

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

Document Number:	PUB-DRU241032
Publication Date:	2013-03-04
Revised:	2015-04-28
Revaluation Date:	2018-04-28

Supplier:



Mod-Bit Soprasmart Board 180 Duotack adhered System, Adhesive Applied Roofing System (AARS)

Roofing System Summary :

- Cap sheet membrane: Modified Bituminous membrane
- Composite board: Factory laminated panel
- Insulation: Polyisocyanurate or allowable products
- Vapour barrier: Membrane or allowable products
- Thermal barrier: Optional Steel Deck
- Decking:
- Dynamic Uplift Resistance (DUR)as per CSA A123.21:

Description	Test observation reading	With SF of 1.5
System A	-5.4 kPa (-112 psf)	-3.6 kPa (-75 psf)
System B	-6.3 kPa (-131 psf)	-4.2 kPa (-87psf)
System C	-6.5 kPa (-135 psf)	-4.3 kPa (-90 psf)

Allow products: Notes :

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. 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:

-	Attachment mode:	Heat welded		
		Sopralene Mammouth GR	Sopraply Traffic Cap 560	Sopraply Traffic Cap FR 561
		Sopralene Flam 180 FR GR	Sopralene Flam 250 FR GR	Soprastar Flam HD FR GR
		Sopralene Flam 180 GR	Sopralene Flam 250 GR	Soprastar Flam HD GR
-	Allowable products:	Soprema		

Composite board:

- A	Allowable products:	Soprema			
		Soprasmart Boa	rd 180		
	Adhered Attached Pattern	Adł	nesion mode	Ad	hesive spacing
	For System A result		Ribbons	305	mm (12 in.) o.c.
- A	Attachment type:	Duotack			
- A	Attachment supplier:	Soprema			
	Adhered Attached Pattern	Adł	nesion mode	Ad	hesive spacing
	For System B result		Ribbons	152	mm (6 in.) o.c.
- A	Attachment type:	Duotack			
- A	Attachment supplier:	Soprema			
	Adhered Attached Pattern	Adł	nesion mode	Ad	hesive spacing
	For System C result		Ribbons	102	mm (4 in.) o.c.
- A	Attachment type:	Duotack			
	Attachment 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 CO	GF	
		Hunter Panels			
		H-Shield	H-Shield CG		
		Plasti-Fab			
		PlastiSpan [®] HD Insulation			
-	Allowable thickness:	Between 25 mm (1 in.) to 2	03 mm (8 in.)		
Adl	hered Attached Pattern	Adhesion mode	9	Ac	dhesive spacing
	For System A result	Ribbons		305	mm (12 in.) o.c.
-	Attachment type:	Duotack			
-	Attachment supplier:	Soprema			
	Adhered Attached Pattern	Adhesion mode	9		dhesive spacing
	For System B result	Ribbons		15:	2 mm (6 in.) o.c.
-	Attachment type:	Duotack			
-	Attachment supplier:	Soprema			
	Adhered Attached Pattern	Adhesion mode	9	Ad	dhesive spacing
	For System C result	Ribbons		10:	2 mm (4 in.) o.c.
-	Attachment type:	Duotack			
-	Attachment supplier:	Soprema			



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Vapour Barrier:

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

Or Vapour Barrier optional:

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

Thermal Barrier (optional):

See optional products table

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 pull-out resistance equivalent to the Fastening uplift resistance specified above.

Optional Products Table:

Thermal barrier:

-	Allowable products	CGC / USG			
		Securock Gypsum Fiber boa	rd		
		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	9	A	dhesive spacing
	For System A result	Ribbons		305	5 mm (12 in.) o.c.
-	Attachment type:	Duotack			
-	Attachment supplier:	Soprema			