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

Document Number:	PUB-DRU212868
Publication Date:	2012-03-06
Revised:	2015-05-20
Revaluation Date:	2018-05-20

Supplier:

Mod-Bit Asphalt adhered System, Adhesive Applied 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: Asphaltic board
- Insulation: Polyisocyanurate or allowable products
- Vapour barrier: Membrane or allowable products
- Thermal barrier: Gypsum board or allowable products
- Decking: Steel Deck

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

Description	Test observation reading	With SF of 1.5
System A	-4.5 kPa (-94 psf)	**-3.0 kPa (-63 psf)**

Notes :

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. 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:	Soprema		
	Colply Traffic Cap FR 461	Colply Traffic Cap-FR 451	Sopralene 250 GR
	Colply Traffic Cap-460	Sopralene 180 GR	Sopralene 250 FR GR
	Colply Traffic Cap-450	Sopralene 180 FR GR	
Adhered Attached Pattern	Adhesion mode		Adhesive spacing
For System A result	**Fully adhered**		**No spacing**
- Attachment type: - Attachment supplier:	Asphalt Type II / Sopashlate M **Various / Soprema**		

Base sheet membrane:

- Allowable product:	**Soprema**		
	Elastophene PS	Sopralene 180 PS	Sopraply Base 410
	Elastophene 180 PS	Sopralene 180 Sanded	Sopralene 250 Sanded
	Elastophene 180 Sanded		
Adhered Attached Pattern	Adhesion mode		Adhesive spacing
For System A result	**Fully adhered**		**No spacing**
- Attachment type: - Attachment supplier:	Asphalt Type II / Sopashlate M **Various / Soprema**		

Cover board:

- Allowable products:	**Soprema**		
	Sopraboard		
- Allowable thickness:	Between 3.2 mm (1/8 in.) to 6.4 mm (¼ in.)		
Adhered Attached Pattern	Adhesion mode		Adhesive spacing
For System A result	**Fully adhered**		**No spacing**
- Attachment type: - Attachment supplier:	Asphalt Type II / Sopashlate M **Various / 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	
- Allowable thickness:	Between 25 mm (1 in.) to 203 mm (8 in.)		
Adhered Attached Pattern	Adhesion mode		Adhesive spacing
For System A result	**Fully adhered**		**No spacing**
- Attachment type: - Attachment supplier:	Asphalt Type II / Sopashlate M **Various / Soprema**		

Vapour Barrier:

- Allowable products:	**Soprema**		
-	Elastophene Sanded	Sopralene 180 Sanded	Sopralene 250 Sanded
Adhered Attached Pattern	Adhesion mode		Adhesive spacing
For System A result	**Fully adhered**		**No spacing**
- Attachment type: - Attachment supplier:	Asphalt Type II / Sopashlate M **Various / Soprema**		

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Thermal barrier:

- Allowable product:	**CGC / USG**		
	Securock Gypsum Fiber Board		
	Unifix		
	Georgia Pacific		
	DensDeck	DensDeck Prime	
	Permabase Dek		
- Allowable thickness:	Between 6.4 mm (1/4 in.) to 16 mm (5/8 in.)		
Adhered Attached Pattern	Adhesion mode	Adhesive spacing	
For System A result	**Ribbons**	**305 mm (12 in.) o.c.**	
- Attachment type:	Duotack		
- Attachment 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.