



NEMO|etc.

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ENGINEER

TEST

CONSULT

ROOF SYSTEM ASSESSMENT REPORT DYNAMIC UPLIFT RESISTANCE PER CSA A123.21			
CUSTOMER:	Seaman Corporation	TEST DATES:	2020-02-12
DOCUMENT NO.	SMN-AARS-6	PUBLICATION DATE:	2026-03-11
TEST PANEL NO.	SMN-D12	REVISION NO.	5
NEMO TYPE:	A-2	REEVALUATION DATE:	2029-03-11

ADHESIVE APPLIED ROOFING SYSTEM (AARS) SUMMARY

ROOFING SYSTEM SUMMARY:	
NEMO Type:	A-2; Bonded Vapour Barrier, Bonded Insulation; Bonded Roof Cover
Membrane:	KEE or KEE/PVC co-polymer single ply, adhesive-applied
Coverboard:	(Optional) Gypsum-based board, adhesive-applied
Insulation, Top:	Polyisocyanurate foam board, adhesive-applied
Insulation, Base:	(Optional) Polyisocyanurate or polystyrene foam board, adhesive-applied
Vapour Barrier:	Proprietary, woven polyethylene film surfaced, SBS modified bitumen, self-adhering or sand-surfaced, SBS modified bitumen, torch-applied
Primer:	Primer specific for use with selected vapour barrier.
Deck:	Structural concrete

DYNAMIC UPLIFT RESISTANCE PER CSA A123.21:					
Sustained Test Value		Design Value CSA A123.21:20 (Test Value x 0.65)		Design Value CSA A123.21:14 (Test Value ÷ 1.5)	
kPa	psf	kPa	psf	kPa	psf
-3.6	-75	-2.3	-49	-2.4	-50

PRODUCTS / APPLICATION:				
Membrane:	Description:	Membrane composed of polyester reinforcement coated with KEE or KEE/PVC co-polymer compound		
	Application:	Adhesive-applied		
	Eligible Products:	Membrane	Adhesive	Rate
		FiberTite, FiberTite-SM, FiberTite-XT or FiberTite Xtreme	FTR-190e	contact application, 0.5 gal./sq. per surface
			Alpha-Tite Bonding Adhesive	contact application, 0.83 to 1.0 gal./sq. per surface
			FTR-290	wet-lay, 1 gal./square
		FTR-390*	wet-lay, 1 gal./square	
FiberTite FB, FiberTite-SM FB, FiberTite-XT FB or FiberTite XTreme FB	*FTR-390 is not for use with DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board		APOC Polyset Commercial Roof Adhesive	wet-lay, spatter application

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PRODUCTS / APPLICATION:				
Coverboard (Optional):	Description:	Gypsum-based board		
	Application:	Adhesive-applied		
	Eligible Products:	By	Product	Thickness Min. 6.4-mm (0.25-inch)
		Georgia-Pacific Gypsum	DensDeck Prime	
National Gypsum		DEXcell FA Glass Mat Roof Board		
USG	SECUROCK Gypsum-Fiber Roof Board			
Coverboard Adhesive (Optional):	Description:	Polyurethane based insulation adhesive		
	Application:	Continuous ribbons, max. 305-mm (12-inch) on-center		
	Eligible Products:	By	Product	
		Seaman Corp.	FTR-601 or FTR-601 PG	
Lexusco		Insultac II Pump Grade Insulation Adhesive		
HB Fuller Company	Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive			
Insulation, Top:	Description:	Polyisocyanurate foam board		
	Application:	Adhesive-applied		
	Eligible Products:	By	Product	Dimensions Max. 1.2 x 1.2-m (4 x 4 ft) x min. 38-mm (1.5-inch) thick
		Seaman Corp.	FTR-Value or FTR-Value H	
		Atlas Roofing	ACFoam II	
		Hunter Panels	H-Shield	
IKO		IKOTherm		
Lexusco	ISOLEX A			
Insulation, Base (Optional):	Description:	Polyisocyanurate or polystyrene foam board		
	Application:	One or more layer(s), adhesive-applied		
	Eligible Products:	By	Product	Dimensions Max. 1.2 x 1.2-m (4 x 4 ft) x min. 38-mm (1.5-inch) thick
		Seaman Corp.	FTR-Value or FTR-Value H	
		Atlas Roofing	ACFoam II	
		Hunter Panels	H-Shield	
		IKO	IKOTherm	
		Lexusco	ISOLEX A	
Atlas Molded Plastics		ThermalStar TS		
Fransyl	IZOSOL or IZOLON EPS			
Insulation Adhesive:	Description:	Polyurethane based insulation adhesive		
	Application:	Continuous ribbons, max. 305-mm (12-inch) on-center		
	Eligible Products:	By	Product	
		Seaman Corp.	FTR-601 or FTR-601 PG	
		Lexusco	Insultac II Pump Grade Insulation Adhesive	
HB Fuller Company		Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive		

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Page 3 of 4



PRODUCTS / APPLICATION:			
	OPTION NO.:	Option 1	Option 2
Vapour Barrier:	Description:	Proprietary woven polyethylene film surfaced, SBS modified bitumen	Sand-surfaced, SBS modified bitumen
	Application:	Self-adhering	Torch-applied
	Eligible Products:	VaporTite	FiberTite-SBS TG Base, FiberTite-SBS 190 TG Base, IKO "Torchflex TF-95-SF" or "Torchflex-TP-180-SF Base"
Primer:	Description:	Polymer-based primer	Asphaltic primer
	Application:	~250 ft ² /gallon	0.5 gal/square
	Eligible Products:	SOPREMA "ELASTOCOL Stick Zero"	ASTM D41 or Lexcor "Lexprime TG"
Deck:	Extended:	Structural concrete	

NOTES:	
Test Value and Design Value:	The "Test Value" noted herein reflects the ultimate passing test pressure recorded during testing. The "Design Value" herein reflects the "Test Value" multiplied by a resistance factor of 0.65, or divided by a safety factor of 1.5. The "Design Value" should meet or exceed the design pressure requirements of the project, as determined in accordance with the current National Building Code of Canada (NBC) requirements.
Equivalence of Other Products:	This report applies only to the products listed as "Eligible Products" herein.
Optional Components:	Components listed herein as "optional" may be removed from the roof system design with no adverse effect on system dynamic wind uplift performance.
As-Tested Deck:	Testing utilized 22 ga., Type B (6-inch deck module) steel deck meeting ASTM A653, A792, A1008 or CSSBI 10M standard and having a yield strength of 275 MPa (40-ksi). Results extended to structural concrete based on previous testing, coupled with criticality test data. Alternate deck displaying equivalent strength may be specified at the discretion of the Designer of Record to the satisfaction of the Authority Having Jurisdiction.
Fastener Point-Loads:	N/A

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

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Page 4 of 4



RSAR SCOPE

Roof System Assessment Reports (RSAR) constitute a summary of allowable products and interfaces used in low-slope roof assemblies based testing in accordance with CSA A123.21 at our ISO/IEC 17025 accredited laboratory.

While RSAR's are reviewed and renewed each 3-years based primarily on report holder declaration, these are not Certification listings, and are not intended to state or imply ongoing quality control / surveillance activities by NEMO at the report holder's facilities.

NEMO ETC, LLC is not, in any way, the Designer of Record for any project on which these RSAR's, or previous versions thereof, is/was used for permitting or design guidance. RSAR's are not to be construed as representing any attributes not specifically listed, nor to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by NEMO ETC, LLC, express or implied, as to any finding or other matter in these RSAR's, or as to any product covered by the RSAR's.

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 Labs

REPORT HISTORY

DATE	EVENT	NOTES	AUTHORIZED BY:
2020-08-24	FINAL	After client review	RN
2020-12-29	REV1	Add Insultac II Insulation Adhesive and Insultac II Pump Grade Insulation Adhesive Add ISOLEX A; Correct Option #2 membrane designations.	RN
2021-10-21	REV2	Add AlphaTite Bonding Adhesive; add IZOLON EPS	RN
2023-02-24	REV3	Update trade names; add IKOTerm	RN
2024-12-23	REV4	Add coverboard options; Add <u>Torchflex vapor barrier options</u>	RN
2026-03-11	REV4	Re-Validation, reformat	RN

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END OF REPORT