



ENGINEER

EVALUATE

TEST

CONSULT

ROOF SYSTEM ASSESSMENT REPORT DYNAMIC UPLIFT RESISTANCE PER CSA A123.21			
CLIENT:	IKO INDUSTRIES, LTD	TEST DATE:	2022-08-31
CLIENT REFERENCE NO.	MARS019	PUBLICATION DATE:	2022-10-27
DOCUMENT NO.	IKO-MARS-6	REVISION NO.	0
TEST PANEL NO.	IKO-D6	REEVALUATION DATE:	2025-10-27
SYSTEM TYPE:	D-1		

MECHANICALLY ATTACHED ROOFING SYSTEM (MARS) SUMMARY		
PERFORMANCE ⇒	PASSING PRESSURE	WIND UPLIFT RESISTANCE (RESISTANCE FACTOR 0.65)
	87 psf (4.2 kPa)	56.6 psf (2.7 kPa)

COMPONENT	ALLOWABLE PRODUCTS	
	PRODUCT	ATTACHMENT
MEMBRANE ⇒	“InnoviTPO” (min. 60-mil)	induction welded (see below)
COVERBOARD ⇒	(Optional) Min. 0.5-inch “IKOTherm CoverShield”, Georgia-Pacific Gypsum “DensDeck Prime” or USG “SECUROCK Gypsum-Fiber Roof Board”	Mechanically fastened in a 2 x 2 ft grid pattern (1 per 4 ft ²) <ul style="list-style-type: none"> ✓ “InnoviFast Heavy Duty (HD) Fastener” with “InnoviWeld Induction Plate”; membrane induction welded using SFS isoweld 3000 or OMG RhinoBond Induction Welder. ✓ SFS “Dekfast DF-#15-PH3” with SFS “isoweld F1-P-6.8-TPO Plate”; membrane induction welded using SFS isoweld 3000 or OMG RhinoBond Induction Welder. ✓ Altenloh, Brinck & Co. “Trufast #15 EHD” with “Trufast TPO IW Plate”; membrane induction welded using Trufast Induction Welder or OMG RhinoBond Induction Welder.
INSULATION, BASE LAYERS ⇒	Two or more layer(s), min. 1.5-inch “IKOTherm”, “IKOTherm III”, “IKOTherm 25 psi”, “IKOTherm III 25 psi”, “IKOTherm Tapered”, “IKOTherm III Tapered” or “IKOTherm 25 psi Tapered”	Loose-laid with staggered joints
VAPOUR BARRIER ⇒	6-mil polyethylene or	Loose-laid with taped joints
	IKO MVP or IKO MVP Sand	Self-adhering
PRIMER ⇒	(Optional) IKO S.A.M. Adhesive	Liquid-applied
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 yielding the fastener withdrawal resistance noted below.	
FASTENER POINT-LOAD ⇒	348 lbf (1548 N)	

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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 Roofing Practices Manual

REPORT HISTORY

DATE	EVENT	NOTES	AUTHORIZED BY:
2022-10-21	DRAFT issued	For client review	RN
2022-10-27	FINAL issued	After client review	RN

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END OF REPORT