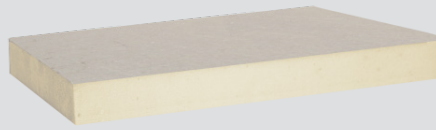


# SOPRA-ISO+<sup>®</sup> r

Rigid Polyisocyanurate Thermal Insulation Panel



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PDS10310 - REV 230926

## PRODUCT NUMBERS:

*For ordering information contact customer service.*

## DESCRIPTION & FEATURES:

**SOPRA-ISO+ r** is a rigid polyisocyanurate thermal insulation board used in approved multi-ply membrane assemblies. **SOPRA-ISO+ r** comprises a closed-cell polyisocyanurate foam core bonded to polymer-coated glass fiber-reinforced facers.

- Available in two grades of compressive strengths per ASTM C 1289 Type II, Class 2 Grade 2 (20 psi) or Grade 3 (25 psi)
- 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 in (25 mm) to 4.5 in (114 mm)
- Manufactured with a light and dark side that allows for faster or slower adhesive flash-off times
- 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** 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:

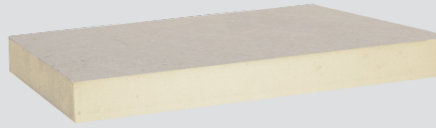
Store board flat on a raised pallet to prevent damage. Store in a clean, dry location and cover as necessary to protect from environmental damage such as extreme cold, heat or moisture. The factory packaging is intended for the protection of the boards during transit and is not intended for job site 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** 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** as can be covered in the same day.

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## TESTING & APPROVALS:

- ASTM C 1289 Type II, Class 2 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 Class A at 1 inch thickness
- 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](http://www.SOPREMA.us) or contact your SOPREMA representative.

## SUSTAINABILITY:

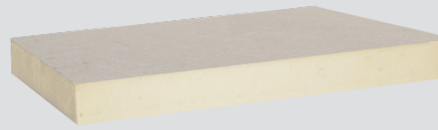


RECYCLED CONTENT	OZONE DEPLETION POTENTIAL (ODP)	ENVIRONMENTAL PRODUCT DATA (EPD)*	HEALTH PRODUCT DECLARATION (HPD)*
Varies with thickness*	0	Yes	No

\* Contact your SOPREMA Representative for more information.

# SOPRA-ISO+<sup>®</sup> r

Rigid Polyisocyanurate Thermal Insulation Panel



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PDS10310 - REV 230926

## TECHNICAL INFORMATION & TESTING:

SHEET PROPERTIES	
PROPERTY	VALUE
<b>Material</b>	Closed-cell polyisocyanurate foam
<b>ASTM</b>	C1289, Type II Class 2
<b>Surfacing</b>	Polymer-coated glass fiber-reinforced facer
<b>Length, ft (m)</b>	4 (1.2), 8 (2.4)
<b>Width, ft (m)</b>	4 (1.2)
<b>Thickness, in (mm)</b>	1 - 4.50 (25 - 114)

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

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

\*\* Meets the requirements of the IBC code for specific Flame Spread or Smoke Developed Ratings

## STANDARD THICKNESSES & THERMAL VALUES

NOMINAL THICKNESS		LTTR R-VALUE*	METAL DECK FLUTE SPANABILITY
INCHES	MILLIMETERS		INCHES
1.00	25	5.7	2.625
1.50	38	8.6	4.375
1.80	46	10.3	4.375
2.00	51	11.4	4.375
2.50	64	14.4	4.375
2.60	66	15.0	4.375
3.00	79	17.4	4.375
3.50	89	20.5	4.375
3.80	97	22.3	4.375
4.00	102	23.6	4.375
4.30	109	25.5	4.375
4.50	114	26.8	4.375

\* Long Term Thermal Resistance Values are based on ASTM C1289

