

# PARATHERM® TAPERED & PARATHERM® W TAPERED POLYISOCYANURATE

## Commercial Product Data Sheet



Paratherm® tapered panels are sloped rigid roof insulation boards comprised of a closed cell polyisocyanurate foam core bonded on each side to a fiber-reinforced organic felt facer.

Contact Siplast for information on approved product uses.

### USES: RIGID INSULATION

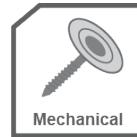
<b>Standards</b>	ASTM C1289 Type II Class 1, Grade 2 (20 psi) & Grade 3 (25 psi)
<b>Panel Dimensions</b>	4 ft x 4 ft (1.22 m x 1.22m)
<b>Thickness/Taper*</b>	Fill: 1 in – 4 in (2.54 cm - 10.2 cm) Slope: 1/8" (1.6 mm) 1/4" (6.3 mm) 1/2" (12.7 mm)

\*Available in 1/16", 3/16", or 3/8" per foot slope upon request.

### PRODUCT INFORMATION

#### Application

Refer to the applicable Siplast Technical Guide for detailed application information.



For optimal thermal and roof system performance, Siplast recommends using multiple layers of polyisocyanurate with staggered joints.

#### Storage and Handling

Material should be carefully coordinated with the schedule for roofing operations to minimize job site storage time. Upon delivery, the factory packaging should be removed or slit on all four sides to allow for ventilation and to prevent the accumulation of condensation. Interior storage offering dry, well-ventilated conditions should be considered when the product is to be stored for more than 14 days prior to installation. When short-term job site storage is necessary, Paratherm should be stored flat on raised pallets or platforms at least 4 inches above the ground. Pallets should be stored on a finished surface rather than on dirt or grass to avoid upward transpiration of moisture. Pallets should be covered with a breathable, waterproof covering in all cases.

See product packaging and the Safety Data Sheet for specific information on the safe handling of this product.

#### Packaging

Factory packaging includes plastic wrap, plastic bag, or both.

#### Listings, Approvals, & Certifications



**PARATHERM® TAPERED & PARATHERM® W  
TAPERED POLYISOCYANURATE**

Physical and Mechanical Properties



Property (As Manufactured)	Value/Units	Test Method
Compressive Strength*	Grade 2 (20 psi), min. Grade 3 (25 psi), min.	ASTM D1621
Dimensional Stability**	< 2%, max.	ASTM D2126
Tensile Strength	≥ 500 psi (24 kPA), min.	ASTM D1623
Flexural Strength	40 psi (275 kPA), min.	ASTM C203
Water Absorption	< 1.5%, max.	ASTM C209
Service Temperature	-100° - 250°F (-73.3° - 121.2°C)	N/A
Moisture Vapor Transmission	< 1.5 perm, max.	ASTM E96 (Procedure A)
Flame Spread Index	< 75***	ASTM E84 / UL 723
Smoke Developed Index	< 200**	ASTM E84 / UL 723

\* Foam core.

\*\* Stated dimensional stability tolerance: Board thickness shall not diminish by more than 2% max.

\*\*\* This numerical rating is not intended to reflect hazards presented by these or any other material under actual fire conditions.

**TYPICAL PROPERTIES AND CHARACTERISTICS**

Slope	Panel Type	Min. Thickness	Max. Thickness	Avg. Thickness	BD Feet/Panel
1/8" (3.2 mm)	A	1" (25.4 mm)	1.5" (38.1 mm)	1.25" (31.75 mm)	20
	AA	0.5" (12.7 mm)	1" (25.4 mm)	0.75" (19.1 mm)	12
	B	1.5" (38.1 mm)	2" (50.8 mm)	1.75" (44.5 mm)	28
	C	2" (50.8 mm)	2.5" (63.5 mm)	2.25" (57.2 mm)	36
	D	2.5" (63.5 mm)	3" (76.2 mm)	2.75" (69.9 mm)	44
	E	3" (76.2 mm)	3.5" (88.9 mm)	3.25" (82.6 mm)	52
	F	3.5" (88.9 mm)	4" (101.6 mm)	3.75" (95.3 mm)	60
	FF	4" (101.6 mm)	4.5" (114.3 mm)	4.25" (108 mm)	68
1/4" (6.35 mm)	X	0.5" (12.7 mm)	1.5" (38.1 mm)	1" (25.4 mm)	16
	Y	1.5" (38.1 mm)	2.5" (63.5 mm)	2" (50.8 mm)	32
	Z	2.5" (63.5 mm)	3.5" (88.9 mm)	3" (76.2 mm)	48
	ZZ	3.5" (88.9 mm)	4.5" (114.3 mm)	4" (101.6 mm)	64
	G	1" (25.4 mm)	2" (50.8 mm)	1.5" (38.1 mm)	24
	H	2" (50.8 mm)	3" (76.2 mm)	2.5" (63.5 mm)	40
	I	3" (76.2 mm)	4" (101.6 mm)	3.5" (88.9 mm)	56
1/2" (12.7 mm)	Q	0.5" (12.7 mm)	2.5" (63.5 mm)	1.5" (38.1 mm)	24
	QQ	2.5" (63.5 mm)	4.5" (114.3 mm)	3.5" (88.9 mm)	56
	XX	1" (25.4 mm)	3" (76.2 mm)	2" (50.8 mm)	32

Contact Siplast for typical properties and characteristics related to tapered panels not listed in the chart above.