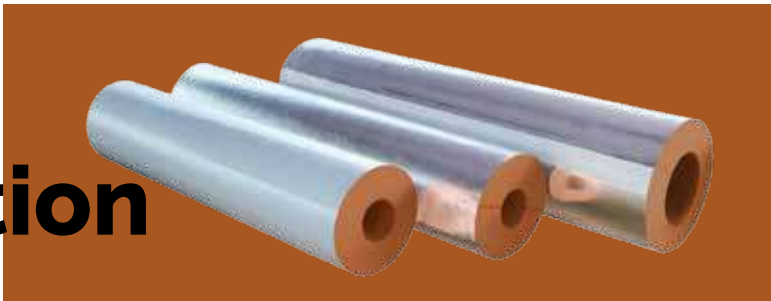


# PolyPhen<sup>®</sup>

## Phenolic Insulation

### Installation Guidelines



#### Guidelines

The following guidelines should be used for the specification and application of PolyPhen closed-cell rigid phenolic foam insulation.

- Polyphen has a .16 k-factor with a 6.25 R-Value at 1" thick. PolyPhen is 100% CFC HCFC and halogen free.
- Exceeds ASTM E84 25/50 flame and smoke up to 3" thick. PolyPhen is a minimal 92% closed cell.
- Four densities (4) are available: 2.5# (.16 K factor), 3.75# (.16 K factor), 5.0# (.21 K factor), and 7.5# (.23 K factor).
- Two factory applied jackets are available; ZeroPerm and Alumaguard Lite White products.
- Both ZeroPerm and Alumaguard Lite White are 0 perm and do not promote mold growth.
- Fittings and valves are fabricated in mitered sections and/or factory molded pieces.



#### Specification / Application

##### Piping:

Ensure pipe is dry and free of debris. Coating the pipe for rust prevention is not required. Tight surface rust may be present on the pipe before installation and also will occur under any type of insulation with moisture present. It is a good practice to coat piping with anti corrosion gel, Polyguard RG 2400 products.

##### Chilled Water:

- Indoor conditioned areas use 1" PolyPhen up to 4" pipe, 1.5" usually recommended on larger pipe sizes in hot and humid conditions.
- Joints and seams are to be firmly butted together.
- Vapor stops are to be installed/applied at 21-foot intervals using Childers CP-76 joint sealer or approved equal.
- Fittings and valves are to be of the same thickness as the adjoining insulation. Secure in place with 1/2" wide fiberglass filament tape and vapor seal with fab cloth embedded in Fosters 30-80AF or approved equal.
- Indoor, non-conditioned areas such as crawl space, attic, or mechanical rooms where outdoor air is present.
- Outdoor, use minimum 1 1/2" thick. Joint seal all seams and butt joints with CP-76 or approved equal. In mechanical rooms or high traffic areas subject to abuse or damage, use 3.75# density from the ground up to 7 feet high.

##### Heating Hot Water:

PolyPhen 1 to 1 1/2" thick will meet the International Energy Code (803.3.7) for all pipe sizes.

##### Pipe Supports:

The bottom 180 degrees of the support will be high-density material based on the table below.

For non-standard application contact us for design calculations.



Foam Density	Pipe Size	Saddle	Foam & Saddle Length	Centers
2.5#	4" and smaller	18 Gauge	12"	10'
3.75#	5" to 10"	16 Gauge	12"	10'
5.0#	12" to 16"	14 Gauge	12"	10'
5.0#	18" to 20"	10 Gauge	18"	10'
7.5#	24" and larger	8 Gauge	24"	10'