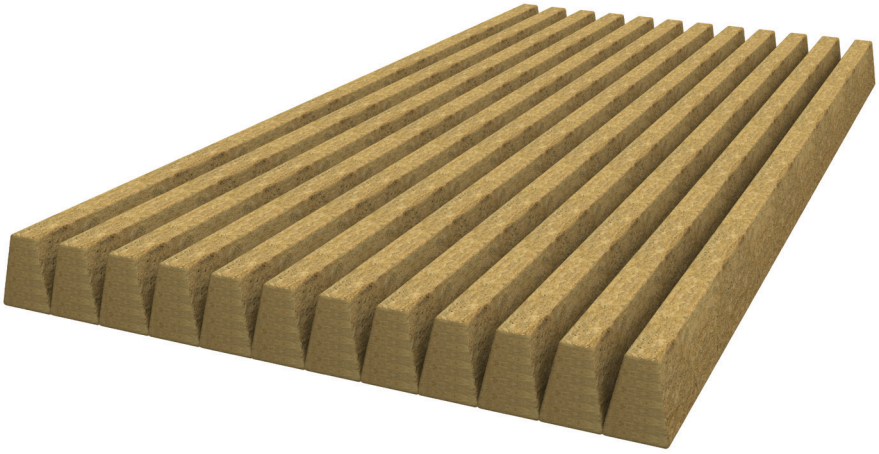
GLT Fabricators

TECHNICAL INFORMATION

GreatROC® Precision Cut
Stone Wool Pipe Insulation



JACKETING INFO

Standard pipe insulation is furnished with no facing (plain) for sectional pipe sizes up to 2" NPS, with glass mat facing for 2" NPS and larger, and optional in all pipe sizes with ASJ/SSL

All Service Jacket with Self-Sealing-Lap. Other jacketing such as FSK (Foil/Scrim/Kraft) others maybe available upon request.

Caution: *For high temperature applications, sufficient insulation thickness must be used to maintain outer surface temperatures below 150° F.(66°C) for ASJ and FSK facings.*

THERMALLY EFFICIENT AND LIGHTWEIGHT STONEWOOL PIPE INSULATION

GreatRoc® Precision Cut is a stone wool fabricated pipe insulation that is water repellent and engineered to meet the toughest industrial applications.

GreatRoc® Precision Cut Stone Wool pipe provides excellent thermal insulation performance for use on high-temperature applications in process industries and applications requiring fire resistance.

AVAILABILITY

GreatRoc® Precision Cut is manufactured in La Porte, TX. It is typically used to avoid long lead times associated with larger pipe sizes during quick turnarounds and compressed project schedules.

Typical lead times are 5-7 business days for any size pipe with no limitations on ID, OD or thickness. 1" to 4" wall thickness is supplied as a single layer system. Above 4" thickness is supplied as a double layer system with glass mat facing only on the interior layer. Sizes larger than 48" OD are fabricated in quad-segments.

COMPLIANCE

- ASTM C547, Mineral Fiber Pipe Insulation, Type III, Grade A
- ASTM C795, Thermal Insulation for Use in Contact with Austenitic Stainless Steel
- Nuclear Regulatory Commission Guide 1.36, Non-Metallic Thermal Insulation

SHIPPING CONFIGURATION

Finished product ships flat with no glue in joints.

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Product Properties & Specification Compliance

Properties	Performance								Test Method / Norms
Thermal Conductivity at mean temperature	Tm (°F)	100	200	300	400	500	600	700	ASTM C335
	λ (BTU.in/hr.ft2.°F)	0.23	0.28	0.34	0.40	0.47	0.55	0.64	
	Tm (°C)	38	93	149	204	260	316	371	
	λ (W/mK)	0.033	0.040	0.049	0.058	0.068	0.079	0.092	
Mineral Fiber Pipe Insulation	Complies								ASTM C547 Type III Grade A
Dimensional Pipe Insulation	Complies								ASTM C585
Maximum Use Temperature	1,200°F (650°C)								ASTM C447
Sag Resistance	Complies								ASTM C411
Linear Shrinkage	≤ 2% at 1,200°F (650°C)								ASTM C356
Water **Vapor** Sorption	Passes								ASTM C1104
Water Absorption	≤0.01 lb/ft2 (≤0.06 kg/m2)								EN13472
Shot Content	<25%								ASTM C1335
Compressive Strength	167 psf (8 kPa) @ 10 % compression								ASTM C165
Thermal Resistance	R-Value / inch @ 75°F, 4.2 RSI value / 25.4mm @ 24°C, 0.74								ASTM C518 & ASTM C177
Surface Burning Characteristics	25 Flame Spread or less 50 Smoke Development or less								ASTM E84

Some smoke and odor can be expected during the initial heat-up above 450°F due to oxidation of organic binder material. Minimize by following a heat up schedule: begin at 300°F and increase by 100°F per hour until reaching temperature with adequate ventilation.

Corrosion Resistance Stress	Passes	ASTMC795 & ASTM C692
Corrosion Evaluation on External	Passes	ASTM C795 & ASTM C871
NRC 1.36	Complies	ASTM C692 & ASTM C871

Product Certification - When ordering material to comply with a government or other specification, a statement must appear on the purchase order. Certifications can require specific lot testing and do not allow certification after shipment. Additional charges can apply for certification compliance testing. Contact customer service for more information.

SPI, LLC-92221