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

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Supplier:

TREMCO
ROOFING & BUILDING MAINTENANCE

Built up membrane with hot adhesive System, Adhesive Apply Roof System (AARS)

Roofing System Summary :

- Cap sheet membrane: Roof felts with gravel on surface
- Base Sheet Membrane: Composite membrane
- Cover board: Wood fiber board
- Insulation: Polyisocyanurate
- 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	-7.18 kPa(-150 psf)	**-4.9 kPa(-100 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:	THERmastic 80	
- Attachment supplier:	**Tremco**	

Cap Sheet Membrane:	**Tremco**	
- Allowable products:	THERMglass Type VI	
Adhered Attached Pattern	Adhesion mode	Adhesive spacing
For System A result	Fully adhered	No spacing
- Attachment type:	THERmastic 80	
- Attachment supplier:	**Tremco**	

Base sheet membrane:	**Tremco**	
- Allowable product:	BURmastic Composite Ply	
Adhered Attached Pattern	Adhesion mode	Adhesive spacing
For System A result	Fully adhered	No spacing
- Attachment type:	THERmastic 80	
- Attachment supplier:	**Tremco**	

Cover board (2 rows):	**Matériaux Spécialisés Louiseville**	
- Allowable product:	Isol-Top	
- Allowable thickness:	12,7 mm (½ in)	
Adhered Attached Pattern	Adhesion mode	Adhesive spacing
For System A result	**Fully adhered**	**No spacing**
- Attachment type:	Asphalt Type II	
- Attachment supplier:	**Bitumar**	

Insulation :	**IKO**	
- Allowable products:	IKOtherm III	
- 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:	Asphalt Type II	
- Attachment supplier:	**Bitumar**	

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Vapor barrier:	**IKO**	
- Allowable products:	2 ply Felt 15 lbs	
Adhered Attached Pattern	Adhesion mode	Adhesive spacing
For System A result	**Fully adhered**	**No spacing**
- Attachment type: - Attachment supplier:	Asphalt Type II **Bitumar**	

Thermal Barrier:	**CGC**	
- Allowable product:	Securock	
- Allowable thickness:	Between 6 mm (¼ in) and 16 mm (5/8 in)	
Adhered Attached Pattern	Adhesion mode	Adhesive spacing
For System A result	**Ribbons**	**152 mm (6 in) c.c.**
- Attachment type: - Attachment supplier:	Fas-N-Free **Tremco**	

Primer:	**Tremco**	
- Allowable product:	TREMprime WB	
Adhered Attached Pattern	Adhesion mode	Adhesive spacing
For System A result	**Apply with paint roll, fully adhered**	**152 mm (6 in) c.c.**

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.