to maintain their integrity and weather resistance.

Construction / Installation Procedure

On large units, the bottom shield's weather barrier covers approximately 240° of the unit's circumference. The flaps overlap the top vapor barrier and are then attached with two strips of self-sealing tape, sealing it to the lower half of the unit. If a top metal shield is required, it can be slid into place completing the unit. Insulation and jacketing extend beyond the steel protection shield for a neat, weather-tight connection with the adjoining insulation.

Standard weather barrier layer is smooth surface Ventureclad aluminum jacketing.

Pricing Policy

All WeatherShield upgrades will be quoted on a per job basis to a list of materials.

