



ENGINEER

EVALUATE

TEST

CONSULT

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:	2021-10-21
TEST PANEL NO.	SMN-D6	REVISION NO.	2
SYSTEM TYPE:	C-2	REEVALUATION DATE:	2023-01-10

MECHANICALLY ATTACHED ROOFING SYSTEM (MARS) SUMMARY

PERFORMANCE⇒	PASSING PRESSURE	WIND UPLIFT RESISTANCE (with SF of 1.5)
	113 psf (5.41 kPa)	75 psf (3.59 kPa)

COMPONENT	ALLOWABLE PRODUCTS	BY
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)	Seaman Corporation
ATTACHMENT:	induction welded using proprietary welding equipment in accordance with plate-manufacturer's published instructions	
INSULATION, TOP LAYER⇒	Min. 1.5-inch FTR-VALUE A, FTR-VALUE or FTR-VALUE H Min. 1.5-inch ACFoam II Min. 1.5-inch ISOLEX A Min. 1.5-inch ENRGY 3 Min. 1.5-inch H-Shield Min. 0.5-inch Lexboard 90 Min. 0.5-inch DensDeck Prime Min. 0.5-inch DEXcell FA Glass Mat Roof Board or Min. 0.5-inch SECUORCK Gypsum-Fiber Roof Board	Seaman Corporation Atlas Roofing Lexsuco 2010 Corp. Johns Manville Hunter Panels Lexcuso 2010 Corp. Georgia-Pacific Gypsum National Gypsum United States Gypsum
ATTACHMENT:	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	

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COMPONENT	ALLOWABLE PRODUCTS	BY
FASTENERS/PLATES⇒	FiberTite Magnum Fasteners with FTR-IW isoweld Plates	Seaman Corporation
	Dekfast DF-#15-PH3 with isoweld F1-P6.8-PVC Plate	SFS intec
	Trufast #15 EHD with Trufast PVC IW Plates <i>(Note: only for use with FiberTite-SM or Fiber-Tite XTreme membranes)</i>	Altenloh, Brinck & Co. U.S. Inc.
	Lexgrip #15 Drill Point Extra Heavy Duty Membrane Fasteners with Lexgrip Induction Plate (PVC) <i>(Note: only for use with FiberTite-SM or Fiber-Tite XTreme membranes)</i>	Lexsuco 2021 Corp.
INSULATION, BASE LAYER⇒	One or more layer(s), min. 1.5-inch thick polyisocyanurate top insulation or IKOTherm or min. 1.0 pcf IZOLON by FRANSYL or other expanded polystyrene meeting ASTM C578, acceptable to the Authority Having Jurisdiction	various
ATTACHMENT:	loose-laid	
VAPOUR BARRIER⇒	6-mil polyethylene or	various
	VaporTite	Seaman Corporation
	Lexshield™ Air/Vapour Barrier Membrane or	Lexsuco Corp.
	Permate™ Stick	Lexsuco Corp
ATTACHMENT:	loose-laid or self-adhering	
THERMAL BARRIER⇒	(Optional) any type or thickness acceptable to the Authority Having Jurisdiction	various
ATTACHMENT:	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	Various
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	www.rcabc.org

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

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END OF REPORT

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