

# SOPRA-ISO<sup>®</sup> s 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 s TAPERED** is a rigid polyisocyanurate thermal insulation board for use in approved multi-ply membrane assemblies. **SOPRA-ISO s TAPERED** is a rigid roof insulation board composed of a closed-cell polyisocyanurate foam core bonded in the foaming process to universal fiber glass reinforced facers. **SOPRA-ISO s TAPERED** is designed to promote positive drainage and prevent ponding water.

- Available in two grades of compressive strengths per ASTM C1289 Type II, Class 1 Grade 2 (20 psi) or Grade 3 (25 psi)
- Available in 4 ft x 4 ft (1.2 m x 1.2 m) panels in thicknesses with 1/8 in (3 mm), 1/4 in (6 mm) and 1/2 in (12 mm) per foot slope
- 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 using CFC-free, HCFC-free, and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and virtually no global warming potential (GWP)

## APPLICATION:



URETHANE  
ADHESIVE



MECHANICALLY  
FASTENED



HOT  
ASPHALT

Prior to installation, ensure all **SOPRA-ISO s 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 s 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 s TAPERED** as can be covered in the same day.

# SOPRA-ISO<sup>®</sup> s TAPERED

Rigid Polyisocyanurate Thermal Insulation Panel



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PDS10308 - REV 230926

## TESTING & APPROVALS:

- ASTM C1289, Type II, Class 1, Grade 2 (20 psi) or Grade 3 (25 psi)
- CAN/ULC-S704, Type 2, Class 3 or Type 3, Class 3
- CCMC No. 12423-L
- UL Certified for Canada - Insulated Roof Deck Assemblies Construction No C38 and 52. Meet CAN/ULC-S126, CAN/ULS-S101 and CAN/ULC-S107
- UL Standard 1256 Classification Construction No. 120, 123, & 292
- UL Standard 790 (ASTM E108) Roofing Systems Classification
- UL Standard 263 (ASTM E119) Fire Resistance Classification
- UL Standard 1897 Uplift Resistance
- FM Standard 4450/4470 Approved Refer to FM Approvals RoofNav for Specific System Details
- IBC Chapter 26 & NBC Sections on Foam Insulation
- California State Insulation Quality Standards and Title 25 Foam Flammability Criteria (License #TC 1231)
- Miami-Dade County Approved
- State of Florida Product Approval (FL17989)
- Has achieved GREENGUARD GOLD Certification



## WARRANTY:

For more information refer to [www.SOPREMA.us](http://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, refer to LEED product sheet	0	Yes	No

\* EPD and HPD sheets are available at [soprema.us](http://soprema.us)

# SOPRA-ISO<sup>®</sup> s TAPERED

Rigid Polyisocyanurate Thermal Insulation Panel



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PDS10308 - REV 230926

## TECHNICAL INFORMATION & TESTING:

SHEET PROPERTIES	
PROPERTY	VALUE
<b>Material</b>	Closed-cell polyisocyanurate foam
<b>ASTM</b>	C1289, Type II Class 1
<b>Surfacing</b>	Organic facers reinforced with glass fibers
<b>Length, ft (m)</b>	4 (1.2)
<b>Width, ft (m)</b>	4 (1.2)
<b>Thickness, in (mm)</b>	1 - 4.0 (25.2 - 101.6)
<b>Slope, in/ft (mm/ft)</b>	1/8 (3), 1/4 (6), 1/2 (12)

PHYSICAL PROPERTIES*		
PROPERTY	VALUE	ASTM
<b>Compressive strength, psi (kPa)</b>	Grade 2 - 20 (140) Grade 3 - 25 (172)	D1621
<b>Dimensional stability, %</b>	< 2	D2126
<b>Tensile strength, psf (kPa)</b>	> 730 (35)	D1623
<b>Product density, pcf (kg/m<sup>3</sup>)</b>	Nominal 2.0 (32.04)	D1622
<b>Vapor transmission, perm</b>	< 1.5	E96
<b>Water absorption, %</b>	< 1.5, < 3.5	C209 / D2842
<b>Flame spread, core**</b>	40 - 60	E84
<b>Smoke developed, core**</b>	50 - 170	E84
<b>Service temperature, °F (°C)</b>	-100 to 250 (-73 to 122)	-

\* Data is represented by average values, unless noted otherwise

\*\* Numerical ratings are not intended to reflect performance under actual fire conditions. Flame spread index of ≤75 and smoke development ≤450 meet code requirements for foam plastic roof insulation. Codes exempt foam plastic insulation when used in FM 4450 or UL 1256. Physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation

## STANDARD THICKNESSES & THERMAL VALUES

PANEL LABEL	NOMINAL THICKNESS		AVERAGE		SLOPE	
	INCHES	MILLIMETERS	LTTR-VALUE*	RSI**	PER FT	PERCENT
AA	0.5 - 1.0	12 - 25	4.3	0.76	1/8	1
A	1.0 - 1.5	25 - 38	7.1	1.25	1/8	1
B	1.5 - 2.0	38 - 50	10.0	1.76	1/8	1
C	2.0 - 2.5	50 - 63	12.9	2.27	1/8	1
X	0.5 - 1.5	12 - 38	5.7	1.00	1/4	2
Y	1.5 - 2.5	38 - 63	11.4	2.01	1/4	2
Q	0.5 - 2.5	12 - 63	8.6	1.51	1/2	4

\*\* LTTR (long term thermal resistance) values were determined in accordance with CAN/ULC-S770-09. Test samples were third-party selected and tested by an accredited material testing laboratory. The LTTR results were reviewed by FM Global and certified by the PIMA Quality Mark Program.

\*\*\* RSI is the metric expression of R-value (m<sup>2</sup>·K/W)

