

# 2-1 SOPRASMART® ISO HD

Polyisocyanurate Cover Board with SBS-Modified Bitumen Base Membrane

PRODUCT DATA SHEET PDS10218 - REV 231128



APPLICATIONS

ROOFING

## PRODUCT NUMBERS:

- 09978 - 8 x 3 ft (2.44 x 0.914 m) - Sanded
- 09981 - 8 x 3 ft (2.44 x 0.914 m) - Flam

*For ordering 16 foot lengths contact customer service.*

## DESCRIPTION & FEATURES:

- 2-1 SOPRASMART HD** is a high performance panel of an SBS-modified bitumen base membrane and high density polyisocyanurate insulation board. The **2-1 SOPRASMART HD** is designed for use in approved multi-ply roof membrane assemblies.
- Available at a 1/2 thickness in 8 or 16-foot lengths, surfaced with a flam or sanded base sheet to accommodate cap sheet application
  - Utilizes a factory-laminated technology to combine SBS base plies with polyisocyanurate insulation board
  - With the ability to install a cover board and base ply in one step contractors can realize time and labor savings
  - Superior waterproofing thanks to DUO SELVEDGE, that features a partially self-adhered lap (60% of the side lap) leaving only 40% to be heat welded

## APPLICATION:



URETHANE  
ADHESIVE



MECHANICALLY  
FASTENED



HOT  
ASPHALT

Prior to installation, unfold **2-1 SOPRASMART HD** onto the roof surface and allow to relax. **2-1 SOPRASMART HD** is installed via mechanical fastening, approved adhesive or hot asphalt following manufacturer specifications. When installing via mechanical fastening, **2-1 SOPRASMART HD** is fastened through the patented DUO SELVEDGE lap following the details for the uplift pressure required.

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

## STORAGE:

Store boards flat on a 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. Extra caution should be taken to ensure the DUO SELVEDGE side laps are not damaged during transportation and application.

## TESTING & APPROVALS:



FLORIDA BUILDING CODE

## WARRANTY:

For more information refer to [www.SOPREMA.us](http://www.SOPREMA.us) or contact your SOPREMA representative.

# 2-1 SOPRASMART® ISO HD

Polyisocyanurate Cover Board with SBS-Modified Bitumen Base Membrane

PRODUCT DATA SHEET PDS10218 - REV 231128



APPLICATIONS

ROOFING

## TECHNICAL INFORMATION & TESTING:

| TYPICAL PROPERTIES          |   |
|-----------------------------|---|
| PROPERTY                    | VALUE   |
| Elastomeric bitumen         | Proprietary blend of bitumen and SBS polymers |
| Membrane reinforcement      | Non-woven polyester                           |
| Top surfacing               | Polyolefin film or silica sand                |
| Bottom surfacing            | Polyisocyanurate panel                        |
| Selvage width, in (mm)      | 3.5 (90)                                      |
| Selvage thickness, mil (mm) | 87 (2.2)                                      |

| DIMENSIONS & MASS*           |                                  |                      |                       |                      |
|------------------------------|----------------------------------|----------------------|-----------------------|----------------------|
| PROPERTY                     | SANDED                           |                      | FLAM                  |                      |
|                              | Support panel dimensions, ft (m) | 3 x 8 (0.914 x 2.44) | 3 x 16 (0.914 x 4.88) | 3 x 8 (0.914 x 2.44) |
| Boards per pallet            | 70                               | 36                   | 70                    | 36                   |
| Membrane thickness, mil (mm) | 87 (2.2)                         |                      |                       |                      |
| Board thickness, in (mm)     | 0.5 (12.7)                       |                      |                       |                      |
| Total thickness, in (mm)     | 0.6 (14.9)                       |                      |                       |                      |

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

| MEMBRANE PROPERTIES*                       |            |           |                  |
|--|------------|-----------|------------------|
| PROPERTY                                   | MD         | XMD       | ASTM TEST METHOD |
| Peak load @ 0°F (-18°C), lbf/in (kN/m)     | 110 (19.3) | 85 (14.9) | D5147            |
| Elongation at peak load @ 0°F (-18°C), %   | 35         | 40        | D5147            |
| Peak load @ 73.4°F (23°C), lbf/in (kN/m)   | 85 (14.9)  | 65 (11.4) | D5147            |
| Elongation at peak load @ 73.4°F (23°C), % | 55         | 60        | D5147            |
| Ultimate elongation @ 73.4°F (23°C), %     | 60         | 65        | D5147            |
| Tear strength @ 73.4°F (23°C), lbf (N)     | 125 (556)  | 85 (378)  | D5147            |
| Low temperature flexibility, °F (°C)       | -15 (-26)  | -15 (-26) | D5147            |
| Dimensional stability, %                   | < 0.5      | < 0.5     | D5147            |
| Compound stability, °F (°C)                | 240 (116)  | 240 (116) | D5147            |

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

| POLYISO PROPERTIES*  |           |       |
|--|-----------|-------|
| PROPERTY   | VALUE     | ASTM  |
| R-value/inch @ 75°F, hr-ft²-F/Btu<br>(RSI value/inch @ 24°C, m² K/w) | 2.5 (0.4) | C518  |
| Compressive strength, psi (kPa)                                      | 100 (689) | D1621 |
| Dimensional stability, %   | < 0.5     | D2126 |
| Water absorption, %  | < 3.0     | C209  |
| Resistance to mold   | Pass      | D3273 |

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