

## Roof System Assessment Report of Wind Uplift Resistance (ISO 17025)

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Publication Date:	2015-03-26
Revised:	
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**Supplier:**



### Mod-Bit Sopralene Stick HR GR wood deck Partially Adhered System, Partially Adhered Roof System (PARS)

**Roofing System Summary :**

- Cap sheet membrane: Modified Bituminous Membrane or allowable products
- Cover board: Composite board factory laminated
- Insulation: Optional
- Vapor barrier: Optional
- Thermal barrier: 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>	-2.7 kPa (-56 psf)	<b>-1.8 kPa (-37 psf)</b>
<b>System B</b>	-4.5 kPa (-93 psf)	<b>-3.0 kPa (-62 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.



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### Roofing System's Specific Data:

#### Cap Sheet Membrane:

- Allowable products:	<b>Soprema</b>		
	Sopralene Stick HR GR		
- Attachment mode:	<b>Adhered</b>		
- Attachment type::	Self-adhered membrane		

#### Cover board:

- Allowable products:	<b>Soprema</b>		
	Soprasmart Board 180 Sanded		
- Allowable thickness:	Between 5.4 mm (7/32 in.) to 7 mm (9/32 in.)		
- Attachment mode:	<b>Mechanically attached</b>		
<b>Mechanically attached Pattern for System A 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 round barbed plate of 50 mm (2 in.), with Galvalume finish		
- Pullout fastener resistance:	Minimal reference resistance base on test: <b>442 lbf or 220.5 Kg</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>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 round barbed plate of 50 mm (2 in.), with Galvalume finish		
- Pullout fastener resistance:	Minimal reference resistance base on test: <b>442 lbf or 220.5 Kg</b>		
- Attachment supplier:	<b>Soprema</b>		

**Insulation (optional):**      *See optional products table*

**Vapor barrier (optional):**      *See optional products table*

**Thermal barrier (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:

#### 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>		

#### Vapor barrier:

- Allowable products:	<b>Soprema</b>	
	Sopravap'R	Sopralene Stick Adhesive
- Attachment mode:	<b>Adhered</b>	
- Attachment type::	Self-adhered membrane	

#### Or Vapor barrier (option 1):

- Allowable products:	<b>Soprema</b>		
	Sopralene 180 SP 3.5	Elastophene SP 2.2 mm	
- Attachment mode:	<b>Adhered or mechanically attached</b>		

#### Or Vapor barrier (option 2):

- Allowable products:	<b>Soprema</b>		
	Soprastop	Xpress Vap'R Board	
- Attachment mode:	<b>Adhered or mechanically attached or loose laid</b>		

#### Thermal barrier:

- Allowable products:	<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>		