


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

Document No.: 19-06-B0127-PARS013-A RV4
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Reference Documentation:

CSA A123.21-2014 Report No: 18-06-B0138
Supplementary Report No.: 19-06-B0042-M RV2
20-06-P0086

Manufacturer:	IKO Industries Ltd.		IKO System Identification:
	40 Hansen Road South		
	Brampton, Ontario, Canada		
	L6W 3H4		PARS013

SECTION 1.0: Roof System Summary:

“IKO MOD-BIT – MA ISO (UNBRIDGED) SELF-ADHERED MEMBRANE SYSTEM” – Partially Attached 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 Armourgard 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)
July 17, 2018	4.5 (94)	3.0 (62)

Dynamic Wind Uplift Resistance Rating (DUR): 3.0 kPa (62 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
Fastening Rate	n/a
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
Fastening Rate	n/a
Substitutable Product(s)	
Manufacturer	Product Identification
n/a	n/a

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
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 2440 mm (1.5" x 4' x 8')		
Attachment Method	Mechanically attached		
Fastening Rate	1 per 2.00 ft ² (0.019 m ²)		
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

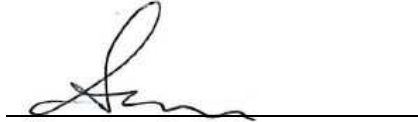
Vapour Retarder			
Tested Product	IKO Armourgard Vapour Retarder		
Product Size	Roll Width: 0.9 m (36"), Roll Length 20 m (65'), 1.4 mm (0.053"), 50.8 mm (2") Overlap		
Attachment Method	Loose laid or adhered to substrate primed with IKO S.A.M. adhesive		
Fastening Rate	IKO Armourgard Vapour Retarder		
Substitutable Product(s)			
Manufacturer	Product Identification		
IKO Industries Ltd.	MVP Vapour Retarder	MVP Sand	
	Armourbond Flash Sand	Armourgard Ice and Water Protector Commercial	
Generic	Any approved generic Kraft Paper or polyethylene vapour retarder		

Thermal Barrier			
Tested Product	GP DensDeck Prime [®]		
Product Size	12.7 x 1220 x 2440 mm (1/2" x 4' x 8')		
Attachment Method	Loose laid, pre-secured or adhered		
Fastening Rate	n/a		
Substitutable Product(s)			
Manufacturer	Product Identification		
Georgia-Pacific [®]	DensDeck [®]	DensDeck Prime [®]	
USG [®] /CGC	Securock [®] Glass-Mat	Securock [®] Gypsum-Fiber	
Generic	Any approved Gypsum Board meeting the requirements of ASTM C1177 or ASTM C1278		

Insulation (Bottom Layer) Securement	
Tested Product	Trufast® #14 HD Roofing Fastener with 76 mm (3") round (MP-3000) Metal Insulation Plate
Fastening Rate	1 per 2.00 ft ² (0.19 m ²) - Sixteen (16) per 12.7 x 1220 x 2440 mm (1.5" x 4' x 8') board
Substitutional Product(s)	
Manufacturer	Product Identification
SFS	#14 Dekfast Fastener with 3" (76 mm) round (PLT-R-3) Metal Insulation Plate
OMG®	Heavy Duty #14 Roofing Fastener with 3" (76 mm) Galvalume Plate (SPGA3C)

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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