

SOPRASTAR FLAM HD GR

SOPRASTAR STICK HD GR

SOPRASTAR HD GR SANDED

Description: *SOPRASTAR FLAM HD GR*, *SOPRASTAR STICK HD GR* and *SOPRASTAR HD GR SANDED* membranes are heavy duty composite reinforced cap sheet with highly reflective white slate flakes. These slates help cool down the surface temperature of the roofing system by reflecting the sun's rays and consequently extending its service life. The installation of **SOPRASTAR** membranes on several roofs in urban areas could significantly help in the reduction of the urban heat island effect.

- Advantages:**
- Part of the best most durable and sustainable solutions available in the Canadian marketplace today.
 - **SOPRASTAR** membranes contain **no coatings**.
 - The installation of this roofing membrane system is identical to the membrane systems presently available in **SOPREMA**'s roofing systems catalogue.
 - **No additional** training required for installation.
 - **SOPRASTAR** membranes can be recovered to prolong the membrane roofing system's useful service life by simply adding an additional ply of membrane over the existing roofing system.
 - Repairs or addition to roof top equipment is treated the same as all other **SOPREMA** cap sheets by using modified bitumen membrane highly reflective white slate flakes.
 - White slates provide a highly reflective surface which contributes to reduction of the urban heat island effect.

Installation *SOPRASTAR FLAM HD GR* is installed by heat-welding, *SOPRASTAR STICK HD GR* is a self-adhesive membrane and *SOPRASTAR HD GR SANDED* is installed using **COLPLY ADHESIVE** or **SOPRASPHALTE M** hot SEBS bitumen. The first is installed to a thermofusible plastic film and the two others, to a sanded surface. **SOPRASTAR** cap sheet membranes can be used with all **SOPREMA**'s high performance base sheets such as **SOPRAFIX**, **COLVENT**, **SOPRAPLY**, as well as with its composite panels **XPRESS BOARD**, **XPRESS EPS** and **XPRESS ISO** products.

LEED[®] Solutions: The following are Soprema's solutions using **SOPRASTAR** membranes to meet the requirements of the Canadian Green Building Council's (CaGBC) LEED[®] credit SS7.2 regarding heat island. These are based on information provided by the CaGBC in their document entitled: "Reference Guide Addendum LEED[®] Canada-NC v1.0 – September 2007".

For Steep-Slope (> 2:12)

The CaGBC defines "steep-slope" as a slope greater than 2:12. The SRI (Solar Reflective Index) requirement is 29. The **SOPRASTAR** SRI value is 56. Therefore meeting the steep slope requirements of credit SS7.2.

For Low Slope (< 2:12)

The CaGBC defines low-slope as a slope of 2:12 or less. According to the Credit Interpretation Ruling (CIR) #184, the CaGBC permits a weighted average calculation of the Solar Reflective Index (SRI), which results in a SRI requirement of 66.

Option 1

The combination of the **SOPRASTAR** (SRI=56) for 82% of the roof with a highly reflective roof coating, such as **SOPRASTAR R-NOVA** (SRI=112) for the remaining 18%, this will meet the required weighted average of 66. For more information on **SOPRASTAR R-NOVA** please consult our web site.

Option 2

The combination of the **SOPRASTAR** (SRI=56) for 75% of the roof with Soprema's highly reflective **SOPRASTAR FLAM WF** membrane (SRI=96) for the remaining 25%, this will meet the required weighted average of 66.

Combined Application with Sopranature

A combination of a **SOPRANATURE** green roof system and either **SOPRASTAR** reflective membranes or white coating can also be used to meet the credit SS7.2. For more information consult your local **SOPREMA** representative at 1-877 MAMMOUTH.

Membrane properties:

Properties	SOPRASTAR FLAM HD GR	SOPRASTAR STICK HD GR	SOPRASTAR HD GR SANDED
Thickness (mm)	3.5	3.5	3.5
Dimension (m)	10 x 1	10 x 1	10 x 1
Weight (kg)	39	42.6	40.6
Top face	Highly reflective white slate flakes		
SRI (ASTM E1980) ¹	56		
Underface	Silicone	coated removable plastic film	Sand
Storage	Upright on pallet		
Application method	Heat Welded	Self-adhesive	With adhesive or hot SEBS bitumen

¹ (The reflectivity and emissivity were measured as per ASTM C1549 and C1371 respectively.)

System properties:

Properties	Standards	System with COLVENT BASE-810 base sheet	System with other high performance base sheets ¹ or composite panels ²
Strain energy, MD/XD (kJ/m)	CAN/CGSB-37.56-M 9 th draft	8.4 / 8.3	18.4 / 18.1
Breaking strength, MD/XD (kJ/m)	CAN/CGSB-37.56-M 9 th draft	18 / 16	31.0 / 31.0
Ultimate elongation, MD/XD (%)	CAN/CGSB-37.56-M 9 th draft	55 / 56	60 / 60
Tear resistance (N)	CAN/CGSB-37.56-M 9 th draft	120	205
Static puncture (N)	CAN/CGSB-37.56-M 9 th draft	380	540
Dimensional stability, MD/XD (%)	CAN/CGSB-37.56-M 9 th draft	0.1 / 0.4	0.2 / 0
Plastic flow (°C)	CAN/CGSB-37.56-M 9 th draft	105	105
Cold bending (°C) - initial - 90 days at 70°C	CAN/CGSB-37.56-M 9 th draft	-30 -30	-30 -30

(All values are nominal)

¹ Any of **SOPRAPLY**, **SOPRAFIX** or **COLPLY** base sheet membranes.

² Any of **XPRESS BOARD**, **XPRESS ISO** or **XPRESS EPS** panels.

1.877.MAMMOUTH
www.soprema.ca



NOTE: SOPREMA INC. may modify the composition and/or utilisation of its products without prior notice. Consequently orders will be filled according to the latest specification.