



ENGINEER

EVALUATE

TEST

CONSULT

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

CLIENT:	SEAMAN CORPORATION	TEST DATE:	2019-11-05
DOCUMENT NO.	SMN-MARS-4.1	PUBLICATION DATE:	2023-02-24
TEST PANEL NO.	SMN-D7	REVISION NO.	3
SYSTEM TYPE:	C-2	REEVALUATION DATE:	2026-02-24

**MECHANICALLY ATTACHED ROOFING SYSTEM (MARS) SUMMARY**

PERFORMANCE⇒	PASSING PRESSURE	WIND UPLIFT RESISTANCE (WITH SF OF 1.5; RESISTANCE FACTOR 0.67)
	179 psf (8.57 kPa)	119 psf (5.70 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)*  * Certified by ISO/IEC 17065 Certification Entity <a href="#">NEMO cert.</a> to codified material standards.	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"	24 parts per 4x8 ft board; 1.5 ft (along board width) x 1 ft (along board length) grid pattern. Fasteners shall be of sufficient length for min. 1-inch embedment into the wood deck.  Any of the following fasteners paired with any of the following stress plates: ✓ <b>FASTENERS:</b> Altenloh, Brinck & 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". ✓ <b>INDUCTION-WELD PLATES:</b> Altenloh, Brinck & Co. "Trufast PVC IW Plate" (limited to FiberTite-SM, FiberTite-XT or Fiber-Tite XTreme), Lexsuco "Lexgrip Induction Plate (PVC)" (limited to FiberTite-SM, FiberTite-XT or Fiber-Tite 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".  

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

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COMPONENT	ALLOWABLE PRODUCTS	
	PRODUCT	ATTACHMENT
<b>INSULATION, BASE LAYER</b> ⇒	One or more layer(s), min. 1.5-inch “FTR-Value”, “FTR-Value A” or “FTR-Value H”, Atlas Roofing “ACFoam II”, Lexsuo “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
<b>VAPOUR BARRIER</b> ⇒	6-mil polyethylene or	Loose-laid with taped joints
	“VaporTite”, Lexsuo “LexShield Air/Vapour Barrier Membrane” or “Permate Stick”	Self-adhering
<b>THERMAL BARRIER (OPTIONAL)</b> ⇒	Any type or thickness acceptable to the Authority Having Jurisdiction	Loose-laid, adhered or mechanically-attached
<b>DECK</b> ⇒	Min. 1.5-inch thick, dimensional lumber decking of spruce-pine-fir species acceptable to the Authority Having Jurisdiction.	
<b>FASTENER POINT-LOAD</b> ⇒	238 lbf (1059 N) For glue-laminated dimensional lumber decking, care shall be taken to ensure membrane fasteners engage the centerline of a solid wood member. If concern exists as to fastener engagement at a glue-joint, NEMO recommends field withdrawal testing to validate minimum fastener point-load performance.	

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="#">RCABC</a>

REPORT HISTORY			
DATE	EVENT	NOTES	AUTHORIZED BY:
2021-02-26	FINAL issued	None	RN
2021-03-01	REV1 issued	Add gypsum-based coverboard options based on criticality data on file	RN
2021-10-21	REV2 issued	Add Lexgrip #15 Drill Point Extra Heavy Duty Membrane Fasteners with Lexgrip Induction Plate (PVC), limited to FiberTite-SM or -XT; add Lexboard 90; add Lexshield AVB and Permate Stick	RN
2023-02-24	REV3 issued	Add results from 4i-SMN-22-SSCRT-01 and 4i-SMN-22-SSCRT-02; Add IKOTherm	RN

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**END OF REPORT**