


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

Document No.: 19-06-B0127-AARS014-A
Document Date: October 11, 2019

Reference Documentation:

CSA A123.21-2014 Report No: 19-06-B0022-2
Supplementary Report No.: 19-06-B0042-M

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

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 IKOTerm III
Insulation:	IKO IKOTerm 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 Pa (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		
IKO Industries Ltd.	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
	ArmourCool Granular TP-HD	PrevEnt ArmourCool Granular TP	PrevEnt ArmourCool HD Cap
	Carrara ArmourCool HD		
IKO Industries Ltd.	Modiflex MP-180-cap	Modiflex MP-250-cap	Modiflex MP-HD-cap
	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	Product Identification
n/a	n/a

Insulation (Top 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 25 psi IKOTerm III Tapered

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 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.	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 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:



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

Authorized by:



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.

This document and service are covered under Element Materials Technology Canada Inc.'s Standard Terms and Conditions of Contract which may be found on our company's website www.element.com, or by calling 1-866-263-9268.