Paratherm® NH Tapered Polyiso Insulation

Sloped TCPP-Free Polyiso with GRF Facers

Description:

Paratherm® NH Tapered Polyiso Insulation is a sloped panel made of glass fiber reinforced cellulosic facers (GRF) bonded to a core of TCPP-Free Non-halogenated polyisocyanurate foam.

Paratherm® NH Tapered Polyiso Insulation offers high thermal performance for commercial roofing applications requiring a sustainable solution.

Features and Benefits:

- **Paratherm® NH Tapered Polyiso Insulation is better for the environment because it does not contain potentially hazardous flame-retardant chemicals (TCPP)**
- **Maintains the same R-value when tested according to ASTM C1289 standard using the C518 test method at both a mean temperature of 40° F (4.4°C) and 75° F (24° C)**
- Prevents ponding water when properly installed on a low-slope roof by providing slope via a series of both tapered and flat polyiso fill boards
- Higher R-value per inch than other insulations such as EPS, XPS and Mineral Wool
- Easy to install — lightweight, easy to cut, easy to handle

System Approvals:

- Approved component in commercial roof systems, mechanically attached and adhered
- Refer to the applicable Siplast Technical Guide for detailed application information

Panel Characteristics:

- Available in a variety of sizes: 4' x 4' (1.22 m x 1.22 m) and 4' x 8' (1.22 m x 2.44 m) boards upon special request
- Available in a variety of slopes: 1/8" (3.2mm), 3/16" (4.8 mm), 1/4" (6.35 mm), 3/8" (9.5 mm), 1/2" (12.7 mm)

Codes & Compliance:

- Meets the requirements of ASTM C1289 Type II, Class 1, Grade 2 (20 psi) and Grade 3 (25 psi)
- FM Approved — refer to RoofNav.com for approved assemblies
- Classified by UL in accordance with ANSI/UL 1256, 790 and 263. Refer to UL Product iQ for specific assemblies
- UL Evaluation Report UL ER1306-03
- Miami-Dade County Product Control Approved
- State of Florida Approved

FM APPROVED · CLASSIFIED UL · PIMA QualityMark Independent / Certified / LTTR + · MIAMI-DADE COUNTY APPROVED

Sustainability:

- Can contribute towards sustainable certifications under a green building rating system such as LEED V4, or Living Building Challenges.
- Manufactured using CFC-, HCFC- and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and virtually no (negligible) global warming potential (GWP).
- Potential LEED® Credits for Polyiso Use Health Product Declaration (HPD)
- Living Building Challenge Red List approved
- UL GreenGuard Gold
- Environmental Product Declaration (EPD)
- Where sold compliant with State HFC regulations. More information available at www.polyiso.org.

Declare. · GREENGUARD GOLD · TCPP FREE

Tapered Design Team:

Our Tapered Design Group specialists are available within your region to assist you in all aspects of pre-planning, design, and training. Contact the Tapered Design Department at tdg@siplast.com

Our product and services include:

- Conceptual design assistance
- Plan and spec review
- Quote review and comparison
- Alternate design recommendations
- Job start-ups, trainings, and presentations
- Load and Label by area
- Double packs

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Typical Physical Property Data:

Property	Test Method	Value
Compressive Strength	ASTM D1621	Grade 2 – 20 psi min (138 kPa) Grade 3 – 25 psi min (172 kPa)
Dimensional Stability Change (length + width) [§]	ASTM D2126	< 2% linear change
Flexural Strength	ASTM C203	40 psi min (275 kPa)
Tensile Strength	ASTM C209	500 psf min (24 kPa)
Water Absorption (percent by volume)	ASTM C209	1.5% max
Water Vapor Permeance	ASTM E96, Procedure A	1.5 perm max (85.8 ng/Pa•s•m^2)
Service Temperature		-100° F to 250° F (-73.3° C to 121.1° C)
Flame Spread Index [‡]	ASTM E84	< 75 [*]
Smoke Developed Index	ASTM E84	< 200 [*]

[*] Foam Core
[†] Stated dimensional stability tolerance: thickness shall not diminish by more than 4% max.
[‡] These numerical ratings are not intended to reflect hazards presented by these or any other material under actual fire conditions.

Tapered Polyiso Physical Characteristics and Shipping Information:

Physical Characteristics				Shipping Information (4' x 4') (1.22 m x 1.22 m) 4'x8' (1.22 m x 2.44 m) available upon special request[††]				
Slope	Thickness (Inches/Millimeters)	Size**	Average Thickness (Inches/Millimeters)	Board Feet Per Panel	Boards/ Bundle	Boards/ Truck	Bundle/ Truck	Sq. Ft. Per Truck
1/8" (3.2 mm)	0.5 - 1.0 (12.7 - 25.4)	AA[††]	0.75 (19.1)	12	64	3,072	48	49,152 (4,566 sq. m)
	1.0 - 1.5 (25.4 - 38.1)	A[††]	1.25 (31.8)	20	38	1,824	48	29,184 (2,711 sq. m)
	1.5 - 2.0 (38.1 - 51.0)	B[††]	1.75 (44.5)	28	26	1,248	48	19,968 (1,855 sq. m)
	2.0 - 2.5 (51.0 - 64.0)	C[††]	2.25 (57.2)	36	20	960	48	15,360 (1,427 sq. m)
	2.5 - 3.0 (64.0 - 76.2)	D	2.75 (70.0)	44	16	768	48	12,288 (1,142 sq. m)
	3.0 - 3.5 (76.2 - 89.0)	E	3.25 (82.6)	52	14	672	48	10,752 (999 sq. m)
	3.5 - 4.0 (89.0 - 102.0)	F	3.75 (95.3)	60	12	576	48	9,216 (856 sq. m)
	4.0 - 4.5 (102.0 - 114.3)	FF	4.25 (108.0)	68	10	480	48	7,680 (713 sq. m)
3/16" (4.8 mm)	0.5 - 1.25 (12.7 - 31.8)	JJ	0.875 (22.2)	14	50	2,400	48	38,400 (3,567 sq. m)
	1.25 - 2 (31.8 - 51.0)	KK	1.625 (41.3)	26	26	1,248	48	19,968 (1,855 sq. m)
	2.0 - 2.75 (51.0 - 70.0)	LL	2.375 (60.3)	38	20	960	48	15,360 (1,427 sq. m)
	2.75 - 3.5 (70.0 - 89.0)	MM	3.125 (79.4)	50	15	720	48	11,520 (1,070 sq. m)
	1.0 - 1.75 (25.4 - 44.5)	J	1.375 (34.9)	22	34	1,632	48	26,112 (2,426 sq. m)
	1.75 - 2.5 (44.5 - 64.0)	K	2.125 (54.0)	34	22	1,056	48	16,896 (1,570 sq. m)
	2.5 - 3.25 (64.0 - 82.6)	L	2.875 (73.0)	46	16	768	48	12,288 (1,142 sq. m)
	3.25 - 4.0 (82.6 - 102.0)	M	3.625 (92.1)	58	12	576	48	9,216 (856 sq. m)
1/4" (6.35 mm)	0.5 - 1.5 (12.7 - 38.1)	X[††]	1.0 (25.4)	16	48	2,304	48	36,864 (3,425 sq. m)
	1.5 - 2.5 (38.1 - 64.0)	Y[††]	2.0 (51.0)	32	24	1,152	48	18,432 (1,712 sq. m)
	2.5 - 3.5 (64.0 - 89.0)	Z[††]	3.0 (76.2)	48	16	768	48	12,288 (1,142 sq. m)
	3.5 - 4.5 (89.0 - 114.3)	ZZ	4.0 (102.0)	64	12	576	48	9,216 (856 sq. m)
	1.0 - 2.0 (25.4 - 51.0)	G	1.5 (38.1)	24	32	1,536	48	24,576 (2,283 sq. m)
	2.0 - 3.0 (51.0 - 76.2)	H	2.5 (64.0)	40	18	864	48	13,824 (1,284 sq. m)
	3.0 - 4.0 (76.2 - 102.0)	I	3.5 (89.0)	56	12	576	48	9,216 (856 sq. m)
3/8" (9.5 mm)	0.5 - 2.0 (12.7 - 51.0)	SS	1.25 (31.8)	20	38	1,824	48	29,184 (2,711 sq. m)
	2.0 - 3.5 (51.0 - 89.0)	TT	2.75 (69.9)	44	16	768	48	12,288 (1,142 sq. m)
	1.0 - 2.5 (25.4 - 64.0)	S	1.75 (44.5)	28	27	1,296	48	20,736 (1,926 sq. m)
1/2" (12.7 mm)	0.5 - 2.5 (12.7 - 64.0)	Q[††]	1.5 (38.1)	24	32	1,536	48	24,576 (2,283 sq. m)
	2.5 - 4.5 (64.0 - 114.3)	QQ	3.5 (89.0)	56	12	576	48	9,216 (856 sq. m)
	1.0 - 3.0 (25.4 - 76.2)	XX	2.0 (51.0)	32	22	1,056	48	16,896 (1,570 sq. m)

[**] Availability for these tapered panel systems may vary for each region.
[††] 4' x 8' tapered panels are made upon special request at all Siplast Polyiso Manufacturing facilities in all Paratherm® products. Certain run minimums will apply. The piece count per bundle remains the same as in a 4' x 4' bundle. The boards per truck and bundles per truck would be half the numbers reflected above.