

ElastoTherm™ E Roofing Insulation

TECHNICAL PRODUCT INFORMATION



BITEC® ElastoTherm E is a closed cell polyisocyanurate thermal insulation panel with an integrally bonded inorganic glass fiber reinforced facer and is compatible with BITEC roof membranes and systems.

FEATURES & BENEFITS

BITEC ElastoTherm E also provides the following features and benefits:

- Available in both flat and tapered panels
- Available in both Grade 2 (20 psi) and Grade 3 (25 psi) compressive strengths, tested per ASTM C 1289
- Flat stock is manufactured in both 4' x 4' and 4' x 8' sizes
- Tapered stock is manufactured in 4' x 4'
- Thicknesses of flat insulation between 1" to 4" - additional thicknesses may be available
- Taper designs and shop drawings are available on request
- Manufactured using a CFC-free, HCFC-free, and HFC-free foam blowing technology that has zero ozone depletion potential (ODP) and virtually no global warming potential

PACKAGING

Packaging: Shrink wrapped bundles on pallets

Pieces per pallet: Please refer to the table on the following page

Pallets per truckload (typical for 4'x8' pallets): 22-24

APPROVALS

UL 1256 Insulated Metal Deck Constructions No. 120, 123, and 292

UL 790 Roofing Systems Classification

UL 263 Fire Resistance Classification

UL 1897 Uplift Resistance

FLORIDA PRODUCT APPROVAL FL 17989

FM Approved 4450 / 4470 (refer to RoofNav for specific details)

APPLICATION

BITEC ElastoTherm E roofing insulation can be installed as a part of many different roofing systems. Please refer to the BITEC Roofing Products Installer's Guide for detailed application guidelines.

Panels must be kept dry from storage through installation. Install only as much as can be covered with roofing that same

day. When using multiple layers of insulation, joints should be staggered a minimum of 6" (15 cm) to prevent thermal bridging. Panels must be fitted neatly to the roof deck and with no more than a 1/4" (0.6 cm) gap around penetrations. Panels should be abutted together and adjacent panels should have their joints staggered. New concrete decks must be fully hydrated and are no longer releasing moisture.

As with any roofing project, good roofing practices should always be followed.

STORAGE & HANDLING

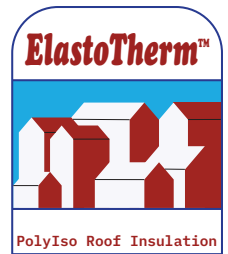
Store ElastoTherm panels flat and in a horizontal position to prevent damage, in the original pallet and shrink wrap, if possible. Store elevated (at least 3" / 7.6 cm) and covered to protect from environmental damage. Do not use wet or damaged panels. Refer to PIMA Tech Bulletin No. 109 for additional guidelines.

PRECAUTIONS

Safety first! The roofing contractor and employees are the key to success regarding safety. Safety should always be first! Read all label information, SDS, and precautions before using. For safety information on our products, please visit www.bitec.com.

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Thermal and Packaging Data - Flat						
Thickness		LTR Value	RSI	Pallet Quantity	Flute Spanability	
in	mm				in	mm
1.0	25.4	5.7	1.00	48	2.625	66.68
1.5	38.1	8.6	1.50	32	4.375	111.13
2.0	50.8	11.4	2.01	24	4.375	111.13
2.5	63.5	14.4	2.53	19	4.375	111.13
3.0	76.2	17.4	3.06	16	4.375	111.13
3.5	88.9	20.5	3.60	13	4.375	111.13
4.0	101.6	23.6	4.15	12	4.375	111.13

Thermal and Packaging Data - Tapered						
Panel	Slope	LTR	RSI	Pallet Quantity	Thickness	
					in	mm
AA	1/8"	4.3	0.76	64	0.5-1.0	12-25
A	1/8"	7.1	1.25	38	1.0-1.5	25-38
B	1/8"	10.0	1.76	26	1.5-2.0	38-50
C	1/8"	12.9	2.27	20	2.0-2.5	50-63
X	1/4"	5.7	1.00	48	0.5-1.5	12-38
Y	1/4"	11.4	2.01	24	1.5-2.5	38-63
Q	1/2"	8.6	1.51	32	0.5-2.5	12-63

Technical Schedule		
Compressive Strength	20 psi (Grade 2)	ASTM D1621
Dimensional Stability	<2%	ASTM D2126
Water Absorption	<1.5%	ASTM C209
Vapor Transmission	<4.0 perms	ASTM E96
Flame Spread	<75	ASTM E84
Smoke Developed	<450	ASTM E84
Density	2.0 pcf	ASTM D1622

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WHEN QUALITY MATTERS™