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

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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.	R	IKO System Identification:
	40 Hansen Road South		iko system identinication.
	Brampton, Ontario, Canada		AARS020
	L6W 3H4		AAR5020

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 IKOTherm	
Insulation:	IKO IKOTherm	
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 Pa (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 IKOTherm	IKO IKOTherm		
Product Size	38 x 1220 x 1220 mm (1.5	38 x 1220 x 1220 mm (1.5" x 4' x 4')		
Attachment Method	Ribbon adhered with IKO	Ribbon adhered with IKO Millennium adhesive		
Fastening Rate	305 mm (12") o.c.	305 mm (12") o.c.		
	Substitutable Product(s)			
Manufacturer		Product Identification		
IKO Industries Ltd.	IKOTherm III	IKOTherm 25 psi	IKOTherm III 25 psi	
	IKOTherm Tapered	IKOTherm III Tapered	IKOTherm 25 psi Tapered	



Insulation (Bottom Layer)			
Tested Product	IKO IKOTherm		
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	IKOTherm 25 psi	IKOTherm III 25 psi
INO Industries Ltd.	IKOTherm Tapered	IKOTherm III Tapered	IKOTherm 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 <u>summary</u> 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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