



ENGINEER

EVALUATE

TEST

CONSULT

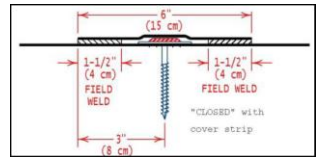
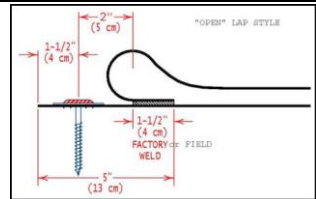
**ROOF SYSTEM ASSESSMENT REPORT  
DYNAMIC UPLIFT RESISTANCE PER CSA A123.21**

CLIENT:	SEAMAN CORPORATION	TEST DATE:	2019-11-06
DOCUMENT NO.	SMN-MARS-2	PUBLICATION DATE:	2022-08-30
TEST PANEL NO.	SMN-D10	REVISION NO.	3
SYSTEM TYPE:	D	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)
	179 psf (8.57 kPa)	119 psf (5.70 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>“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. 69-inch o.c. Laps sealed with min. 1.5-inch heat weld.</p> <p>and closed-attachment configuration with fasteners installed through the field of the sheet, spaced max. 6-inch o.c. in row centered between open-lap rows. Rows covered with 6-inch wide strip of FiberTite membrane, with 1.5-inch heat welds on all sides of cover strip.</p>
INSULATION, TOP LAYER ⇒	<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>



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

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DOCUMENT NO.	SMN-MARS-2	REVISION NO.	3
TEST PANEL NO.	SMN-D10	REEVALUATION DATE:	2025-08-30



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COMPONENT	ALLOWABLE PRODUCTS	
	PRODUCT	ATTACHMENT
INSULATION, TOP LAYER (CONTINUED) ⇒	Min. 0.5-inch Lexsuco “Lexboard 90” or ...	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 ✓ “OMG Roofgrip #14” or “OMG XHD” with OMG 3 in. Ribbed Galvalume Plate”
	Min. 1.5-inch IKO Industries “IKOTherm” or “IKOTherm III”	1 per 8 ft <sup>2</sup> (4 parts per 4x8 ft board) ✓ “FiberTite #14 Fastener” or “FiberTite Magnum Fastener” with “FiberTite 3-inch Steel Plate”, ✓ “Trufast #14 HD” or “Trufast #15 EHD” with “Trufast 3” Metal Insulation Plate”, ✓ “Lexgrip #14 Heavy Duty Fastener” or “Lexgrip #15 Extra Heavy Duty Fastener” with “Lexgrip 3” Galvalume Steel Insulation Plate”, ✓ “OMG Roofgrip #14” or “OMG XHD” with “OMG 3 in. Galvalume Steel Plate” or ✓ “Dekfast DF-#14-PH3” or “Dekfast DF-#15-PH3” with “Dekfast PLT-R-3”
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”, 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 ⇒	“VaporTite”	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 ⇒	257 lbf (1143 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="#">www.rcabc.org</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
2021-10-21	REV2 issued	Add DEXcell FA Glass Mat Roof Board; add Lexboard 90	RN
2022-08-30	REV 3 issued	Add results from 4i-SMN-22-SSCRT-01 and -02, add IKOTherm	RN

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**END OF REPORT**