



NEMO|etc.

353 Christian Street, Unit #13
Oxford, CT 06478
(203) 262-9245

ENGINEER

TEST

CONSULT

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

CUSTOMER:	Polyglass USA, Inc.	TEST DATES:	2017-10-05
DOCUMENT NO.	PLYG-PARS-4	PUBLICATION DATE:	2025-05-09
TEST PANEL NO.	PLYG-D8 & PLYG-D9	REVISION NO.	5
SYSTEM TYPE:	C-1	REEVALUATION DATE:	2028-05-09

PARTIALLY ADHERED ROOFING SYSTEM (PARS) SUMMARY

ROOFING SYSTEM SUMMARY:	
Cap Ply:	APP or SBS modified bitumen, torch-applied
Ply:	(Optional) SBS modified bitumen, torch-applied
Base Ply:	SBS modified bitumen, torch-applied
Coverboard:	Asphaltic-mineral based board, mechanically fixed
Insulation (base):	Polyisocyanurate foam insulation board, loose-laid
Vapor Barrier:	Kraft paper, loose-laid or SBS modified bitumen, self-adhering
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
-2.7	-56	-1.7	-36	-1.8	-37

PRODUCTS / APPLICATION:		
Cap Ply:	Description:	Membrane composed of fiberglass, polyester or fiberglass/polyester composite reinforcement coated with APP or SBS modified bitumen
	Application:	Torch-applied
	Eligible Products:	Polyflex, Polyflex G, Polyflex G FR, Polybond, Polybond G, Polyfresko G, Polyfresko G FR, Elastoshield HT G, Elastoshield HT G FR, Elastoflex V, Elastoflex V G, Elastoflex V G FR, Elastoflex S6, Elastoflex VP, Elastoflex S6 HP, Elastoflex VP HP, Elastoflex S6 G, Elastoflex VP G, Elastoflex S6 G FR, Elastoflex VP G FR, Elastoshield TS G, Elastoshield TS G FR, Polyfresko G SBS or Polyfresko G SBS FR
Ply: (Optional)	Description:	Membrane composed of fiberglass, polyester or fiberglass/polyester composite reinforcement coated with SBS modified bitumen
	Application:	Torch-applied
	Eligible Products:	One or more plies Elastobase V, Elastoflex V, Elastoflex S6, Elastoflex VP, Elastoflex S6 HP, Elastoflex VP HP, Elastoshield VP HT or Elastoshield TS

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

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PRODUCTS / APPLICATION:				
Base Ply:	Description:	Membrane composed of fiberglass, polyester or fiberglass/polyester composite reinforcement coated with SBS modified bitumen		
	Application:	Torch-applied		
	Eligible Products:	Elastobase V, Elastoflex V, Elastoflex S6, Elastoflex VP, Elastoflex S6 HP, Elastoflex VP HP, Elastoshield VP HT or Elastoshield TS		
Coverboard:	Description:	Asphaltic-mineral based board		
	Dimensions:	See below		
	Application:	Mechanically fixed		
	Eligible Products:	Product	Dimensions	Min. Thickness
		Polyboard E	1.2 x 1.5-m (4 x 5 ft)	3.2-mm (0.125-inch)
Polyboard W	0.9 x 1.5-m (3 x 5 ft)	3.2-mm (0.125-inch)		
Coverboard 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:	Polyboard E: 1 per 4.0 ft ² Polyboard W: 1 per 3.0 ft ² (5 parts per board)		
	Eligible Products:	By	Product	
		Polyglass	#14 Polygrip or #15 Polygrip with Polygrip Hex Plate	
		Altenloh, Brink & Co US	Trufast #14 HD or Trufast #15 EHD with Trufast 3" Metal Insulation Plate	
		OMG, Inc.	OMG Heavy Duty Fastener or OMG XHD with OMG AccuTrac Flat Bottom Plate or OMG 3" Galvalume Steel Plate	
OMG Heavy Duty Fastener or OMG XHD with OMG 3 in. Ribbed Galvalume Plate (Flat) <i>(for Polyboard E only)</i>				
SFS Group USA	Dekfast DF-#14-PH3 or DF-#15-PH3 with Dekfast PLT-R-3 or PLT-H-2-7/8			
Insulation:	Description:	Polyisocyanurate foam insulation board laminated on both sides with fiber reinforced felt or coated glass facer		
	Application:	One or more layers, loose-laid		
	Thickness:	Minimum 38-mm (1.5-inch)		
	Eligible Products:	Polytherm, Polytherm G, Polytherm H or Polytherm K		



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PRODUCTS / APPLICATION:			
Vapour Barrier:	Description:	Membrane composed of a fiberglass reinforcement coated with SBS modified bitumen, min. 6-mil polyethylene or asphalt coated kraft paper	
	Application:	Loose-laid or self-adhering	
	Eligible Products:	Polyglass	Elastobase SA or Elastoflex SA V
		Polytarp Products	Super Six™ Vapour Barrier
SPAR Roofing		SPAR Marathon Vapour Barrier	
Thermal Barrier: <i>(Optional)</i>	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	

NOTES:	
Test Value and Design Value:	<p>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)</p> <p>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.</p>
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:	<p>The insulation fastener point-loads resisted during this test are:</p> <ul style="list-style-type: none"> • Test Value: 1001 N (225 lbf) • Design Value: 667 N (150 lbf)

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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)	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:
2018-02-26	FINAL	None	RN
2020-05-04	REV1	Update Cap Ply options; Name change: Polyglass HT Base 650 to ElastoShield HT	RN
2021-02-19	REV2	Re-Validation; Name change: ElastoShield HT to Elastoshield VP HT; Add: Elastobase SA	RN
2021-10-21	REV3	Add Polyboard E	RN
2021-10-21	REV4	Add Polyboard W	RN
2025-05-09	REV5	Customer directed edits	RN

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