



ENGINEER

EVALUATE

TEST

CONSULT

ROOF SYSTEM ASSESSMENT REPORT DYNAMIC UPLIFT RESISTANCE PER CSA A123.21			
CLIENT:	IKO INDUSTRIES, LTD.	TEST DATE:	2020-11-18
CLIENT REFERENCE NO:	MARS012	PUBLICATION DATE:	2021-06-25
DOCUMENT NO.	IKO-MARS-2	REVISION NO.	0
TEST PANEL NO.	IKO-D2	REEVALUATION DATE:	2023-11-18
SYSTEM TYPE:	D-1		

MECHANICALLY ATTACHED ROOFING SYSTEM (MARS) SUMMARY

PERFORMANCE⇒	PASSING PRESSURE	WIND UPLIFT RESISTANCE (with SF of 1.5)
	60 psf (2.87 kPa)	40 psf (1.91 kPa)

COMPONENT	ALLOWABLE PRODUCTS	BY
MEMBRANE⇒	IKO Innovi TPO, minimum nominal 45-mil	IKO Industries, Ltd.
ATTACHMENT:	Max. 6-inch (152-mm) o.c. within min. 6-inch (152-mm) wide laps spaced max. 114-inch (2.9-m) o.c. Laps sealed with 1.5-inch (38-mm) heat-weld.	
	InnoviFast Heavy Duty (HD) Fastener with InnoviFast Barbed Seam Plate or	IKO Industries, Ltd.
	Dekfast DF-#15-PH3 with Dekfast PLT-R-2-3/8-6B	SFS intec
INSULATION, TOP LAYER⇒	Min. 1.5-inch thick	
	IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25, psi, IKOTherm Tapered, IKOTherm III Tapered, IKOTherm 25 psi Tapered	IKO Industries, Ltd.
ATTACHMENT:	4 ft ² (0.37 m ²) per fastener (8 parts per 4x8 ft board)	
	InnoviFast All Purpose (AP) Fastener with InnoviFast Round Insulation Plate or	IKO Industries, Ltd.
	Dekfast DF-#14-PH3 with Dekfast PLT-R-3	SFS intec
INSULATION, BASE LAYER⇒	One or more layer(s), min. 1.5-inch thick	
	IKOTherm, IKOTherm III, IKOTherm 25 psi, IKOTherm III 25, psi, IKOTherm Tapered, IKOTherm III Tapered, IKOTherm 25 psi Tapered	IKO Industries, Ltd.
ATTACHMENT:	Loose-laid	
VAPOUR BARRIER⇒	Min. 6-mil polyethylene or	generic
	IKO MVP or IKO MVP Sand	IKO Industries, Ltd.
ATTACHMENT:	polyethylene: loose-laid with taped joints	
	IKO MVP or IKO MVP Sand: self-adhering	
PRIMER⇒	(When using IKO MVP or IKO MVP Sand) IKO S.A.M. Adhesive	IKO Industries, Ltd.

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COMPONENT	ALLOWABLE PRODUCTS	BY
THERMAL BARRIER⇒	(Optional) any IKO approved type or thickness acceptable to the Authority Having Jurisdiction	various
ATTACHMENT:	loose-laid, adhered or mechanically attached	
DECK⇒	Minimum 22 ga. type B steel meeting ASTM A653, A792, A1008 or CSSBI 10M standards and having a yield strength of 275 MPa (40 ksi), or alternate steel deck providing the fastener withdrawal resistance noted below.	Various
INSULATION FASTENER POINT-LOAD⇒	240 lbf (1,068 N)	
MEMBRANE FASTENER POINT-LOAD⇒	285 lbf (1,268 N)	

NEMO ETC CREDENTIALS

TYPE	ENTITY	REFERENCE
ISO/IEC 17025 Accreditation	International Accreditation Service (IAS)	TL-689
TAS 301 Certification	Miami-Dade	21-0409.01
Third Party Test Data Program	UL, LLC	DA2862
Test Lab Listing	Roofing Contractors Association of British Columbia	www.rcabc.org

REPORT HISTORY

DATE	EVENT	NOTES	AUTHORIZED BY:
2021-06-21	DRAFT 1 issued	RSAR for IKO-D2; for client review	RN
2021-06-25	FINAL issued	After client review	RN

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END OF REPORT