

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

Document Number:	PUB-DRU 292025
Publication Date:	2014-04-17
Revised:	2015-04-30
Revaluation Date:	2018-04-17

Supplier:



Mod-bit membrane with Rock-It adhesive System, Adhered Applied Roof System (AARS)

Roofing System Summary :

- Cap sheet membrane: Roof felts with gravel on surface adhered
- Composite Board 3 in 1: Insulation board, cover board and base sheet membrane
- Vapour barrier: Self-adhering Membrane
- Thermal barrier: Gypsum board
- Decking: Steel Deck

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

Description	Test observation reading	With SF of 1.5
System A	-2.1 kPa(-43.8 psf)	-1.4 kPa(-29 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:

Surface:		Generic
- Allowable products:	Gravel	
Adhered Attached Pattern	Adhesion mode	Adhesive spacing
For System A result	Fully adhered	No spacing
- Attachment type:	BURmastic ROCK-IT	
- Attachment supplier:	Tremco	

Cap Sheet Membrane:		IKO
- Allowable products:	Modiflex MP 180 SS	
Adhered Attached Pattern	Adhesion mode	Adhesive spacing
For System A result	Fully adhered	No spacing
- Attachment type:	BURmastic	
- Attachment supplier:	Tremco	

Composite Board 3 in 1:		Fransyl
- Allowable product:	Polybase R+ HR	
Adhered Attached Pattern	Adhesion mode	Adhesive spacing
For System A result	Ribbons	152 mm (6 in) o.c.
- Attachment type:	Adphalt	
- Attachment supplier:	Fransyl	

Vapour Barrier:		Lexcor
- Allowable products:	Permate Stick	
- Attachment mode:	Self-adhering membrane	

Thermal Barrier:		Georgia Pacific
- Allowable products:	Dens Deck Prime	
Adhered Attached Pattern	Adhesion mode	Adhesive spacing
For System A result	Ribbons	152 mm (6 in) o.c.
- Attachment type:	Adphalt	
- Attachment supplier:	Fransyl	

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 gauge 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.