

SOPRA-ISO[®] r TAPERED

Rigid Polyisocyanurate Thermal Insulation Panel

PRODUCT DATA SHEET PDS10308 - REV 230926



APPLICATIONS

ROOFING

PRODUCT NUMBERS:

For ordering information contact customer service.

DESCRIPTION & FEATURES:

SOPRA-ISO r TAPERED is a rigid polyisocyanurate thermal insulation board for use in approved multi-ply membrane assemblies. **SOPRA-ISO r TAPERED** is composed of closed cell polyisocyanurate foam bonded to fiber reinforced glass/organic mat facers on the top and underside. **SOPRA-ISO r TAPERED** is designed to promote positive drainage and prevent ponding water.

- Available in two grades of compressive strengths per ASTM C 1289 Type II, Class 1 Grade 2 (20 psi) or Grade 3 (25 psi)
- Available slopes are 1/16 in (2 mm), 1/8 in (3 mm), 3/16 in (5 mm), 1/4 in (6 mm), 3/8 in (10 mm) and 1/2 in (13 mm) per foot
- Available in 4 in x 4 in (1220 mm x 1220 mm) and 4 in x 8 in (1220 mm x 2440 mm) panels in thicknesses of 1/2 in (13 mm) to 4.5 in (114 mm)
- Has the highest R-value per inch compared to any other type of non-polyiso insulation of equivalent thickness
- Lightweight and easy to handle, can be cut with a utility knife or saw
- Compatible with most construction adhesives, roof and wall coverings and attachment systems
- Manufactured with NexGen Chemistry: Contains no CFCs, HFC, HCFCs, is Zero ODP, EPA Complaint, and has virtually no GWP

APPLICATION:



URETHANE
ADHESIVE



MECHANICALLY
FASTENED



HOT
ASPHALT

Prior to installation, ensure all **SOPRA-ISO r TAPERED** panels have not been subject to moisture. Butt edges and stagger joints of adjacent panels. Secure boards to substrate using mechanical fasteners, insulation adhesive or hot asphalt. For approvals and listings to meet project-specific wind rating requirements, contact SOPREMA.

Refer to the SOPREMA Low-Slope Roofing Insulation Technical Manual for complete application guidelines.

STORAGE:

Store board flat on a raised pallet to prevent damage. Store in a clean, dry location and cover as necessary to protect from environmental damage such as extreme cold, heat or moisture. The factory packaging is intended for the protection of the boards during transit and is not intended for job site protection. When product is stored outdoors, the plastic shroud must be slit and the insulation protected by a waterproof, breathable covering such as a tarpaulin.

LIMITATIONS:

Do not apply flame directly to **SOPRA-ISO r TAPERED** when installing a torch-applied modified bitumen system. This product will burn if exposed to an ignition source of sufficient heat and intensity.

DO NOT LEAVE EXPOSED. Install only as much **SOPRA-ISO r TAPERED** as can be covered in the same day.

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TESTING & APPROVALS:

- ASTM C1289, Type II, Class 1, Grade 2 (20 psi) or Grade 3 (25 psi)
- International Building Code (IBC) Chapter 26
- State of Florida Product Approval Number FL 5968
- California Code of Regulations, Title 24, Insulation Quality Standard License #TI-1420
- Miami Dade County Product Control Approved

UNDERWRITERS LABORATORIES INC CLASSIFICATIONS

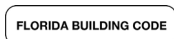
- UL 1256
- Insulated Steel Deck Construction Assemblies – No. 120, 123, 292
- UL 790
- UL 263 Hourly Rated P Series Roof Assemblies

UNDERWRITERS LABORATORIES INC CLASSIFICATIONS

- Refer to UL Directory of Products Certified for Canada for more details
- CCMC 13460-L
- UL Certified for Canada, CAN/ULC-S126, CAN/ULC-S101, CAN/ULC-S107
- CAN/ULC-S704 Type 2, Class 3 (20 psi) or Type 3, Class 3 (25 psi)

FACTORY MUTUAL APPROVALS

- FM 4450, FM 4470
- Approved for Class 1 insulated steel deck constructions for 1-60 to 1-270. Refer to FM Approval's RoofNav for details on specific systems



WARRANTY:

For more information refer to www.SOPREMA.us or contact your SOPREMA representative.

SUSTAINABILITY:



RECYCLED CONTENT	OZONE DEPLETION POTENTIAL (ODP)	ENVIRONMENTAL PRODUCT DATA (EPD)*	HEALTH PRODUCT DECLARATION (HPD)*
Varies with thickness*	0	Yes	No

* Contact your SOPREMA Representative for more information.

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TECHNICAL INFORMATION & TESTING:

SHEET PROPERTIES	
PROPERTY	VALUE
Material	Closed-cell polyisocyanurate foam
ASTM	C1289, Type II Class 1
Surfacing	Organic facers reinforced with glass fibers
Length, ft (m)	4 (1.2), 8 (2.4)*
Width, ft (m)	4 (1.2)
Thickness, in (mm)	0.5 - 4.50 (13 - 114)
Slope, in/ft (mm/ft)	1/16 (2), 1/8 (3), 3/16 (5), 1/4 (6), 3/8 (10), 1/2 (13)

* 4 ft x 8 ft boards are available upon request.

PHYSICAL PROPERTIES*		
PROPERTY	VALUE	ASTM
Compressive strength, psi (kPa)	Grade 2 - 20 (138) Grade 3 - 25 (172)	D1621
Dimensional stability, %	< 2	D2126
Vapor transmission, perm	< 1	E96
Water absorption, %	< 1.0	C209
Flame spread	< 75	E84
Smoke developed	< 450	E84
Service temperature, °F (°C)	-100 to 250 (-73 to 122)	-

* Data is represented by average values, unless noted otherwise

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ROOFING

TAPERED 4 FT X 4 FT PROFILES

SLOPE (inches)	PANEL LABEL	NOMINAL THICKNESS (inches)	PIECES PER BUNDLE
1/16	1	0.5 - 0.75	76
	2	0.75 - 1.0	54
	3	1.0 - 1.25	42
	4	1.25 - 1.5	34
	5	1.5 - 1.75	28
	6	1.75 - 2.0	24
	7	2.0 - 2.25	22
	8	2.25 - 2.5	20
1/8	AA	0.5 - 1.0	64
	A	1.0 - 1.5	38
	B	1.5 - 2.0	26
	C	2.0 - 2.5	20
	D	2.5 - 3.0	16
	E	3.0 - 3.5	14
	FF	4.0 - 4.5	10
3/16	JJ	0.5 - 1.25	54
	KK	1.25 - 2.0	28
	LL	2.0 - 2.75	20
	MM	2.75 - 3.5	14
	J	1.0 - 1.75	34
	K	1.75 - 2.5	22
	L	2.5 - 3.25	16
1/4	M	3.25 - 4.0	12
	X	0.5 - 1.5	48
	Y	1.5 - 2.5	24
	Z	2.5 - 3.5	16
	ZZ	3.5 - 4.5	12
	G	1.0 - 2.0	32
	H	2.0 - 3.0	18
3/8	I	3.0 - 4.0	12
	SS	0.5 - 2.0	38
	TT	2.0 - 3.5	16
1/2	S	1.0 - 2.5	26
	Q	0.5 - 2.5	32
	QQ	2.5 - 4.5	12
	XX	1.0 - 3.0	24

Panels highlighted in blue are used in extended panel tapered systems.

