


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

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Reference Documentation:

CSA A123.21-2014 Report No: 18-06-B0042-1
Supplementary Report No.: 19-06-B0042-M

Manufacturer:	IKO Industries Ltd.		IKO System Identification:
	40 Hansen Road South		
	Brampton, Ontario, Canada		AARS010
	L6W 3H4		

SECTION 1.0: Roof System Summary:

“IKO BUR - ASPHALTIC CB MILLENNIUM ADHERED WITH MVP AND TB” – Adhesive Adhered Roofing System	
Roof Membrane	IKO Modiflex MF-95-SS-Base with min. 2 plys Type IV Glass Ply Sheet
Cover Board:	IKO Protectoboard
Insulation:	IKO IKOTerm
Insulation:	IKO IKOTerm
Vapour Retarder:	IKO MVP Vapour Retarder
Thermal Barrier:	GP 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:

Test Date	Dynamic Wind Uplift Resistance (DUR) of tested specimen kPa (psf)	Dynamic Wind Uplift Resistance (DUR)* Rating (with 1.5X safety factor) kPa (psf)
February 26, 2018	5.0 (105)	3.4 (70)

Dynamic Wind Uplift Resistance Rating (DUR): 3.4 kPa (70 psf)

SECTION 3.0: Tested Product and Substitutable Products:

Roof Membrane		
Tested Product	IKO Modiflex MF-95-SS-Base with 2 plys Type IV Glass Ply Sheet	
Product Size	Roll Width: 1.0 m (39.4"), roll Length 15 m (49') & 50 m (164')	
Attachment Method	Hot Mopped with CSA A123.4 Type 2 Hot Asphalt Adhesive	
Substitutable Product(s)		
Manufacturer	Product Identification	
IKO Industries Ltd.	No. 15 Perforated Felt	Type 6 glass

Cover Board	
Tested Product	IKO Protectoboard
Product Size	3 x 1220 x 1524 mm (1/8" x 4' x 5')
Attachment Method	Ribbon adhered with IKO Millennium adhesive
Fastening Rate	305 mm (12") o.c.
Substitutable Product(s)	
Manufacturer	Product Identification
IKO Industries Ltd.	Protectobase 180

Insulation (Top Layer)			
Tested Product	IKO IKOTerm		
Product Size	51 x 1220 x 1220 mm (2" x 4' x 4')		
Attachment Method	Ribbon adhered with IKO Millennium adhesive		
Fastening Rate	305 mm (12") o.c.		
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	Ribbon adhered with IKO Millennium adhesive		
Fastening Rate	305 mm (12") o.c.		
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	IKO MVP Vapour Retarder
Product Size	Roll Width: 1 m (39.4"), roll Length 32 m (105')
Attachment Method	Self-adhered to substrate primed with IKO S.A.M. adhesive
Fastening Rate	n/a
Substitutable Product(s)	
Manufacturer	Product Identification
IKO Industries Ltd.	MVP Sand
	Armourbond Flash Sand ArmourGard Ice and Water Protector Commercial

Thermal Barrier	
Tested Product	GP DensDeck Prime®
Product Size	12.7 x 1220 x 2440 mm (1/2" x 4' x 8')
Attachment Method	Ribbon adhered with IKO Millennium adhesive
Fastening Rate	305 mm (12") o.c.
Substitutable Product(s)	
Manufacturer	Product Identification
n/a	n/a

Assembly Adhesive Securement	
Tested Product	IKO Millennium adhesive – ribbon adhered
Fastening Rate	305 mm (12") o.c.
Substitutional Product(s)	
Manufacturer	Product Identification
n/a	n/a

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.

Reported by:



Allan Lawrence, Ext. 11212
Supervisor, Building Systems
Industrials Division

Authorized by:



Jordan Church, B. Tech., Ext. 11546
Ops. / Tech. Manager, Bldg. Science & Fire Testing
Industrials Division

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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