



NEMO|etc.

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ENGINEER

TEST

CONSULT

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

CUSTOMER:	Tremco CPG, Inc.	TEST DATE:	2017-03-10, 2019-02-15 & 2021-03-26
DOCUMENT NO.	TRM-AARS-2.1	PUBLICATION DATE:	2025-09-29
TEST PANEL NO.	TRM-D1+D4+D6	REVISION NO.	1
SYSTEM TYPE:	A-1	REEVALUATION DATE:	2027-03-29

ADHESIVE APPLIED ROOFING SYSTEM (AARS) SUMMARY

ROOFING SYSTEM SUMMARY:

Cap Ply:	SBS modified bitumen membrane, cold-applied
Ply:	(Optional) SBS modified bitumen membrane, cold-applied
Base Ply:	SBS modified bitumen membrane, cold-applied
Coverboard:	Asphaltic-mineral board, gypsum-based board or wood fiberboard, adhesive-applied
Insulation:	Polyisocyanurate foam insulation board, adhesive-applied
Vapor Barrier:	(Optional) SBS modified bitumen membrane, cold-applied
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
-5,0	-105	-3,3	-68	-3,4	-70

PRODUCTS / APPLICATION:

Surfacing: (Optional)	Description:	Surfacing applied for fire classification performance and/or reflectivity.
	Application:	Cold-applied, hot-applied or fluid-applied
	Eligible Products:	Any Tremco hot-applied or cold-applied flood coat and gravel or aggregate stone, or Tremco roof coating approved for use with the cap ply membrane, applied in accordance with Tremco requirements.
Cap Ply:	Description:	Membrane composed of a fiberglass, polyester or fiberglass/polyester composite reinforcement coated with SBS modified bitumen
	Application:	POWERply Endure BIO Adhesive TF at 2.0 gal/sq.
	Eligible Products:	BURmastic Composite Ply HT, BURmastic Composite Ply Premium, BURmastic Composite Ply HT Green, POWERply Endure 300 Smooth, POWERply Endure 320 Smooth, POWERply Standard Smooth, POWERply Endure 100 Smooth, POWERply Heavy Duty Base, POWERply 2PM, POWERply Endure 200 Smooth, POWERply Endure 300 FR, POWERply Endure 320 FR, POWERply Standard, POWERply Standard FR, POWERply Endure 100 FR, POWERply 3GR or POWERply Endure 200 FR

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

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PRODUCTS / APPLICATION:				
Ply: (Optional)	Description:	Membrane composed of a fiberglass, polyester or fiberglass/polyester composite reinforcement coated with SBS modified bitumen		
	Application:	POWERply Endure BIO Adhesive TF at 2.0 gal/sq.		
	Eligible Products:	BURmastic Composite Ply HT, BURmastic Composite Ply Premium, BURmastic Composite Ply HT Green, POWERply Endure 300 Smooth, POWERply Endure 320 Smooth, POWERply Standard Smooth, POWERply Endure 100 Smooth, POWERply Heavy Duty Base, POWERply 2PM or POWERply Endure 200 Smooth		
Base Ply:	Description:	Membrane composed of a fiberglass, polyester or fiberglass/polyester composite reinforcement coated with SBS modified bitumen		
	Application:	POWERply Endure BIO Adhesive TF at 2.0 gal/sq.		
	Eligible Products:	BURmastic Composite Ply HT, BURmastic Composite Ply Premium, BURmastic Composite Ply HT Green, POWERply Endure 300 Smooth, POWERply Endure 320 Smooth, POWERply Standard Smooth, POWERply Endure 100 Smooth, POWERply Heavy Duty Base, POWERply 2PM or POWERply Endure 200 Smooth		
Coverboard:	Description:	Asphaltic-mineral board, gypsum-based board or wood fiberboard		
	Application:	Adhesive-applied		
	Eligible Products:	By	Product	Thickness
		Tremco:	Tremboard AC	Min. 3.2-mm (0.125-inch)
		Building Products of Canada Corp:	BP ESGARD High Density Roof Insulator, coated with asphalt on 6-sides	Min. 12.7-mm (0.5-inch)
		Georgia Pacific Gypsum:	DensDeck Prime	Min. 6.4-mm (0.25-inch)
United States Gypsum:	SECUROCK Gypsum-Fiber Roof Board	Min. 6.4-mm (0.25-inch)		
Coverboard Adhesive:	Description:	Polyurethane based insulation adhesives		
	Application:	Continuous ribbons, 152-mm (6-inch) on-center		
	Eligible Products:	By	Product	Application
		Tremco:	Tremco Low Rise Foam Insulation Adhesive or Tremco Low Rise Foam Insulation Adhesive (BG)	Ribbon-applied
		H.B. Fuller Company:	Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive	Ribbon-applied
Insulation:	Description:	Polyisocyanurate foam insulation board laminated on both sides with fiber reinforced felt or coated glass facer		
	Dimensions:	Max. 1.2 x 1.2-m x min. 25-mm (Max. 4 x 4 ft x min. 1-inch)		
	Application:	One or more layers, adhesive-applied		
	Eligible Products:	By	Product	
		Tremco:	Trisotech, Trisotech G or Trisotech CGF	
Atlas Roofing:		ACFoam II or ACFoam III		
Johns Manville	ENRGY 3			
Insulation Adhesive:	Description:	Polyurethane based insulation adhesives		
	Application:	Continuous ribbons, 152-mm (6-inch) on-center		
	Eligible Products:	By	Product	Application
		Tremco:	Tremco Low Rise Foam Insulation Adhesive or Tremco Low Rise Foam Insulation Adhesive (BG)	Ribbon-applied
		H.B. Fuller Company:	Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive	Ribbon-applied

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PRODUCTS / APPLICATION:		
Vapour Barrier: <i>(Optional)</i>	Description:	Membrane composed of a fiberglass/polyester composite reinforcement coated with SBS modified bitumen
	Application:	POWERply Endure BIO Adhesive TF at 2.0 gal/sq.
	Eligible Products:	BURmastic Composite Ply HT or BURmastic Composite Ply Premium
Deck:	Extended:	Min. 2,500 psi 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). Listing extended to structural concrete based on criticality analysis.
Fastener Point-Load:	N/A

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:
2024-04-23	FINAL	Adjunct RSAR for structural concrete deck	RN
2025-09-29	DRAFT REV1	Optional ply; additional coverboard options, for customer review	RN
2025-09-29	REV1	After customer review	RN

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END OF REPORT