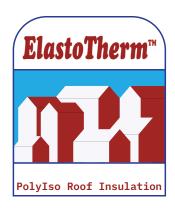
ElastoThermTM E Roof Insulation



Product Information:

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.

- Available in both flat and tapered panels
- Manufactured using a CFC-free, HCFCfree, and HFC-free foam blowing technology that has zero ozone depletion potential (ODP) and virtually no global warming potential.
- Available in both Grade 2 (20 psi) and grade 3 (25 psi) compressive strengths tested per ASTM C 1289.

Approvals:

- UL 1256 Insulated Metal Deck Constructions No. 120, 123, & 292
- UL 790 Roofing Systems Classification
- UL 263 Fire Resistance Classification
- UL 1897 Uplift Resistance
- FM 4450/4470 (refer to RoofNav for specific details)
- Florida Approved (FL17989)



Flat Panels:

- Sizes:
 - o 4 ft X 4 ft
 - . 4 ft X 8 ft
 - Thickness: 1 to 4 inches
- Refer to table 1 for flute spans and R value information

Tapered Panels

- Sizes
 - o 4 ft X 4 ft
 - Thickness: ½ to 4-½ inches
- Taper designs and shop drawings available.



ElastoTherm E

Table 1 - Thermal Data

Thickness		LTTR	RSI	Flute Spanability	
in	mm	Value		in	mm
1.0	25.4	5.7	1.00	2.625	66.68
1.5	38.1	8.6	1.50	4.375	111.13
2.0	50.8	11.4	2.01	4.375	111.13
2.5	63.5	14.4	2.53	4.375	111.13
3.0	76.2	17.4	3.06	4.375	111.13
3.5	88.9	20.5	3.60	4.375	111.13
4.0	101.6	23.6	4.15	4.375	111.13

Table 2 - Tapered Thermal Data							
Danal	LTTR	RSI	Thickness				
Panel			in	mm			
AA	4.3	0.76	0.5-1.0	12-25			
А	7.1	1.25	1.0-1.5	25-38			
В	10.0	1.76	1.5-2.0	38-50			
С	12.9	2.27	2.0-2.5	50-63			
Х	5.7	1.00	0.5-1.5	12-38			
Υ	11.4	2.01	1.5-2.5	38-63			
Q	8.6	1.51	0.5-2.5	12-63			

Physical Properties						
Property	Result	ASTM Test				
Compressive Strength, psi	20 (grade 2)	D1621				
Dimensional Stability, %	<2	D2126				
Water Absorbtion, %	<1.5	C209				
Vapor Transmission, perm	<4.0	E96				
Flame Spread	<75	E84				
Smoke Developed	<450	E84				
Density, pcf	2.0	D1622				

Storage:

- Store panels flat and in a horizontal position to prevent damage.
- Store elevated (at least 3 inches) and covered to protect from environmental damage.
- Do not use wet or damaged panels.
- Refer to PIMA Tech Bulletin No. 109 for additional guidelines.

Installation:

- Panels must be kept dry from storage through installation.
 Install only as much as can be covered with roofing that day.
- When using multiple layers
 of insulation, joints should be
 staggered a minimum of 6 inches to prevent thermal bridging.
- Panels must be fitted neatly to the roof deck and with no more than a ¼ inch 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.

