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

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Publication Date:	2014-11-17
Revised:	2015-04-28
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Supplier:

Mod-Bit Millennium adhered System, Adhered Attached Roof 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
- Decking: Steel Deck

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

Description	Test observation reading	With SF of 1.5
System A	-6.3 kPa(-131 psf)	**-4.2 kPa(-87 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:	**IKO**		
	Torchflex TP-250 Cap	Prevent TP-250	Armourcool Granular TP-HD
	Torchflex TPQ-250 Cap	Prevent Premium TP-250	Armourcool Granular Prevent TP-HD
	Torchflex TP-HD	Prevent TP-HD	Armourcool Granular Prevent PremiumTP-HD
	Torchflex TP-250 5 mm	Prevent Premium TP-HD	Armourcool Granular TP
	Torchflex TP-180 Cap	Modiflex MP-180-Cap	Modiflex-PP-HD-Cap
	Modiflex MP-250-Cap		
Adhered attached Pattern	Row spacing	Adhered spacing	
	Fully adhered	**No spacing**	
- Attachment type:	Cold Gold Adhesive or heat welded (upon membrane type)		
- Attachment supplier:	**IKO**		

Base sheet membrane:

- Allowable products:	TorchflexTF-95-SS Base	Modiflex MP-180 SS	Modiflex MP-HD SS
	Torchflex TF-95 FS	Modiflex MP-180 FS	Modiflex MP-HD FS
	Modiflex MF-95 FS	Torchflex TP-180 FF	Torchflex TP-HD FF
	Modiflex MF-95 SS	Modiflex Cold Gold Base	
Adhered attached Pattern	Row spacing	Adhered spacing	
	Fully adhered	**No spacing**	
- Attachment type:	Cold Gold Adhesive or heat welded (upon membrane type)		
- Attachment supplier:	**IKO**		

Cover board:

- Allowable products:	**IKO**		
	Protectoboard		
- Allowable thickness:	Between 3 mm (1/8 in) and 12.7 mm (½ in)		
- **Adhered attached Pattern**	Row spacing	Adhered spacing	
For System A result	**Ribbons**	**305 mm (12 in) o.c.**	
- Attachment type:	Millennium adhesive		
- Attachment supplier:	**IKO**		

Insulation:

- Allowable products:	**IKO**		
	IKOTherm	IKOTherm Tapered	IKOTherm 25 psi Tapered
	IKOTherm III	IKOTherm III 25 psi	IKOTherm 25 psi
- Allowable thickness:	Between 25 mm (1 in) and 203 mm (8 in)		
Adhered attached Pattern	Row spacing	Adhered spacing	
For System A result	**Ribbons**	**305 mm (12 in) o.c.**	
- Attachment type:	Millennium adhesive		
- Attachment supplier:	**IKO**		

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Vapour Barrier:

- Allowable products:	**IKO**	
	ArmourGard	
Adhered attached Pattern For System A result	Row spacing	Adhered spacing
	Ribbons	**152 mm (6 in) o.c.**
- Attachment type:	Armourguard Vapor Barrier Adhesive	
- Attachment supplier:	**IKO**	

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.