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Roofing

February 2009

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## SOPREMA SOPRALENE FLAM STICK INSULATED ROOFING SYSTEM

**DESCRIPTION:**

Sopralene Flam Stik is used to construct an insulated roof system consisting of a double layer membrane , self adhesive and then torch applied over insulation systems for flat/low pitch roofs. (also known as Sopralene Stik).

**Features:**

40mm ‘H’ grade expanded polystyrene or extruded Polystyrene (eg Dow Plaza deck) or Glass fibreboard.

Self adhesive first layer

Torch applied second layer

Flexible

**Benefits:**

- Gives minimum R-value of 1.5 (thicker polystyrene can be used for greater R-value – refer chart on page 2).
- Provide sound reduction (rain noise).
- Reduces risk of joint popping. Polystyrene sheets insulate against ply and structure movement.
- Easy application
- Fast
- Simple application
- Fully bonded
- Sopralene systems are SBS rubber modified for long term flexibility and durability. Ability to take repeated stress and strain without peaking.

**RECOMMENDED**

**USES:**

- Double layer flexible sheet waterproofing on Flat and or low pitch roofs up to 20% pitch.
- Over concrete and well fixed plywood.
- Post applying insulation to un-insulated roofs

**COMPONENTS:**

- a) Insulation  
‘H’ grade polystyrene thickness depending on R-value required (minimum 40mm – R-value 1.5; or similar).
- b) First Layer  
Sopralene Flam Stick 2.5mm polyester/glass reinforced elastomeric bituminous based membrane.
- c) Second Layer  
Sopralene Flam 180AR 4mm non-woven polyester reinforced elastomeric based membrane.

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## SOPREMA FLAM STICK (cont'd)

### SURFACE PREPARATION:

#### Concrete

Allow full 28 days cure time after concrete pour. U3 concrete finish specified or acid etch, grind or shot blast to prepare concrete prior to priming.

#### Plywood

Fixing of plywood is critical. Plywood should be:

- CCA treated, Minimum 17.5mm

Joints should be butted and staggered. Sheet should be glued and screw fixed (preferably). Fixing should be 200mm centres exterior of sheet and 300mm centres interior of sheet. Fixing heads should be sub-surface.

### INSULATION:

Polystyrene sheets (2400 x 1200mm or other sizes) should be laid over the substrate butted and joints staggered. Spot adhere using Sopracolle 300N adhesive. Do not glue the edges together.

### MEMBRANE:

#### First Layer

Sopralene Flam Stick is bonded directly to the polystyrene by removing release paper from underside. The joints of the Flam Stick is achieved in two steps:

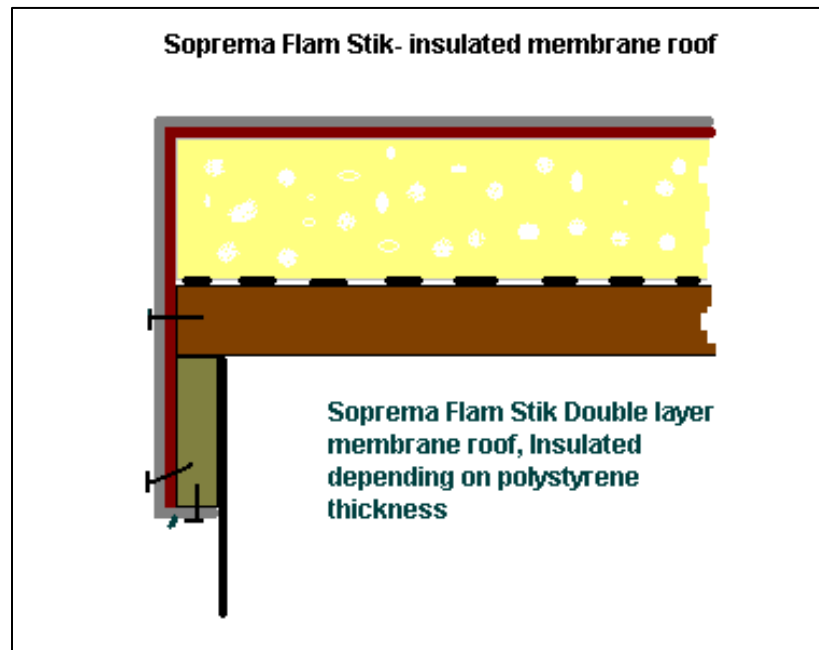
- a) Self-adhesive part is adhered to joining sheet.
- b) Hot-torch is used to adhere the second part of the joint.

Total joint width = 80mm. (Refer colour brochure.)

#### Second Layer -Sopralene Flam 180AR

Hot torch apply directly to the Flam Stick with 75mm side laps and 150mm end laps. Hot tool chamfer all edges.

Note: Stagger all joints between two layers to ensure joint do not line up.



**R VALUE CHART:**

<b>'H' GRADE POLYSTYRENE THICKNESS</b>	<b>R VALUE</b>
40mm	1.0
60mm	1.5
80mm	2.0
100mm	2.5
120mm	3.0

Note: No added value for other components of roofing system; (or similar R-rating & thicknesses.)

**WARRANTY:**

Sopralene Flam Stick complies with the 15 year roofing requirement relating to E2/AS1. Material and specification warranty provided by Soprema. Additional joint warranties provided by the contractor and Nuplex Industries.