

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

Document Number:	PUB-DRU278985 REV
Publication Date:	2014-09-02
Revised:	2015-04-20
Revaluation Date:	2018-09-02

Supplier:



Mod-bit membrane with cold adhesive System, Adhered Apply Roof System (AARS)

Roofing System Summary :

- Cap sheet membrane: Modified bituminous membrane
- Base Sheet Membrane: Modified bituminous membrane
- Cover board: Asphaltic pannel
- Insulation: Polyisocyanurate
- Vapour barrier: Modified bituminous 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	-3.8 kPa(-80 psf)	-2.5 kPa(-53 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:	IKO
- Allowable product:	Torchflex TPQ-250-Cap
- Attachment mode:	Heat welded

Base Sheet Membrane:	IKO
- Allowable product:	Torchflex TP-180-FF-Base
- Attachment mode:	Heat welded

Cover board:		IKO
- Allowable product:	Protectoboard	
- Allowable thickness:	6 mm (¼ in)	
Adhered Attached Pattern	Adhesion mode	Adhesive spacing
For System A result	Ribbons	152 mm (6 in) c.c.
- Attachment type:	Fas-N-Free	
- Attachment supplier:	Tremco	

Upper Insulation:		Atlas
- Allowable product:	AC Foam II	
- Allowable thickness:	Between 25 mm (1 in) to 203 mm (8 in)	
Adhered Attached Pattern	Adhesion mode	Adhesive spacing
For System A result	Ribbons	152 mm (6 in) c.c.
- Attachment type:	Fas-N-Free	
- Attachment supplier:	Tremco	

Lower Insulation:		Fransyl
- Allowable product:	Izolon HD Type II	
- Allowable thickness:	Between 25 mm (1 in) to 203 mm (8 in)	
Adhered Attached Pattern	Adhesion mode	Adhesive spacing
For System A result	Ribbons	152 mm (6 in) c.c.
- Attachment type:	Fas-N-Free	
- Attachment supplier:	Tremco	

Vapor barrier:	IKO
- Allowable product:	Torchflex TP-180-FF-Base
- Attachment mode:	Heat welded



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Thermal Barrier:	Georgia Pacific	
- Allowable product:	Dens Deck Prime	
- Allowable thickness:	13 mm (½ in)	
Adhered Attached Pattern	Adhesion mode	Adhesive spacing
For System A result	Ribbons	152 mm (6 in) c.c.
- Attachment type:	Fas-N-Free	
- Attachment supplier:	Tremco	

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.