ElastoTherm™ Vented Nail Base

Nailable Cross Ventilated Roof Insulation

ElastoTherm™

PolyIso Roof Insulation

Product Information:

ElastoTherm Vented Nail Base is a closed cell ElastoTherm B polyisocyanurate thermal insulation panel bonded to a min ⁷⁄₁₆" APA/TECO rated or OSB or min ¹⁹⁄₃₂" CDX plywood. Each panel is separated with and bonded to 5 individual 1.0", 1.5", or 2.0" vent spacer strips.

- Combines the benefits of a cross ventilating air space with a nailable roof substrate and polyiso insulation.

- 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.

- 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)
- Miami-Dade Approved

Flat Panels:
- Sizes:
  - 4 ft X 8 ft
  - Thickness: 2.5 to 6.5 inches

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Thermal Data										
Composite Thickness	in	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
	mm	64	76	89	102	114	127	140	152	165
1.0" Air Space	LTTR Value	5.7	8.6	11.4	14.4	17.4	20.5	23.6	-	-
	RSI	1.00	1.50	2.01	2.54	3.06	3.60	4.15	-	-
1.5" Air Space	LTTR Value	-	5.7	8.6	11.4	14.4	17.4	20.5	23.6	-
	RSI	-	1.00	1.50	2.01	2.54	3.06	3.60	4.15	-
2.0" Air Space	LTTR Value	-	-	5.7	8.6	11.4	14.4	17.4	20.5	23.6
	RSI	-	-	1.00	1.50	2.01	2.54	3.06	3.60	4.15

Net Free Area Per Linear Foot			
Air Space Dimensions	1.0"	1.5"	2.0"
Net Free Area (NFA/LF)	9.50 in^2	14.25 in^2	19.00 in^2

Physical Properties		
Property	Result	ASTM Test
Compressive Strength, psi	20 (grade 2)	D1621
Dimensional Stability, %	<2	D2126
Water Absorbtion, %	<1.0	C209
Vapor Transmission, perm	<1.0	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:

- Bitec requires the use of Bitec **ImperFast** fasteners to approved roof decks.
- 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.

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