



# SOPRA-ISO

SOPRA-ISO (186)

Order No. \*

\* Contact a Soprema Customer Service Representative

## DESCRIPTION

SOPRA-ISO is a rigid foam plastic thermal insulation board composed of a polyisocyanurate foam core bonded to glass fiber/organic mat facers on each side. SOPRA-ISO is approved for use in new roofing constructions and limited retrofit roofing constructions over approved deck types.

## INSTALLATION & APPLICATION

Each SOPRA-ISO panel must be secured to the deck with either FM Approvals Approved fasteners and plates (appropriate to the deck type), mopping of hot asphalt, acceptable insulation adhesive or approved base sheets over nailable decks. Butt edges and stagger joints of adjacent and subsequent overlay panels.

Specify and install a suitable coverboard of mineral rockwool, wood fiberboard, perlite (min. 3/4"), high density gypsum or Sopraboard (asphalt impregnated fiberglass reinforced board) or suitable base sheet over the SOPRA-ISO. The use of specific boards listed above are mandatory when heat welding or hot asphalt applying a Soprema SBS membrane system in combination with the polyisocyanurate panel.

When installing a membrane system with cold adhesive, cover boards are typically required. Contact the Technical Department or refer to current General Requirements, Product Data Sheets and Approved Details.

## STANDARD SIZES

- Available in 4'x4' (1220mm x 1220mm) and 4'x8' (1220mm x 2440mm) panels in thickness of 1" (25 mm) to 4.0" (102 mm) in flat stock.
- Available in 20 PSI (SOPRA-ISO-20) and 25 PSI (SOPRA-ISO-25).
- Available in 1/8", 1/4", and 1/2" tapered stock.

## WARNINGS & LIMITATIONS

SOPRA-ISO must be protected from open flame and kept dry at all times. Install only as much insulation as can be covered the same day by completed roof covering material. Soprema, Inc. will not be responsible for specific building and roof design by others, for deficiencies in construction or workmanship, for dangerous conditions on the job site or for improper storage and handling. Technical specifications shown in this literature are intended to be used as general guidelines only. Please call the Soprema Technical Department at 1-800-356-3521 for specifics.



### SOPRA-ISO THERMAL VALUES

THICKNESS INCHES	WEIGHT PER SQUARE	R VALUE	C VALUE	FLUTE SPANABILITY
1.0"	17	6.00	.167	2 5/8"
1.5"	25	9.00	.100	3 3/8"
1.6"	27	9.60	.090	3 3/8"
1.8"	30	10.90	.080	3 3/8"
2.0"	34	12.10	.070	3 3/8"
2.5"	40	15.30	.055	3 5/8"
2.7"	43	16.60	.050	3 5/8"
3.0"	48	18.50	.044	3 5/8"
3.3"	55	20.40	.040	3 5/8"
3.5"	59	21.70	.038	3 5/8"
4.0"	67	25.00	.033	3 5/8"

### APPROVALS / COMPLIANCES

#### Underwriters Laboratories (UL)

UL Classified component of Class A Roof Systems: Built-Up and Modified Bitumen (UL 790).

Qualified for hourly rated P series roof assemblies: P225, P230, P259, P510, P701, P717, P719, P727, P728, P801, P815, P819, P828 & P832 (UL 263). SOPRA-ISO may be suitable for additional P-Assemblies. Please call the Soprema Technical Department at 1-800-356-3521 for specifics. UL File number is R11436.

#### FM Global (FM)

M-Shield is FM Class 1 Approved for Class 1-60 and 1-90 constructions with Built-Up roof coverings subject to conditions of approval described in the current FM Global Approval Guide and supplements. SOPRA-ISO may be suitable for additional construction approvals. Please call Soprema Corporate Technical Department at 1-800-356-3521 for specifics.

#### Federal Specifications

SOPRA-ISO meets ASTM C 1289-03, Type II, Class 1, Grade 2 (20 psi) and Grade 3 (25 psi). National Building Code (1998) Section 2603 Building Officials and Code Administration International, Inc.

NOTE: Federal Specifications HH-I-1972/GEN and HH-I-1972/2, Class 1 have been cancelled.

Code approval work is perpetual. Contact Soprema Corporate Technical Department at 1-800-356-3521 for the latest approvals and approval updates.

### WARRANTY

SOPREMA offers several warranty options dependent upon membrane combinations, system assembly, and environmental conditions. Contact your local SOPREMA representative for project warranty offerings.