

Document Number:	PUB-DRU206751
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Revised:	2015-04-30
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**Supplier:**



**Mod-Bit Soprafix 630 Ventilated wood deck mechanically attached System, Mechanically Attached Roof System (MARS)**

**Roofing System Summary :**

- Cap sheet membrane: Modified Bituminous Membrane or allowable products
- Base sheet membrane: Modified Bituminous Membrane
- Cover board: Optional
- Insulation: Optional
- Decking: Standard wood(plywood) deck
- Dynamic Uplift Resistance (DUR) as per CSA A123.21:

Description	Test observation reading	With SF of 1.5
<b>System A</b>	-2.4 kPa (-50 psf)	<b>-1.6 kPa (-33 psf)</b>
<b>System B</b>	-2.9 kPa (-60 psf)	<b>-1.9 kPa (-40 psf)</b>
<b>System C</b>	-4.8 kPa (-100 psf)	<b>-3.2 kPa (-67 psf)</b>

*Note :*

**Allow 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 [www.sigders.ca](http://www.sigders.ca). 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 **exp** Services Inc.

**Values**

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

**Notice**

**Exp** Services 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 (ISO 17025)

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### Roofing System's Specific Data:

#### Cap Sheet Membrane:

- Allowable products:	<b>Soprema</b>		
	Sopralene Flam 180 GR	Sopralene Flam 250 GR	Soprastar Flam HD GR
	Sopralene Flam 180 FR GR	Sopralene Flam 250 FR GR	Soprastar Flam HD FR GR
	Sopralene Mammouth GR	Soprafix Traffic Cap 660	Soprafix Traffic Cap FR 661
- Attachment mode:	<b>Heat welded</b>		

#### Base sheet membrane:

- Allowable products:	<b>Soprema</b>		
	Soprafix Base 630		
<b>Mechanically attached Pattern for System A result</b>	Row spacing		Fasteners spacing
	<b>890 mm (35 in.) o.c.</b>		<b>457 mm (18 in.) o.c.</b>
- Attachment type:	Fasteners #14 with #3 deep recesses Phillips head composed of hardened carbon steel and covered with an anticorrosion coating. 20 gauges rounds barbed plate of 50 mm (2 in.), with Galvalume finish		
- Pullout fastener resistance:	<b>214 psi or 442 lbf or 1967 Newton</b>		
- Attachment supplier:	<b>Soprema</b>		
<b>Mechanically attached Pattern for System B result</b>	Row spacing		Fasteners spacing
	<b>890 mm (35 in.) o.c.</b>		<b>305 mm (12 in.) o.c.</b>
- Attachment type:	Fasteners #14 with #3 deep recesses Phillips head composed of hardened carbon steel and covered with an anticorrosion coating. 20 gauges rounds barbed plate of 50 mm (2 in.), with Galvalume finish		
- Pullout fastener resistance:	<b>214 psi or 442 lbf or 1967 Newton</b>		
- Attachment supplier:	<b>Soprema</b>		
<b>Mechanically attached Pattern for System C result</b>	Row spacing		Fasteners spacing
	<b>890 mm (35 in.) o.c.</b>		<b>152 mm (6 in.) o.c.</b>
- Attachment type:	Fasteners #14 with #3 deep recesses Phillips head composed of hardened carbon steel and covered with an anticorrosion coating. 20 gauges rounds barbed plate of 50 mm (2 in.), with Galvalume finish		
- Pullout fastener resistance:	<b>214 psi or 442 lbf or 1967 Newton</b>		
- Attachment supplier:	<b>Soprema</b>		

Cover board (optional):                      *See optional products table*

Insulation (optional):                      *See optional products table*

#### 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).
- Equivalence:	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).



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### Optional Products Table:

#### Cover board:

- Allowable product:	<b>Soprema</b>		
	Sopraboard	Soprarock MD	Soprarock MD+
	<b>Georgia Pacific</b>		
	DensDeck	DensDeck Prime	
	<b>CGC / USG</b>		
	Securock Gypsum Fiber Roof Board		
	<b>Unifix</b>		
	PermaBase Dek		
- Allowable thickness:	Between 6 mm (¼ in.) to 19.5 mm (5/8 in.)		
- Attachment mode:	<b>Loose laid or adhered or mechanically attached</b>		

#### Insulation:

- Allowable products:	<b>Soprema</b>		
	Sopra-Iso	Sopra-Iso +	SopraRock DD
	SopraRock DD Plus	SopraRock MD	SopraRock MD Plus
	<b>Atlas Roofing Corp.</b>		
	ACFoam II	ACFoam III	ACFoam IV
	<b>Johns Manville</b>		
	ENRGY 3	ENRGY 3 CGF	
	<b>Hunter Panels</b>		
	H-Shield	H-Shield CG	
	- Allowable thickness:	Between 25 mm (1 in.) to 203 mm (8 in.)	
- Attachment mode:	<b>Loose laid or adhered or mechanically attached</b>		