

SNAPP ITZ

1. Product Name

- Snappitz Insulated Pipe Supports

2. Manufacturer

K.B. Enterprises
199 Landfill Road
Anaconda, MT 59711
Phone: 406-563-9166
Fax: 406-563-3467
Email: kevin@snappitz.com or melissa@snappitz.com
Web: www.snappitz.com

3. Product Description

Basic Use

Mechanical pipe support systems are often hung from the ceiling on clevis or trapeze hangers. On insulated pipe systems, the weight of the pipe would crush the insulation at the hanger and provide no R-Value at that point. Snappitz thermal insulating piping supports are a 360-degree rigid support around the pipe installed at each hanger point to support the weight of the pipe so no insulation is degraded. Snappitz systems are to be installed by the mechanical contractor when the piping system is installed.

Snappitz pipe supports are precision-manufactured with the inside (ID) to match exactly the outside diameter (OD) of the pipe it is installed on. Similarly, the ODs of Snappitz supports are manufactured to match exactly the OD of the correct thickness of insulation that is being specified for that pipe system. This allows the insulation on the continuing pipe to butt up right next to the Snappitz supports, and be sealed with ASJ (All Service Jacketing) tape to provide a clean seamless looking insulation layer right through the pipe hanger points.

Snappitz pipe supports are installed on pipes at hanger locations to prevent pipe insulation from being crushed between the pipe hanger and the load bearing weight of the pipe itself; and maintain full R-value of pipe insulation through pipe hanger. Sizes are available in 1/2 to 24 inch (13 - 610 mm) diameters, with specified insulation thicknesses, for copper, steel, cast iron, stainless steel and refrigeration piping.

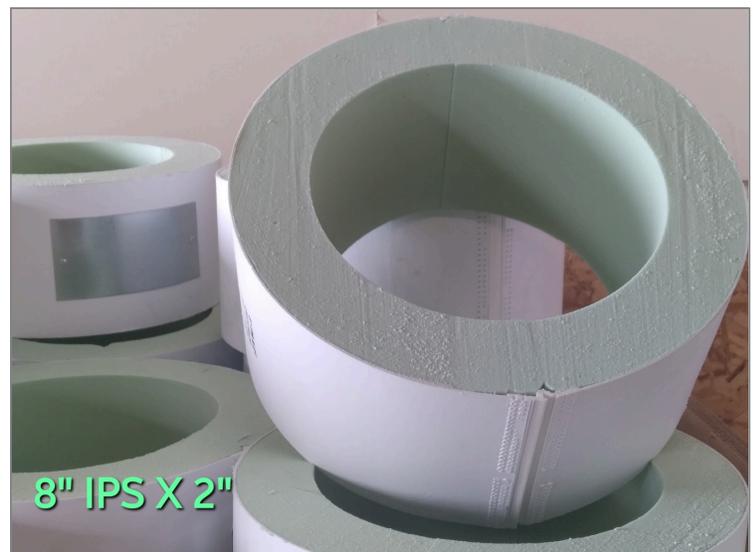
Snappitz pipe supports are provided with inside diameter sized to match outside diameter of pipe, and outside diameter sized to match outside diameter of specified pipe insulation.



Composition and Materials

Snappitz pipe supports are manufactured from one of four different densities of rigid polyisocyanurate laminated inside of a one-piece PVC jacket for diameters less than 7.5 inches, or laminated inside of 20 gauge galvanized sheet metal for larger diameters. Snappitz supports are engineered to utilize the correct density of foam and gauge of sheet metal to adequately support the weight of the pipe that it is being utilized on, including a safety factor.

Snappitz pipe supports for three-inch (76 mm) and smaller pipe sizes are manufactured with two halves of polyisocyanurate insulation core laminated inside a two-piece rigid PVC outer casing with full-length integral hinge and snap-lock seam.





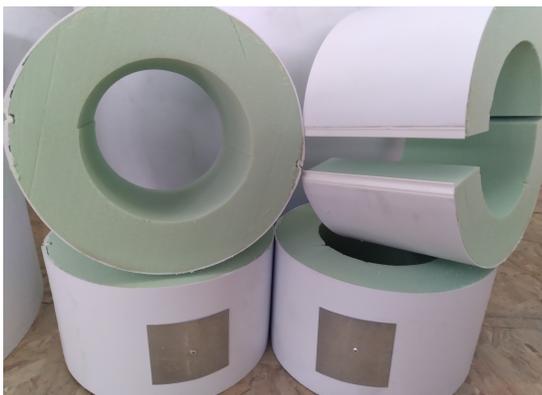
A weight distribution plate is a small rectangular plate bent at the same curvature of the outside of the Snappitz supports and attached to the bottom to prevent any deflection in the Snappitz support jackets. These plates are on all Snappitz support sizes from 3 inches and larger. They are securely fastened with metal rivets. See weight distribution plate image above.

Snappitz pipe supports for three-inch (102 mm) and larger pipe sizes are manufactured with two halves of polyisocyanurate core laminated inside a two-piece galvanized sheet metal outer casing with full-length interlocking seams that slide together.

BENEFITS

- Maintains full R-value of pipe insulation through pipe hanger
- Labor cost savings due to ease of installation
- Long service life equal to the life of the piping system
- No degradation from moisture exposure

Weight distribution plate



Product Limitations

Temperature range of polyisocyanurate foam insulation;
-297 - 300 degrees F (-183 - 149 degrees C)

Material Safety Data Sheets (MSDS)

- Polyisocyanurate insulation

Accessories

- SJ Insulation Vapor Barrier: White Kraft paper, reinforced with fiberglass scrim and aluminum foil backing coated with adhesive; used as vapor retarder and jacketing tape to seal joints between pipe insulation and insulated pipe supports

Options

- Custom diameters to fit uncommon pipe sizes and heavier weight pipe
- ASJ jacket installed between insulation and PVC or metal outer jackets
- Extended lengths
- Custom boxing and labeling to facilitate on-site distribution and installation

4. Technical Data

Applicable Standards

American Society of Testing and Materials (ASTM)

- **ASTMA653/A653M-13** Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process
- **ASTMC209** Standard Test Method for Cellulosic Fiber Insulating Board
- **ASTMC272/C272M-12** Standard Test Method for Water Absorption of Core Materials for Sandwich Constructions

- **ASTM D1621-10** Standard Test Method for Compressive Properties of Rigid Cellular Plastics
- **ASTM D1622/D1622M14** Standard Test Method for Apparent Density of Rigid Cellular Plastics
- **ASTM D4216-13** Standard Specification for Rigid Poly (Vinyl STMD4216-13 Chloride) (PVC) and Related PVC Chlorinated Poly (Vinyl Chloride) (CPVC) Building Products Compounds
- **ASTM E84-14** Standard Test Method for Surface Burning Characteristics of Building Materials
- **ASTM E96/E96M-14** Standard Test Methods for Water Vapor Transmission of Materials

Physical Properties

See Table 1.

Environmental Considerations

- Use of polyisocyanurate insulation on hot and cold pipes and equipment can help obtain LEED credits in several categories

5. Installation

Follow Manufacturer's Installation Instructions:

Instructions for small diameter pipe sizes:

1. Open the "J-Lock" closure of the PVC Snappitz supports just wide enough to be placed on the pipe.
2. Slide the "half-closed Snappitz supports" into the pipe hanger
3. Close the Snappitz supports until the "J-Lock" Closure snaps securely shut.

Instructions for large diameter pipe sizes:

1. Separate the two halves by sliding horizontally.
2. Install the bottom half by fitting onto the pipe.
3. Install the top half (labeled "top") by sliding horizontally onto the bottom half with the two sides of the top half going around and on the outside of the bottom piece.*
4. Slide entire unit into the hanger.

*Note: It is critical to ensure the metal from the top 180 is not spread too far so that it breaks away from the adhesive that is adhering the foam to the metal. Spread just wide enough to slide the top over the bottom piece.

6. Availability and Cost

Please contact manufacturer for nearest distributor, availability and pricing information.

Table 1—Physical Properties

Insulation Values	Polyisocyanurate Insulation	
	Distribution Plate Included on sizes 3" <	
Compressive strength ASTM D1621 [lb/in ² (kPa)]	24 (165) w/20g Distribution Plate 80 (552) w/20g Distribution Plate 140 (965) w/20g Distribution Plate	
Density ASTM D1622 [lb/ft ³ (kg/m ³)]	2.05 (32.8) 4.0 (64) 6.0 (96)	
Water absorption % by volume ASTM C272	0.15 0.5	
	ASTM C209	0.3
Thermal conductivity at 75° ASTM C518	0.19 (0.027) 0.19 (0.027)	
	Btu-in/hr-ft ² -°F (W/m ² -°C)	0.20 (0.029)
Surface burning characteristics ASTM E84	25/50 15/360	
	Flame spread/Smoke developed	15/550
Service temperature °F (°C) ASTM E84	-297 - 300 (-18 - 149)	

7. Warranty

K. B. Enterprises purchased both Mechanical Pipe Shields Manufacturing LLC and B & B Mechanical Insulation LLC and stands solely behind its warranty.

K. B. Enterprises offers a life-time warranty against defects in material and workmanship. K. B. Enterprises warranties Snappitz Thermal Insulated Pipe Supports for a period of 20 years from the initial date of purchase. Snappitz supports are warrantied to be free of any component defects or defects in manufacturing workmanship, as well as inherent component properties or that could cause failure of the Snappitz supports to structurally support the engineered weight of the pipe for which it was designed.

Snappitz supports are further warrantied against delaminating, warping, or cracking, or degradation due to the normal expansion and contraction of service pipe that is inside the allowable operating temperature range of minus 297 - 300 degrees.

Snappitz supports are warrantied against the absorption of moisture or vapor and any structural or environmental damage resulting from mold or mildew.

K. B. Enterprises' liability is expressly limited to the replacement material and labor costs only, and in no event will the company be responsible for any other costs or loss, including but not limited to loss of business, profits, downtime, or delay, after the 20 year warranty period, or resulting from incorrect installation, or exterior forces in excess of the designed weights of the pipe, or any form of degradation resulting from any type of act of God.

K. B. Enterprises' warranty terms and conditions certificate is available from K. B. Enterprises upon request.

8. Maintenance

Snappitz Insulated Pipe Supports do not require maintenance.

9. Technical Services

K. B. Enterprises offers an Electronic Take-Off Service to contractors needing assistance in quantifying how many and what size of Snappitz supports are required for a specific project.

Contractor should provide copies of the drawings for such projects in PDF format as well as a copy of the specifications directing K. B. Enterprises on which pipe systems get insulated and the thickness of insulation required.

10. Filing Systems

- CMD
- Additional product information is available from the manufacture upon request. ↪

