



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 DATES:	2021-07-09, 2025-07-01 (by others)
DOCUMENT NO.	TRM-PARS-6.1	PUBLICATION DATE:	2025-08-12
TEST PANEL NO.	TRM-D7 + 1 (by others)	REVISION NO.	0
SYSTEM TYPE:	B-1	REEVALUATION DATE:	2028-08-12

PARTIALLY ADHERED ROOFING SYSTEM (PARS) SUMMARY

ROOFING SYSTEM SUMMARY:

Cap Ply:	SBS modified bitumen, cold-adhesive applied
Ply:	(Optional) SBS modified bitumen, cold-adhesive applied
Base Ply:	SBS modified bitumen, cold-adhesive applied
Coverboard:	Gypsum-based board, adhesive-applied
Insulation (mid):	(Optional) Polyisocyanurate foam board, adhesive-applied
Insulation (base):	Polyisocyanurate foam board, mechanically attached
Vapor Barrier:	Any approved type, loose-laid, adhered or mechanically fixed
Thermal Barrier:	(Optional) Any approved type, loose-laid, adhered or mechanically fixed
Deck:	Steel

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
-8,4	-175	-5,4	-114	-5,6	-117

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 fiberglass, fiberglass/polyester composite or polyester reinforcement coated with SBS modified bitumen
	Application:	POWERply Endure BIO Adhesive TF at full-coverage, 2.0 gal/square
	Eligible Products:	BURmastic Composite Ply HT, BURmastic Composite Ply Premium, BURmastic Composite Ply HT Green, POWERply Standard Smooth, POWERply Heavy Duty Base, POWERply Endure 300 FR, POWERply Endure 320 FR, POWERply Standard, POWERply Standard FR, POWERply Standard FR GT24C, POWERply Endure 100 FR, POWERply 3GR or POWERply Endure 200 FR

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PRODUCTS / APPLICATION:				
Ply: <i>(Optional)</i>	Description:	Membrane composed of fiberglass, fiberglass/polyester composite or polyester reinforcement coated with SBS modified bitumen		
	Application:	POWERply Endure BIO Adhesive TF at full-coverage, 2.0 gal/square		
	Eligible Products:	One or more 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 fiberglass, fiberglass/polyester composite or polyester reinforcement coated with SBS modified bitumen		
	Application:	POWERply Endure BIO Adhesive TF at full-coverage, 2.0 gal/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:	Gypsum-based board		
	Application:	Adhesive-applied		
	Eligible Products:	By	Product	Min. 12.7-mm (0.5-inch)
		Georgia-Pacific Gypsum	DensDeck Prime or DensDeck StormX Prime	
United States Gypsum	SECUROCK Gypsum-Fiber Roof Board			
Coverboard Adhesive:	Description:	Polyurethane based insulation adhesive		
	Application Rate:	Continuous ribbons, 152-mm (6-inch) on-center		
	Eligible Products:	By	Product	
		Tremco CPG	Low Rise Foam Insulation Adhesive or Low Rise Foam Insulation Adhesive (BG)	
HB Fuller Company	Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive			
Insulation, mid layer(s): <i>(Optional)</i>	Description:	Polyisocyanurate foam board laminated on both sides with fiber reinforced felt or coated fiberglass facer		
	Application:	One or more layer(s), adhesive-applied		
	Eligible Products:	By	Product	Max. 1.2 x 1.2-m (4 x 4 ft) x min. 25-mm (1-inch) thick
		Tremco CPG	Trisotech, Trisotech G or Trisotech CGF	
Atlas Roofing		ACFoam II or ACFoam III		
Johns Manville	ENRGY 3			
Insulation, mid layer, Adhesive:	Description:	Polyurethane based insulation adhesive		
	Application Rate:	Continuous ribbons, 152-mm (6-inch) on-center		
	Eligible Products:	By	Product	
		Tremco CPG	Low Rise Foam Insulation Adhesive or Low Rise Foam Insulation Adhesive (BG)	
HB Fuller Company	Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive			

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PRODUCTS / APPLICATION:											
Insulation, base layer:	Description:	Polyisocyanurate foam board laminated on both sides with fiber reinforced felt or coated fiberglass facer									
	Dimensions:	Min. 1.2 x 2.4-m (4 x 8 ft) or 1.2 x 1.2-m (4 x 4 ft) x thickness noted below									
	Application:	Optional base layer(s) loose laid, top layer mechanically fixed									
	Eligible Products:	<table border="1"> <thead> <tr> <th>By</th> <th>Products</th> <th>Min. Top Layer Thickness</th> </tr> </thead> <tbody> <tr> <td>Tremco CPG</td> <td>Trisotech, Trisotech G or Trisotech CGF</td> <td rowspan="3">50.8-mm (2-inch)</td> </tr> <tr> <td>Atlas Roofing</td> <td>ACFoam II or ACFoam III</td> </tr> <tr> <td>Johns Manville</td> <td>ENRGY 3</td> </tr> </tbody> </table>	By	Products	Min. Top Layer Thickness	Tremco CPG	Trisotech, Trisotech G or Trisotech CGF	50.8-mm (2-inch)	Atlas Roofing	ACFoam II or ACFoam III	Johns Manville
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Insulation Fasteners:	Description:	Corrosion resistant screw-type roofing fasteners with steel stress plates									
	Fastening Method:	Fasteners installed through stress plates to engage the top flanges of the steel deck									
	Fastener Density:	1 per 1.3 ft ² (24 parts per 4x8 ft board or 12 parts per 4x4 ft board)									
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	By	Product									
Tremco CPG	Tremco #15 EHD with Tremco 3" Metal Insulation Plate										
Altenloh, Brink & Co US	Trufast #15 EHD with Trufast 3" Metal Insulation Plate										
Vapour Barrier:	Description:	Min. 6-mil polyethylene or other vapor barrier									
	Application:	Loose-laid, adhered or mechanically-attached									
	Eligible Products:	Any approved product acceptable to Tremco and the Authority Having Jurisdiction									
Thermal Barrier: (Optional)	Description:	Cement-based, gypsum-based or mineral-wool board									
	Application:	Loose-laid, adhered or mechanically-attached									
	Eligible Products:	Any approved product acceptable to Tremco and the Authority Having Jurisdiction									
Deck:	As-Tested:	Steel roof deck									

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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, 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) and plywood, APA rated sheathing, 40/20, Exposure 1, PS1, 19/32 category, CDX. 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-Loads:	Point-Load		
	Sustained Test Value		Design Value
	N	lbf	N
	1035	233	673
			151

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:
2025-07-14	DRAFT 1	For customer review	RN
2025-08-12	FINAL	After customer review	RN

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END OF REPORT