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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: 19-06-B0022-2 Supplementary Report No.: 19-06-B0042-M

Manufacturer:	IKO Industries Ltd.	®	IVO System Identification
	40 Hansen Road South		IKO System Identification:
	Brampton, Ontario, Canada		AARS014
	L6W 3H4		AAR3014

### **SECTION 1.0: Roof System Summary:**

"IKO MOD-BIT - SELF ADHERED BASE SHEET & WITH MVP SAND TO DECK" - Adhesive Adhered Roofing System		
Roof Membrane – Cap Sheet:	IKO Torchflex TP-180 Cap	
Roof Membrane – Base Sheet	IKO Armourvent Base	
Insulation:	IKO IKOTherm III	
Insulation:	IKO IKOTherm III	
Vapour Retarder:	IKO MVP Sand Vapour Retarder	
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, 2019	4.5 (94)	3.0 (62.5)

Dynamic Wind Uplift Resistance Rating (DUR): 3.0 kPa (62.5 psf)

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

Roof Membrane (Cap Sheet)			
Tested Product	IKO Torchflex TP-180-Cap		
Product Size	Roll Width: 1 m (39.6"), roll Length 8 m (26')		
Attachment Method	Heat Welded		
Substitutable Product(s)			
Manufacturer	Product Identification		
	Torchflex TP-HD-Cap	Torchflex TP-250-Cap	Torchflex TP-250-Cap (5 mm)
	PrevENt TP-250-Cap	PrevENt TP-HD-Cap	PrevENt Premium TP-250-Cap
IKO Industries Ltd.	ArmourCool Granular TP-HD	PrevENt ArmourCool Granular TP  PrevENt ArmourCool	D 51/4 0 11/D 0
	Carrara ArmourCool HD		Prevent ArmourCool HD Cap
IVO Industrias I to	Modiflex MP-180-cap	Modiflex MP-250-cap	Modiflex MP-HD-cap
IKO Industries Ltd.	PrevENt MP-250-cap	PrevENt MP-HD-cap	

Roof Membrane (Base Sheet)		
Tested Product	IKO Armourvent Base	
Product Size	Roll Width: 1 m (39.4"), roll Length 12 m (39.4')	
Attachment Method	Self-adhered	
Substitutable Product(s)		
Manufacturer	Manufacturer Product Identification	
n/a	n/a	

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 25 psi	IKOTherm III Tapered	

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

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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.	IKO AmourGard Ice and Water Protector Commercial		

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.

Reported by:

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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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