



ENGINEER

TEST

CONSULT

ROOF SYSTEM ASSESSMENT REPORT DYNAMIC UPLIFT RESISTANCE PER CSA A123.21			
CUSTOMER:	IKO Industries, LTD.	TEST DATE:	2021-08-26
CUSTOMER REFERENCE NO:	MARS013	PUBLICATION DATE:	2024-09-26
DOCUMENT NO.	IKO-MARS-3	REVISION NO.	1
TEST PANEL NO.	IKO-D3	REEVALUATION DATE:	2027-09-26
SYSTEM TYPE:	D-1		

MECHANICALLY ATTACHED ROOFING SYSTEM (MARS) SUMMARY

PERFORMANCE ⇒	PASSING PRESSURE	WIND UPLIFT RESISTANCE (RESISTANCE FACTOR 0.65)
	81 psf (3.88 kPa)	54 psf (2.59 kPa)

COMPONENT	ALLOWABLE PRODUCTS	
	PRODUCT	ATTACHMENT
MEMBRANE ⇒	Innovi™ TPO, min. nominal 45-mil	InnoviFast Heavy Duty (HD) Fastener with InnoviFast Barbed Seam Plate or SFS Group Dekfast DF-#15-PH3 with Dekfast PLT-R-2-3/8-6B, max. 12-inch (305-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.
INSULATION ⇒	One or more layer(s), min. 1.5-inch thick IKOTerm, IKOTerm III, IKOTerm 25 psi, IKOTerm III 25 psi, IKOTerm Tapered, IKOTerm III Tapered or IKOTerm 25 psi Tapered	Topmost layer mechanically attached: InnoviFast All Purpose (AP) Fastener with InnoviFast Round Insulation Plate or SFS Group Dekfast DF-#14-PH3 with Dekfast PLT-R-3 8 parts per 4x8 ft board [4 ft ² (0.37 m ²) per fastener]
VAPOUR BARRIER ⇒	IKO MVP or IKO MVP Sand	Self-adhering
PRIMER ⇒	(Optional) IKO S.A.M. Adhesive	Applied at listee-specified rate
THERMAL BARRIER (OPTIONAL) ⇒	Any type or thickness acceptable to the Authority Having Jurisdiction	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.	
INSULATION FASTENER POINT-LOAD ⇒	324 lbf (1,441 N)	
MEMBRANE FASTENER POINT-LOAD ⇒	770 lbf (3,425 N)	

ROOF SYSTEM ASSESSMENT REPORT, DYNAMIC UPLIFT RESISTANCE PER CSA A123.21

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RSAR SCOPE

Roof System Assessment Reports (RSAR) constitute a summary of allowable products and interfaces used in low-slope roof assemblies based testing in accordance with CSA A123.21 at our ISO/IEC 17025 accredited laboratory.

While RSAR's are reviewed and renewed each 3-years based primarily on report holder declaration, these are not Certification listings, and are not intended to state or imply ongoing quality control / surveillance activities by NEMO at the report holder's facilities.

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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	RCABC Labs

REPORT HISTORY

DATE	EVENT	NOTES	AUTHORIZED BY:
2021-09-07	DRAFT1	for client review	RN
2021-09-08	FINAL	after client review	RN
2024-09-26	R1	Reexamination / renewal	RN

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