



ENGINEER

EVALUATE

TEST

CONSULT

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

CLIENT:	SEAMAN CORPORATION	TEST DATE:	2019-09-17
DOCUMENT NO.	SMN-MARS-1	PUBLICATION DATE:	2022-08-29
TEST PANEL NO.	SMN-D4	REVISION NO.	3
SYSTEM TYPE:	D	REEVALUATION DATE:	2025-08-29

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

PERFORMANCE ⇒	PASSING PRESSURE	WIND UPLIFT RESISTANCE (WITH SF OF 1.5; RESISTANCE FACTOR 0.67)
	124 psf (5.94 kPa)	83 psf (3.97 kPa)

COMPONENT	ALLOWABLE PRODUCTS	
	PRODUCT	ATTACHMENT
<b>MEMBRANE ⇒</b>	<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>“FiberTite Magnum Fasteners” with “FiberTite Magnum-Plus Plates”, open-attachment configuration with parts spaced max. 6-inch o.c. within the min. 5-inch wide side laps, spaced max. 45-inch o.c. Laps sealed with min. 1.5-inch heat weld.</p>
<b>INSULATION, TOP LAYER ⇒</b>	<p>Min. 0.5-inch National Gypsum “DEXcell FA Glass Mat Roof Board” or min. 1.5-inch “FTR-Value”, “FTR-Value A” or “FTR-Value H”, Atlas Roofing “ACFoam II”, Lexsuco “ISOLEX A”, Johns Manville “ENRGY 3” or Hunter Panels “H-Shield” or ...</p>	<p>1 per 8 ft<sup>2</sup> (4 parts per 4x8 ft board) Any of the following fasteners with any of the following stress plates:</p> <ul style="list-style-type: none"> <li>✓ <b>FASTENERS:</b> “FiberTite #14 Fastener”, “Trufast #14 HD” or “Trufast #15 EHD”, “Lexgrip #14 Heavy Duty Fastener” or “Lexgrip #15 Extra Heavy Duty Fastener”, “OMG Roofgrip #14” or “OMG XHD” or “Dekfast DF-#14-PH3” or “Dekfast DF-#15-PH3”</li> <li>✓ <b>STRESS PLATES:</b> “FiberTite 3-inch Steel Plate”, “Trufast 3” Metal Insulation Plate”, “Lexgrip 3” Galvalume Steel Insulation Plate”, “OMG 3 in. Galvalume Steel Plate (Flat)”, “OMG 3 in. Ribbed Galvalume Plate”, “OMG AccuTrac Flat Bottom Plate” or “Dekfast PLT-R-3”</li> </ul>
	<p>Min. 0.5-inch National Gypsum “DEXcell FA Glass Mat Roof Board” or min. 1.5-inch “FTR-Value”, “FTR-Value A” or “FTR-Value H”, Atlas Roofing “ACFoam II”, Lexsuco “ISOLEX A”, Johns Manville “ENRGY 3” or Hunter Panels “H-Shield” or ...</p>	<p>1 per 8 ft<sup>2</sup> (4 parts per 4x8 ft board) ✓ “Dekfast DF-#14-PH3” with “SFS TPA50 Polyamide Sleeve”</p>
	<p>Min. 0.5-inch Lexsuco “Lexboard 90” or ...</p>	<p>1 per 8 ft<sup>2</sup> (4 parts per 4x8 ft board) ✓ “Trufast #14 HD” or “Trufast #15 EHD” with “Trufast 3” Metal Insulation Plate”, ✓ “Lexgrip #14 Heavy Duty Fastener” with “Lexgrip 3” Galvalume Steel Insulation Plate” or</p>

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COMPONENT	ALLOWABLE PRODUCTS	
	PRODUCT	ATTACHMENT
		<ul style="list-style-type: none"> <li>✓ “OMG Roofgrip #14” or “OMG XHD” with OMG 3 in. Ribbed Galvalume Plate”</li> </ul>
INSULATION, TOP LAYER (CONTINUED) ⇨	Min. 1.5-inch IKO Industries “IKOTherm” or “IKOTherm III”	<ul style="list-style-type: none"> <li>1 per 8 ft<sup>2</sup> (4 parts per 4x8 ft board)</li> <li>✓ “FiberTite #14 Fastener” or “FiberTite Magnum Fastener” with “FiberTite 3-inch Steel Plate”,</li> <li>✓ “Trufast #14 HD” or “Trufast #15 EHD” with “Trufast 3” Metal Insulation Plate”,</li> <li>✓ “Lexgrip #14 Heavy Duty Fastener” or “Lexgrip #15 Extra Heavy Duty Fastener” with “Lexgrip 3” Galvalume Steel Insulation Plate”,</li> <li>✓ “OMG Roofgrip #14” or “OMG XHD” with “OMG 3 in. Galvalume Steel Plate” or</li> <li>✓ “Dekfast DF-#14-PH3” or “Dekfast DF-#15-PH3” with “Dekfast PLT-R-3”</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”, 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 ⇨	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 ⇨	232 lbf (1032 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="#">RCABC Roofing Practices Manual</a>

**REPORT HISTORY**

DATE	EVENT	NOTES	AUTHORIZED BY:
2020-01-10	FINAL issued	After client review	RN
2020-02-04	DRAFT REV1 issued	For client review; add Lexcuso components	RN
2020-02-04	REV1 issued	After client review	RN
2021-10-20	REV2 issued	Add DEXcell FA Glass Mat Roof Board; add Lexboard 90; add Permate Stick	RN
2022-07-25	DRAFT REV 3 issued	For client review; add results from 4i-SMN-22-SSCRT-01 and -02, add IKOTherm	RN
2022-08-29	REV3 issued	After client review	RN

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**END OF REPORT**