

## Max-Span R.H. Thermal Hanger Shield Fig. MAXSPAN R.H.



### Description

The MaxSpan R.H. thermal hanger shield is specifically designed to provide a superior safety margin for pipe mounted on pipe rollers, flat surfaces or with supports where point loading may be a concern. These rugged units allow hanger spans up to the maximum allowed in Table 4 of the MSS SP-58. They are appropriate for either hot or cold pipe systems. The insulation and factory applied jacketing meeting ASTM E 96A (maximum 0.02 perm) extend beyond the galvanized steel shield for a neatly sealed joint with the adjoining insulation. Units for pipe 4" and larger include a wear/weight distribution plate of carbon steel (primer painted). Additionally, a segment of ultra-high density, 900 PSI calcium silicate is fabricated into units for 10" pipe size and larger. The MaxSpan R.H. meets or exceeds the MSS standard for Type 40 Shields per MSS SP-58, Paragraph 7.63 – 7.66. MaxSpan R.H. meets the ASTM E84 Standard Flame Spread –5–, Smoke Developed –5–. Rounded shield corners on all commercial size units.

### Dimensions

	1" to 1½"	2" to 3"	4" to 8"	10" to 12"	14" to 48"
Insulation Length	9" 230 mm	9" 230 mm	9" 230 mm	12" 300 mm	12" 300 mm
Shield Length	6" 150 mm	6" 150 mm	6" 150 mm	8" 200 mm	10" 250 mm
Shield Gauge	18 ga. 1.3 mm	16 ga. 1.6 mm	18 ga. 1.3 mm	18 ga. 1.3 mm	18 ga. 1.3 mm
Plate Thickness / Length	N/A	N/A	1/8" X 6" 3.2 mm X 150 mm	1/4" X 8" 6.35 mm X 200 mm	1/4" X 10" 6.35 mm X 250 mm

### Specifications

#### Applications:

- For indoor use on all roller hanger systems and flat surfaces (see Weather Shield Upgrade data page for outdoor applications)
- Chilled to steam piping and dual temperature lines.
- Hanger spans per MSS SP-58 Table 4.
- Available for pipes 1" to 48".
- Insulation thickness 1/2" through 4" to 6".

#### Materials/Construction:

- 1" through 8" Pipe – 360° 100 PSI Calcium Silicate meeting ASTM C-533 Type 1, C-585, C-795, E-84, Thermal Conductivity ('k') .40 @ 75° F mean.
- 10" through 18" Pipe – 360° 100 PSI Calcium Silicate meeting ASTM C-533 Type 1, C-585, C-795, E-84, Thermal Conductivity ('k') .40 @ 75° F mean with 900 PSI Type 2 grade 6 Calcium Silicate insert at bottom dead center.
- 20" through 48" Pipe – 360° Type 2 grade 5 Calcium Silicate 450 PSI
- Adhesive complying with NFPA 90-A and ASTM E-84.
- G-90 Galvanized steel shield, small check per ASTM A-653 (replaces A-527).
- Rounded corners for safety.
- Wear/Weight Distribution Plate – carbon steel meeting ASTM A-36.
- Factory applied jacketing meeting ASTM E 96A (maximum 0.02 perm), ASTM D-774, D-828 and E-84.



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

## Max-Span R.H. Thermal Hanger Shield Fig. MAXSPAN R.H.

### Allowable loads (Minimum 3.5 to 1 safety margin applied) – Recommended Spans

	Roller	Flat Surface		Roller	Flat Surface
1" Pipe	140 lbs. 7 ft. (2.2 m)	140 lbs. 7 ft. (2.2 m)	10" Pipe	2,450 lbs. 22 ft. (6.7 m)	2,575 lbs. 22 ft. (6.7 m)
1¼" Pipe	175 lbs. 7 ft. (2.2 m)	175 lbs. 7 ft. (2.2 m)	12" Pipe	3,480 lbs. 23 ft. (7.0 m)	3,550 lbs. 23 ft. (7.0 m)
1½" Pipe	205 lbs. 9 ft. (2.7 m)	205 lbs. 9 ft. (2.7 m)	14" Pipe	4,770 lbs. 25 ft. (7.6 m)	4,820 lbs. 25 ft. (7.6 m)
2" Pipe	255 lbs. 10 ft. (3.0m)	255 lbs. 10 ft. (3.0m)	16" Pipe	8,050 lbs. 27 ft. (8.2 m)	8,250 lbs. 27 ft. (8.2 m)
2½" Pipe	325 lbs. 11 ft. (3.4 m)	350 lbs. 11 ft. (3.4 m)	18" Pipe	9,025 lbs. 28 ft. (8.5 m)	9,505 lbs. 28 ft. (8.5 m)
3" Pipe	360 lbs. 12 ft. (3.6 m)	375 lbs. 12 ft. (3.6 m)	20" Pipe	9,550 lbs. 30 ft. (9.1 m)	10,550 lbs. 30 ft. (9.1 m)
4" Pipe	405 lbs. 14 ft. (4.3 m)	405 lbs. 14 ft. (4.3 m)	24" Pipe	15,500 lbs. 32 ft. (9.8 m)	17,350 lbs. 32 ft. (9.8 m)
6" Pipe	1,015 lbs. 17 ft. (5.2 m)	1,070 lbs. 17 ft. (5.2 m)	30" Pipe	22,000 lbs.	24,200 lbs.
8" Pipe	1,555 lbs. 19 ft. (5.8 m)	1,625 lbs. 19 ft. (5.8 m)	36" Pipe	27,500 lbs.	29,080 lbs.
			42" Pipe	31,200 lbs.	33,900 lbs.
			48" Pipe	37,300 lbs.	38,750 lbs.

## 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.

