



ENGINEER

EVALUATE

TEST

CONSULT

ROOF SYSTEM ASSESSMENT REPORT DYNAMIC UPLIFT RESISTANCE PER CSA A123.21			
CLIENT:	SEAMAN CORPORATION	TEST DATE:	2021-11-10
DOCUMENT NO.	SMN-MARS-5	PUBLICATION DATE:	2022-08-30
TEST PANEL NO.	SMN-D13	REVISION NO.	1
SYSTEM TYPE:	C-2	REEVALUATION DATE:	2025-08-30

MECHANICALLY ATTACHED ROOFING SYSTEM (MARS) SUMMARY		
PERFORMANCE ⇒	PASSING PRESSURE	WIND UPLIFT RESISTANCE (WITH SF OF 1.5; RESISTANCE FACTOR 0.67)
	70.0 psf (3.35 kPa)	46.7 psf (2.24 kPa)

COMPONENT	ALLOWABLE PRODUCTS	
	PRODUCT	ATTACHMENT
MEMBRANE ⇒	“FiberTite” (nominal 36-mil), “FiberTite-SM” (nominal 45- or 60-mil), “FiberTite-XT” (nominal 50- or 60-mil) or “FiberTite XTreme” (nominal 60-mil)	induction welded using proprietary welding equipment in accordance with plate-manufacturer’s published instructions
INSULATION, TOP LAYER ⇒	Min. 0.5-inch Lexsuco “Lexboard 90”, Georgia-Pacific Gypsum “DensDeck Prime”, National Gypsum “DEXcell FA Glass Mat Roof Board” or USG “SECUROCK Gypsum-Fiber Roof Board” or min. 1.5-inch “FTR-Value”, “FTR-Value A” or “FTR-Value H”, Atlas Roofing “ACFoam II”, Lexsuco “ISOLEX A”, IKO “IKOTherm” or “IKOTherm III”, Johns Manville “ENRGY 3” or Hunter Panels “H-Shield”	2x2 ft grid pattern (1 per 4 ft²) Any of the following fasteners paired with any of the following stress plates: <ul style="list-style-type: none"> <li>✓ <b>FASTENERS:</b> Altenloh, Brinck &amp; Co. “Trufast #15 EHD”, Lexsuco “Lexgrip #15 Drill Point Extra Heavy Duty Membrane Fastener”, “OMG XHD Fastener”, Seaman “FiberTite Magnum Fastener” or SFS “Dekfast DF-#15-PH3”.</li> <li>✓ <b>INDUCTION-WELD PLATES:</b> Altenloh, Brinck &amp; Co. “Trufast PVC IW Plate” (limited to FiberTite-SM, FiberTite-XT or FiberTite XTreme), Lexsuco “Lexgrip Induction Plate (PVC)” (limited to FiberTite-SM, FiberTite-XT or FiberTite XTreme), OMG “RhinoBond Insulation Plate-PVC” (limited to FiberTite-SM, FiberTite-XT or FiberTite XTreme), OMG “RhinoBond TreadSafe Plate-PVC with TreadSafe Insert” (limited to FiberTite-SM, FiberTite-XT or FiberTite XTreme), Seaman “FTR-IW Plate”, SFS “isoweld F1-P-6.8-PVC Plate” or SFS “isoweld FI-P-16.0-PVC Plate with FI-R-20 insert tube”.</li> </ul>
INSULATION, BASE LAYER ⇒	One or more layer(s), min. 1.5-inch “FTR-Value”, “FTR-Value A” or “FTR-Value H”, Atlas Roofing “ACFoam II”, Lexsuco “ISOLEX A”, IKO “IKOTherm” or “IKOTherm III”, Johns Manville “ENRGY 3” or Hunter Panels “H-Shield” or min. 1.0 pcf IZOLON by FRANSYL or other expanded polystyrene meeting ASTM C578 and acceptable to the Authority Having Jurisdiction.	Loose-laid

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

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COMPONENT	ALLOWABLE PRODUCTS	
	PRODUCT	ATTACHMENT
VAPOUR BARRIER ⇨	6-mil polyethylene or	Loose-laid with taped joints
	“VaporTite”, Lexsuco “LexShield Air/Vapour Barrier Membrane” or “Permate Stick”	Self-adhering
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 ⇨	280 lbf (1245 N)	

NEMO ETC CREDENTIALS		
TYPE	ENTITY	REFERENCE
ISO/IEC 17025 Accreditation	International Accreditation Service (IAS)	<a href="#">TL-689</a>
TAS 301 Certification	Miami-Dade	<a href="#">21-0409.01</a>
Third Party Test Data Program	UL, LLC	<a href="#">DA2862</a>
Test Lab Listing	Roofing Contractors Association of British Columbia	<a href="http://www.rcabc.org">www.rcabc.org</a>

REPORT HISTORY			
DATE	EVENT	NOTES	AUTHORIZED BY:
2020-11-18	FINAL issued	None	RN
2022-08-30	REV1 issued	Add results from 4i-SMN-22-SSCRT-01 and 4i-SMN-22-SSCRT-02; Add IKOTherm	RN

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