


## Dynamic Wind Uplift Resistance CSA A123.21-2014 – Summary Document

Document No.: 19-06-B0127-PARS009-A RV1  
Document Date: November 11, 2019

Reference Documentation:

CSA A123.21-2014 Report No: 17-06-M0013  
Supplementary Report No.: 19-06-B0042-M

<b>Manufacturer:</b>	IKO Industries Ltd.		<b>IKO System Identification:</b>
	40 Hansen Road South		
	Brampton, Ontario, Canada		<b>PARS009</b>
	L6W 3H4		

### SECTION 1.0: Roof System Summary:

<b>"IKO BUR – MA THERMAL BARRIER HOT MOPPED SYSTEM" – Partially Attached Roofing System</b>	
Roof Membrane:	IKO No. 15 Perforated Felt , 4-Ply Organic BUR
Cover Board:	MSL Louiseville Fiberboard
Insulation:	IKO IKOTerm
Insulation:	IKO IKOTerm
Vapour Retarder:	2 plys IKO No.15 Perforated Felt Vapour Retarder
Thermal Barrier:	12.7 mm (1/2") DensDeck Prime®
Deck:	Steel Deck, 22 ga, RD938, 230 MPa (33.4 ksi)

### SECTION 2.0: System Dynamic Wind Uplift Resistance (DUR) Testing Details:

<b>Test Date</b>	<b>Dynamic Wind Uplift Resistance (DUR) of tested specimen kPa (psf)</b>	<b>Dynamic Wind Uplift Resistance(DUR)* Rating (with 1.5X safety factor) kPa (psf)</b>
January 31, 2017	5.4 (112)	3.6 (75)

**Dynamic Wind Uplift Resistance Rating (DUR): 3.6 kPa (75 psf)**

**SECTION 3.0: Tested Product and Substitutable Products:**

Roof Membrane		
Tested Product	IKO No. 15 Perforated Felt, 4-Ply Organic BUR with Glaze Coat, 203 mm (8.0") Overlap	
Product Size	Roll Width: 0.914 m (36"), roll Length 43.9 m (144')	
Attachment Method	Hot Mopped with CSA A123.4 Type 2 Hot Asphalt Adhesive	
Substitutable Product(s)		
Manufacturer	Product Identification	
IKO Industries Ltd.	Type IV Glass	Type 6 glass

Cover Board	
Tested Product	MSL Louiseville Fiberboard
Product Size	12.7 x 1220 x 1220 mm (1/2" x 4' x 4')
Attachment Method	Hot Mopped with CSA A123.4 Type 2 Hot Asphalt
Fastening Rate	Full coverage
Substitutable Product(s)	
Manufacturer	Product Identification
Generic	Any approved wood fiberboard meeting the requirements of CAN/ULC S-706 and ASTM C208

Insulation (Top Layer)			
Tested Product	IKO IKOTerm		
Product Size	51 x 1220 x 1220 mm (2" x 4' x 4')		
Attachment Method	Hot Mopped with CSA A123.4 Type 2 Hot Asphalt		
Fastening Rate	Full coverage		
Substitutable Product(s)			
Manufacturer	Product Identification		
IKO Industries Ltd.	IKOTerm III	IKOTerm 25 psi	IKOTerm III 25 psi
	IKOTerm Tapered	IKOTerm III Tapered	IKOTerm 25 psi Tapered

Insulation (Bottom Layer)			
Tested Product	IKO IKOTerm		
Product Size	51 x 1220 x 1220 mm (2" x 4' x 4')		
Attachment Method	Hot Mopped with CSA A123.4 Type 2 Hot Asphalt		
Fastening Rate	Full coverage		
Substitutable Product(s)			
Manufacturer	Product Identification		
IKO Industries Ltd.	IKOTerm III	IKOTerm 25 psi	IKOTerm III 25 psi
	IKOTerm Tapered	IKOTerm III Tapered	IKOTerm 25 psi Tapered


Vapour Retarder	
Tested Product	2 plys IKO No.15 Perforated Organic Felt Vapour Retarder
Attachment Method	Hot Mopped with CSA A123.4 Type 2 Hot Asphalt
Fastening Rate	Full coverage
Substitutable Product(s)	
Manufacturer	Product Identification
IKO Industries Ltd.	Type IV Glass
	Type 6 Glass
Any approved Mod-Bit membrane or built up felt in asphalt serving as a vapour retarder	

Thermal Barrier	
Tested Product	DensDeck® Prime
Product Size	12.7 x 1220 x 2440 mm (1/2" x 4' x 8')
Attachment Method	Mechanically attached
Fastening Rate	1 per 2.67 ft² (0.025 m²)
Substitutable Product(s)	
Manufacturer	Product Identification
Georgia-Pacific®	DensDeck®
USG®/CGC	Securock® Glass-Mat
Generic	Any approved Gypsum Board meeting the requirements of ASTM C1177 or ASTM C1278

Thermal Barrier Securement	
Tested Product	Trufast® #14 HD Roofing Fastener with 76 mm (3") round (MP-3000) Metal Insulation Plate
Fastening Rate	1 per 2.67 ft² (0.025 m²) - Twelve (12) per 12.7 x 1220 x 2440 mm (1/2" x 4' x 8') board
Substitutional Product(s)	
Manufacturer	Product Identification
SFS	#14 Dekfast Fastener with 3" (76 mm) round (PLT-R-3) Metal Insulation Plate
OMG®	Heavy Duty #14 Roofing Fastener with 3" (76 mm) Galvalume Plate (SPGA3C)

*Note: This is not a comprehensive report but a summary of the performance results produced for the roof assembly documented herein tested in accordance to CSA A123.21-2014. Please refer to the reference documents stated on page 1, or consult the manufacturer, for detailed information pertaining to the test specimen configuration and construction.*

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**Accreditation:** Element is an ISO 17025 accredited test lab under International Accreditation Service "TL-407". In addition, CSA A123.21 can be found under our scope of accreditation listing.

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