

# **Roof System Assessment Report** of Wind Uplift Resistance

**LLS Document Number:** RAP-DRU240663 **Publication date:** March 25, 2013

**Revised:** 

**Revaluation:** March 25, 2016

Page 1 of 3

## **Manufacturer:**

# SOPREMA INC.

Authorized membrane production sites: Drummondville, QC, Chilliwack, BC, Wadsworth OH, Gulfport MS

## Roofing System Summary: « Sopraboard on wood deck»

Cap sheet membrane:
 Base sheet membrane:
 Sopralene Flam 250 GR or equivalent membrane
 Sopralene Flam 180 or equivalent membrane

Support panel: Sopraboard or equivalent product
 Insulation: Sopra-ISO or equivalent product
 Vapour barrier: Sopravap'r or equivalent membrane

- Thermal barrier: N/A

- Decking: Standard wood deck

- Dynamic Uplift Resistance (DUR) as per CSA A123.21-10 standard:

System A: -4.0 kPa (-83.3 psf)

#### - Notes: **Equivalent products:**

Only equivalent products included into the roofing system's report are admissible.

### **Optional components:**

Components of the roofing system designated as optional may be included or excluded from the roofing system which will not change the published dynamic uplift resistance (DUR).

## Safety factor:

As required by in the CSA A123.21 standard, the published dynamic uplift resistance (DUR) are reduced by a safety factor of 1.5.(SF of 1.5)

#### Admissible wind uplift load calculation:

An online calculator is available at <u>www.sigders.ca</u>. The user will have to provide the following information:

- building location;
- building geometry;
- building exposure;
- building openings;
- building importance factor.

The calculator will display the allowable design load of the roof's field surface, edges and corners as well as the dimensions of the edge and corner zones.

#### **Technical Advisories:**

Assessment reports must be read in conjunction with technical advisories issued by Les Services exp inc.

#### Values

For this document, the metric values are the standard and values in parentheses are for information only.

# Notice

Les Services **exp** inc. reserve their right to withdraw, without prior notice, the test report performed as per CSA A123.21 standard



# Roof System Assessment Report of Wind Uplift Resistance

**LLS Document Number:** RAP-DRU240663 **Publication date:** March 25, 2013

**Revised:** 

**Revaluation:** March 25, 2016

Page 2 of 3

#### **Roofing System's Specific Data:**

**Cap Sheet Membrane:** 

- Cap sheet membrane: Sopralene Flam 250 GR

- Membrane description: SBS modified bitumen membranes with non-woven polyester reinforcement which under-

surface is covered with a thermofusible plastic film and the upper-surface is protected with

coloured granules.

- Equivalents: Sopralene Flam 250 FR GR, Sopralene Flam 180 GR, Sopralene Flam 180 FR GR, Sopralene Flam 250 FR GR, Sopral

Traffic Cap 560, Sopraply Traffic Cap FR 561, Soprafix Traffic Cap 660, Soprafix Traffic Cap FR 661, Colvent Traffic Cap FR 861, Sopralene Mammouth GR, Sopralene Mammouth 5 mm

GR, Soprastar Flam HD GR, Soprastar Flam WF

- Attachment method: Welded

**Base Sheet:** 

- Base sheet membrane: Sopralene Flam 180

- Membrane description: SBS modified bitumen membranes with non-woven polyester reinforcement witch have booth

surfaces is covered with a thermofusible plastic film.

-Equivalents: Sopralene Flam 250, Sopraply Torch Base 520, Elastophene Flam

- Attachment method: Welded

**Support panel:** 

- Type : Sopraboard -Fournisseur : Soprema

- Description: Sopraboard is a semi-rigide panel, composed of a mineral fortified asphaltic core formed

between two saturated fiberglass felt.

-Thickness 3,2 mm (1/8 in.), 4,8 mm (3/16 in.) ou 6,4 mm (1/4 in.)

- Adhesive method Spacing Dynamic Ulift Resistance (DUR):

Duotack Other Observed on test With SF of 1,5

- Système A: 152 mm (6 in.) c.c. N/A -6.0 kPa (-125 psf). -4.0 kPa (-83.3 psf)
- Adhesive type: Duotack is a low-rise two-part urethane adhesive. It can be used to adhere insulation apnel on

surface such as wood, cement, metal and on roofing elastomeric systems and asphaltic

systems too.

**Insulation:** 

- Insulation type: Polyisocyanurate, Sopra-ISO

- Supplier: Soprema Inc.

- Insulation description: Composed of polyisocyanurate plastic foam inserted between two facers with a compressive

strength of 138 kPa (20 psi) in accordance with the ASTM D 1621 standard

- Equivalents: Polyisocyanurate Sopra-ISO PLUS and polystyrene EPS insulation panel.

- Adhesive type: Duotack is a low-rise two-part urethane adhesive. It can be used to adhere insulation apnel on

surfaces such as wood, cement, metal and on roofing elastomeric systems and asphaltic

systems too.152 mm (6 in.) o.c.

**Vapour Barrier:** 

- Vapour barrier: Sopravap'r- Supplier: Soprema Inc.

- Attachment method: Self-adhesive, directly onto decking with Elastocol Stick or Elastocol Stick Zero primer

- Equivalents: Sopralene Stick Adhesive



# Roof System Assessment Report of Wind Uplift Resistance

**LLS Document Number:** RAP-DRU240663 **Publication date:** March 25, 2013

**Revised:** 

**Revaluation:** March 25, 2016

Page 3 of 3

**Decking:** 

- Supplier: CANPLY

- Decking type: Exterior Douglass fir plywood in accordance with CSA 0121, CSA 0151, CSA 0153 standards,

like EASY T&G, DFP select grade.

- Thickness: 17 mm (5/8 in) minimum, correspondent to CSA 0121, CSA 0151, CSA 0153 standards with a

load limit of L/180; 6 kPa (125 psf).

- Equivalents: Other deck with pull-out resistance equivalent to the one specified below.

- Attachment method: The deck's fastening to the supporting structure must be strong enough to resist wind uplift

loads (adjusted as per NBC requirements).