


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

Document No.: 20-06-B0096-AARS021-A RV1
Document Date: May 4, 2021

Reference Documentation:

CSA A123.21-2014 Report No: 20-06-B0096-3
Supplementary Report No.: 19-06-B0042-M RV2

Manufacturer:	IKO Industries Ltd.		IKO System Identification:
	40 Hansen Road South		
	Brampton, Ontario, Canada		AARS021
	L6W 3H4		

SECTION 1.0: Roof System Summary:

"IKO MOD-BIT ARMOURSTICK - IKOTHERM" – Adhesive Adhered Roofing System	
Roof Membrane – Cap Sheet:	IKO ArmourStick HD-Cap
Roof Membrane – Base Sheet	IKO ArmourStick HD-Base
Insulation:	IKO IKOTerm III
Insulation:	IKO IKOTerm III
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 5, 2020	7.2 (150)	4.9 (100)

Dynamic Wind Uplift Resistance Rating (DUR): 4.9k kPa (100 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 HD-Cap

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
Substitutable Product(s)	
Manufacturer	Product Identification
n/a	n/a

Cover Board	
Tested Product	Optional layer
Product Size	12.7 x 1220 x 1220 mm (0.5" 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.	IKOTherm CoverShield

Insulation (Top Layer)	
Tested Product	IKO IKOTherm III
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.	IKOTherm III Tapered
	IKOTherm III 25 psi

Insulation (Bottom Layer)		
Tested Product	IKO IKOTerm III	
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 Tapered	IKOTerm III 25 psi

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	

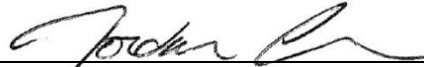
Note: This is not a comprehensive report but a summary of the performance results produced for the roof assembly documented herein tested in accordance to CSA A123.21-2014. Please refer to the reference documents stated on page 1, or consult the manufacturer, for detailed information pertaining to the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

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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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