

MULTI-FIT ALUMINUM ELBOW COVERS

ALUMINUM METAL JACKETING/CLADDING

DESCRIPTION

Johns Manville Multi-Fit Aluminum Elbow Covers are made in two precision formed matching halves to cover and weatherproof insulated 90° pipe elbows. These elbow covers were formerly known as Childers Ribbed Univers-Ells.

Each JM Multi -Fit Aluminum Elbow Cover is designed to fit over 90° insulation elbows with a specific outer diameter regardless of the pipe size, use of long or short radius pipe elbows, or insulation thickness. The thirteen sizes of JM Multi-Fit Aluminum Elbow Covers will fit 111 combinations of NPS and insulation thickness up to a nominal outer insulation diameter of 12.75 inches.

Like JM Aluminum Jacketing, Multi-Fit Aluminum Elbow Covers are a premier protective outer surface for mechanical insulation systems on pipe and are an excellent performing and critical accessory to complement the aluminum jacketing. JM Multi-Fit Aluminum Elbow Covers protect the insulation and underlying pipe from physical damage, UV exposure, corrosive atmospheres, and water and reduce the labor necessary to install the metal jacketing system.

GAUGE, COMPOSITION, FINISH, MOISTURE BARRIER, EXTERIOR PAINT, EMITTANCE, FLAMMABILITY, & PACKING

JM Multi -Fit Aluminum Elbow Covers are made from 0.024 inch thick 1100 aluminum alloy with a smooth (mill) surface finish, have a painted moisture barrier, come standard with a clear painted exterior surface with an emittance of 0.5, have a very low flammability, and are packed with 15 elbow sets (30 elbow halves) per carton. For details on these features, please consult the JM data sheet on standard Aluminum Elbow Covers.

FIT, SIZE SELECTION, & INSTALLATION

The table to the right shows the nominal outer insulation diameter each JM Multi -Fit Aluminum Elbow Cover is designed to fit. For detailed information on selecting JM Multi-Fit Aluminum Elbow Covers for various combinations of NPS and insulation thickness, consult the JM Fitting Selection Guide. For details on installation, see the JM data sheet on Aluminum Elbow Sizes and Installation and the diagram on the next page.

JM Multi -Fit Aluminum Elbow Covers are designed to yield a 5/8" overlap at the heel and throat joints when used over insulation that complies with the target diameters in ASTM C585 and C450. If the insulation outer diameter deviates significantly from that specified in these standards, the overlap size may change and the fit may be compromised.



RECOMMENDED USES

JM Multi -Fit Aluminum Elbow Covers are recommended for use when a reduced number of possible elbow sizes are desired and aluminum jacketing is used on the associated straight sections of pipe.

MULTI-FIT SIZE CHART

| Nominal Outer Insulation Diameter (inches) | JM Multi -Fit Elbow Number |
|--|----------------------------|
| 2.875 | 3 |
| 3.5 | 3-1/2 |
| 4.0 | 4 |
| 4.5 | 4-1/2 |
| 5.0 | 5 |
| 5.563 | 5-1/2 |
| 6.625 | 6 |
| 7.625 | 7 |
| 8.625 | 8 |
| 9.625 | 9 |
| 10.75 | 10 |
| 11.75 | 11 |
| 12.75 | 12 |

LIMITATIONS ON USE

JM Multi-Fit Aluminum Elbow Covers are not appropriate for the following applications:

- For applications where a maximum resistance to fire is required, JM stainless steel elbow covers should be used
- Where maximum resistance to corrosion is required, JM stainless steel elbow covers should be used

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COMPLIANCE TO STANDARDS

The standard exterior color for JM Multi-Fit Aluminum Elbow Covers is a clear paint which reveals the natural aluminum color. JM Multi-Fit Aluminum Elbow Covers are also available via special order with a white or gray painted exterior surface to match the colors of our standard painted aluminum jacketing or other colors.

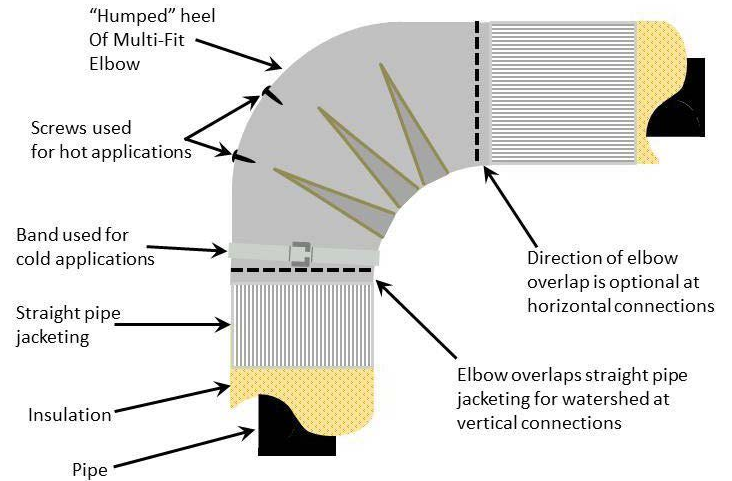
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SEALING OF JOINTS

For best insulation system performance and resistance to water infiltration, JM recommends that all joints in Multi-Fit Aluminum Elbow Covers be sealed with an appropriate joint sealant. This should be applied between the overlapping pieces of metal in the joint and not as a caulking bead on the exterior lip of the joint.

INSTALLED MULTI-FIT ALUMINUM ELBOW COVER



| NPS | Insulation Thickness (in) | | | | | | | | |
|-----|---------------------------|----|----|----|----|----|----|----|----|
| | 1 | 1½ | 2 | 2½ | 3 | 3½ | 4 | 4½ | 5 |
| ½ | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| ¾ | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1 | 3½ | 4½ | 5½ | 6 | 7 | 8 | 9 | 10 | 11 |
| 1¼ | 3½ | 5 | 5½ | 6 | 7 | 8 | 9 | 10 | 11 |
| 1½ | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2 | 4½ | 5½ | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 2½ | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 3 | 5½ | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 3½ | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| 4 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | |
| 4½ | 7 | 8 | 9 | 10 | 11 | 12 | | | |
| 5 | 7 | 8 | 9 | 10 | 11 | 12 | | | |
| 6 | 8 | 9 | 10 | 11 | 12 | | | | |
| 7 | 9 | 10 | 11 | 12 | | | | | |
| 8 | 10 | 11 | 12 | | | | | | |
| 9 | 11 | 12 | | | | | | | |
| 10 | 12 | | | | | | | | |

Pabco/Childers Metals



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Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of the product listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Regional Sales Office nearest you for current information.

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