



ENGINEER

TEST

CONSULT

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

CUSTOMER:	TREMCO CPG, INC.	TEST DATE:	2022-02-18
DOCUMENT NO.	TRM-AARS-3.2	PUBLICATION DATE:	2025-03-04
TEST PANEL NO.	TRM-D8	REVISION NO.	2
SYSTEM TYPE:	A-1	REEVALUATION DATE:	2028-03-04

**ADHESIVE APPLIED ROOFING SYSTEM (AARS) SUMMARY**

<b>ROOFING SYSTEM SUMMARY:</b>	
Cap Ply:	SBS modified bitumen membrane cold-applied, hot-applied or torch-applied or oxidized asphalt BUR-ply, hot-applied
Ply:	(Optional) SBS modified bitumen membrane cold-applied, hot-applied or torch-applied or oxidized asphalt BUR-ply, hot-applied
Base Ply:	SBS modified bitumen, cold-applied or hot-applied
Coverboard:	Wood fiberboard, adhesive-applied
Insulation:	Polyisocyanurate foam insulation board, adhesive-applied
Vapor Barrier:	Self-adhering
Thermal Barrier:	(Optional) Gypsum-based board, adhesive-applied
Deck:	Steel or structural concrete

**DYNAMIC UPLIFT RESISTANCE PER CSA A123.21:**

Test Value:	3,2 kPa (-66 psf)
Design Value: (resistance factor 0.65)	2,1 kPa (-44 psf)

**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		
	Option Number:	<b>Option 1</b>	<b>Option 2</b>	<b>Option 3</b>
	Application:	BURmastic Adhesive or POWERply Standard Cold Adhesive at 1.5-2.0 gal/square or BURmastic Adhesive MC at 2.0 gal/square	hot asphalt, THERMastic 80 or THERMastic 100 at 25-30 lbs/square	Torch-applied
	Eligible Products:	BURmastic Composite Ply HT, BURmastic Composite Ply Premium, BURmastic Composite Ply HT Green, POWERply Endure 300 Smooth, POWERply Endure 320 Smooth, POWERply Endure 300 FR, POWERply Endure 320 FR, POWERply Standard, POWERply Standard FR, POWERply Endure 100 FR, POWERply 2PM, POWERply Endure 200 Smooth or POWERply Endure 200 FR	THERMglass Type IV or THERMglass Premium VI or those from Option 1	POWERply Standard FR HW, POWERply Standard FR GT24 HW or POWERply SBS Deluxe HW

**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		
	Option Number:	<b>Option 1</b>	<b>Option 2</b>	<b>Option 3</b>
	Application:	BURmastic Adhesive MC at 2.0 gal/square	hot asphalt, THERMastic 80 or THERMastic 100 at 25-30 lbs/square	Torch-applied
	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	THERMglass Type IV or THERMglass Premium VI or those from Option 1	POWERply Standard Smooth HW
Base Ply:	Description:	Membrane composed of a fiberglass, polyester or fiberglass/polyester composite reinforcement coated with SBS modified bitumen		
	Application:	BURmastic Adhesive MC at 2.0 gal/square or hot asphalt, THERMastic 80 or THERMastic 100 at 25-30 lbs/square		
	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:	Wood fiberboard		
	Application:	Adhesive-applied		
	Eligible Products:	<b>By</b>	<b>Product</b>	<b>Thickness</b>
Coverboard Adhesive:	Description:	Polyurethane based insulation adhesives, hot asphalt or polymer-modified hot asphalt		
	Application:	<u>Ribbon-Applied</u> : Continuous ribbons, 152-mm (6-inch) on-center <u>Full-Bond</u> : 25-30 lbs/100 ft <sup>2</sup>		
	Eligible Products:	<b>By</b>	<b>Product</b>	<b>Application</b>
		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
		Tremco:	THERMastic 80 or THERMastic 100	Full-bond
Generic:		ASTM D312, Type III hot asphalt	Full-bond	

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PRODUCTS / APPLICATION:				
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. 457-mm (Max. 4 x 4 ft x min. 1.5-inch)		
	Application:	One or more layers, adhesive-applied		
	Eligible Products:	<b>By</b>	<b>Product</b>	
		Tremco:	Trisotech G or Trisotech CGF	
Atlas Roofing:		ACFoam II or ACFoam III		
Insulation Adhesive:	Description:	Polyurethane based insulation adhesives, hot asphalt or polymer-modified hot asphalt		
	Application:	Continuous ribbons, 305-mm (12-inch) on-center For steel deck, ensure ribbons are positioned over top flanges of steel deck.		
	Eligible Products:	<b>By</b>	<b>Product</b>	<b>Application</b>
		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
Vapour Barrier:	Description:	Fiberglass reinforced, SBS modified bitumen membrane with trilaminate woven polyethylene top surface for air and vapour control		
	Application:	Self-adhering		
	Eligible Products:	AVC Max Membrane		
Primer: <i>(Optional to steel, required to thermal barrier or concrete)</i>	Description:	Solvent-based or water-based primer to enhance adhesion performance of vapour barrier		
	Application:	~250 ft <sup>2</sup> /gallon		
	Eligible Products:	AVC Membrane Primer or AVC Membrane Primer (WB)		
Thermal Barrier: <i>(Optional)</i>	Description:	Gypsum-based board		
	Application:	Adhesive-applied		
	Eligible Products:	<b>By</b>	<b>Product</b>	<b>Thickness</b>
		Georgia-Pacific Gypsum:	DensDeck Prime	Min. 12.7-mm (0.5-inch)
USG:	SECUROCK Gypsum-Fiber Roof Board	Min. 12.7-mm (0.5-inch)		
Thermal Barrier Adhesive: <i>(If Thermal Barrier is installed)</i>	Description:	Polyurethane based insulation adhesives		
	Application:	Continuous ribbons, 305-mm (12-inch) on-center For steel deck, ensure ribbons are positioned over top flanges of steel deck.		
	Eligible Products:	<b>By</b>	<b>Product</b>	<b>Application</b>
		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
Deck:	As-Tested:	Steel roof deck, Type B profile.		
	Extended:	Min. 2,500 psi structural concrete		

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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 (same as Test Value 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). Alternate deck displaying equivalent strength and fastener-holding capacity (withdrawal resistance) may be specified at the discretion of the Designer of Record to the satisfaction of the Authority Having Jurisdiction.
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.

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**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 Labs</a>

**REPORT HISTORY**

DATE	EVENT	NOTES	AUTHORIZED BY:
2022-06-16	FINAL	None	RN
2023-03-14	DRAFT REV1	Add THERMglass options; remove BURmastic Adhesive SF; for client review	RN
2023-03-20	REV1	After client review	RN
2025-03-04	RE-EXAMINATION	Pre-scheduled re-examination and renewal; reformat to current	RN

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**END OF REPORT**