


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

Document No.: 20-06-B0096-AARS020-A
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Reference Documentation:

CSA A123.21-2014 Report No: 20-06-B0096-2
Supplementary Report No.: 19-06-B0042-M RV2

Manufacturer:	IKO Industries Ltd.		IKO System Identification:
	40 Hansen Road South		
	Brampton, Ontario, Canada		AARS020
	L6W 3H4		

SECTION 1.0: Roof System Summary:

"IKO MOD-BIT ARMOURSTICK - PROTECTOBOARD" – Adhesive Adhered Roofing System	
Roof Membrane – Cap Sheet:	IKO ArmourStick HD-Cap
Roof Membrane – Base Sheet	IKO ArmourStick HD-Base
Cover Board:	IKO Protectoboard
Insulation:	IKO IKOTerm
Insulation:	IKO IKOTerm
Vapour Retarder:	IKO MVP Sand 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)
August 4, 2020	5.4 (112.5)	3.6 (75)

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

SECTION 3.0: Tested Product and Substitutable Products:

Roof Membrane (Cap Sheet)	
Tested Product	IKO ArmourStick HD-Cap
Product Size	Roll Width: 1 m (39.6"), roll Length 8 m (26.2'), 4.5 mm (0.18" Thick) with 90 mm (3.5") Overlap
Attachment Method	Self-adhered to base sheet
Substitutable Product(s)	
Manufacturer	Product Identification
IKO Industries Ltd.	ArmourStick PrevENT

Roof Membrane (Base Sheet)	
Tested Product	IKO ArmourStick HD-Base
Product Size	Roll Width: 1 m (39.6"), roll Length 10 m (33'), 2.5 mm (0.0984" Thick) with 90 mm (3.5") Overlap
Attachment Method	Self-adhered to substrate primed with IKO S.A.M. adhesive
Substitutable Product(s)	
Manufacturer	Product Identification
n/a	n/a

Cover Board	
Tested Product	IKO Protectoboard
Product Size	4.8 x 1220 x 1524 mm (3/16" 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
n/a	n/a

Insulation (Top Layer)			
Tested Product	IKO IKOTerm		
Product Size	38 x 1220 x 1220 mm (1.5" 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	38 x 1220 x 1220 mm (1.5" 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 Sand Vapour Retarder
Product Size	Roll Width: 0.9 m (36"), roll Length 24.4 m (80')
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.	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:

A handwritten signature in black ink, appearing to read "Allan Lawrence", written over a horizontal line.

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

Authorized by:

A handwritten signature in black ink, appearing to read "Jordan Church", written over a horizontal line.

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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