

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

Document Number:	PUB-DRC303964
Publication Date:	2014-10-23
Revised:	2015-07-09
Revaluation Date:	2017-10-23

### Supplier:



### Mod-Bit PermaBase Dek Duotack Adhered Apply System, Adhered Apply Roofing System (AARS)

### **Roofing System Summary:**

Cap sheet membrane: Modified Bituminous membrane or allowable products Base Sheet Membrane: Modified Bituminous membrane or allowable products

Cover board: Concrete board

Insulation: Polyisocyanurate or allowable products Vapour barrier: Membrane or allowable products

Thermal barrier: Concrete board Steel Deck Decking:

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

Ī	Description	Test observation reading	With SF of 1.5
ſ	System A	-6.5 kPa (-135 psf)	-4.3 kPa (-90 psf)

### 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).

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. 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.

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

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:	Soprema		
	Sopralene Flam 180 GR	Sopralene Flam 250 GR	Soprastar Flam HD GR
	Sopralene Flam 180 FR	Sopralene Flam 250 FR	Soprastar Flam HD FR
	GR	GR	GR
	Sopralene Mammouth GR	Sonranly Traffic Can 560	Sopraply Traffic Cap FR
	Sopralerie Mariinoutii GK	Зоргарту Тапіс Сар 300	561
- Attachment mode:	Heat welded		

### **Base sheet membrane:**

	Soprema		
<ul> <li>Allowable product:</li> </ul>	Sopralene Flam 180	Elastophene Flam	Sopraply Base 520
	Sopralene Flam 250		
- Attachment mode:	Heat welded (required a prime Cover board with Elastocol 500)		

### Cover board:

-	Allowable products:	Unifix			
		PermaBase Dek			
-	Allowable thickness:	lowable thickness: Between 6.3 mm (¼ in.) to 15,9 mm (5/8 in.)			
Ad	hered Attached Pattern	Adhesion mode		Ad	lhesive spacing
	For System A result	Ribbons		305	mm (12 in.) o.c.
-	Adhesive type:	Duotack			
-	Adhesive supplier:	Soprema			

### Insulation:

- Allowable products:	Soprema		
	Sopra-Iso	Sopra-Iso +	
	Atlas Roofing Corp.		
	ACFoam II	ACFoam III	ACFoam IV
	Johns Manville		
	ENRGY 3	ENRGY 3 CGF	
	Hunter Panels		
	H-Shield	H-Shield CG	
<ul> <li>Allowable thickness:</li> </ul>	Between 25 mm (1 in.) to 2	03 mm (8 in.)	
Adhered Attached Pattern	Adhesion mode	e A	dhesive spacing
For System A result	Ribbons	30	5 mm (12 in.) o.c.
- Adhesive type:	Duotack		
- Adhesive supplier:	Soprema		

### Vapour Barrier:

-	Allowable products:	Soprema		
		Elastophene PS 2.2 mm	Sopralene 180 PS 3.5 mm	
-	Attachment mode:	Heat welded (required a primer on allowable thermal barrier or concrete deck		
		with Elastocol 500)		

### Or optional Vapour Barrier:

-	Allowable products:	Soprema	
		Sopravap'R	Sopralene Stick Adhesive
-	Attachment mode:	Adhered (Primer required on allowable thermal barrier wood deck and concrete deck	
		with Elastocol stick or Elastocol Stick Zero)	
-	Attachment type:	Self-adhering membrane	

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### **Thermal barrier:**

-	Allowable products:	Unifix		
	-	PermaBase Dek		
-	Allowable thickness:	Between 6.3 mm (1/4 in.) to 15	5.9 mm (5/8 in.)	
Ad	hered Attached Pattern	Adhesion mode	Α	dhesive spacing
	For System A result	Ribbons	30	5 mm (12 in.) o.c.
-	Adhesive type:	Duotack		
-	Adhesive supplier:	Soprema		

Decking:	
- Type:	Galvanized construction steel or coated with an aluminum/zinc alloy or PVC in accordance with ASTM A653, ASTM A792, ASTM A1008 or CSSBI 10M Standards.
- Supplier:	Generic
- Thickness:	0.76 mm (0.03 in.) minimum, with a yield strength of 230 MPa (33 ksi) and a tensile strength of 310 MPa (45 ksi) commonly defined as being of a 22 gauges minimum thickness.
- Attachment method:	The deck's fastening to the supporting structure must be strong enough to resist wind uplift loads (adjusted as per NBC requirements).
- Fastening uplift resistance (CSA S136.F04):	2.09 kN (470 pf)
Equivalence:	Steel deck thickness of 18 to 22 gauges or wood deck or concrete deck with pullout resistance equal or higher than the Fastening uplift resistance specified above.

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