



ENGINEER

EVALUATE

TEST

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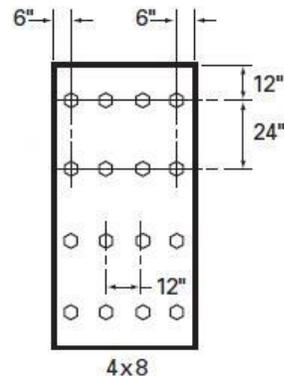
**ROOF SYSTEM ASSESSMENT REPORT
DYNAMIC UPLIFT RESISTANCE PER CSA A123.21**

CLIENT:	SEAMAN CORPORATION	TEST DATE:	2019-09-20
DOCUMENT NO.	SMN-MARS-3.1	PUBLICATION DATE:	2023-02-24
TEST PANEL NO.	SMN-D6	REVISION NO.	3
SYSTEM TYPE:	C-2	REEVALUATION DATE:	2026-02-25

MECHANICALLY ATTACHED ROOFING SYSTEM (MARS) SUMMARY

PERFORMANCE ⇒	PASSING PRESSURE	WIND UPLIFT RESISTANCE (WITH SF OF 1.5; RESISTANCE FACTOR 0.67)
	113 psf (5.41 kPa)	75 psf (3.59 kPa)

COMPONENT	ALLOWABLE PRODUCTS	
	PRODUCT	ATTACHMENT
MEMBRANE ⇒	<p>“FiberTite” (nominal 36-mil)*, “FiberTite-SM” (nominal 45- or 60-mil)*, “FiberTite-XT” (nominal 50- or 60-mil)* or “FiberTite XTreme” (nominal 60-mil)*</p> <p><i>* Certified by ISO/IEC 17065 Certification Entity NEMO cert. to codified material standards.</i></p>	<p>induction welded using proprietary welding equipment in accordance with plate-manufacturer’s published instructions</p>
INSULATION, TOP LAYER ⇒	<p>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”</p>	<p>16 parts per 4x8 ft board; 1 ft (along board width) x 2 ft (along board length) grid pattern. Fasteners shall be of sufficient length for min. 1-inch embedment into the wood deck.</p> <p>Any of the following fasteners paired with any of the following stress plates:</p> <ul style="list-style-type: none"> ✓ FASTENERS: 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”. ✓ INDUCTION-WELD PLATES: 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
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
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 ⇒	Min. 1.5-inch thick, dimensional lumber decking of spruce-pine-fir species acceptable to the Authority Having Jurisdiction	
FASTENER POINT-LOAD ⇒	226 lbf (1005 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)	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

REPORT HISTORY

DATE	EVENT	NOTES	AUTHORIZED BY:
2021-02-26	FINAL issued	None	RN
2021-03-01	DRAFT REV1 issued	For client review	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