



**NEMO|etc.**

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ENGINEER

TEST

CONSULT

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

CUSTOMER:	Polyglass USA, Inc.	TEST DATES:	2017-12-14
DOCUMENT NO.	PLYG-PARS-8	PUBLICATION DATE:	2025-05-12
TEST PANEL NO.	PLYG-D13	REVISION NO.	2
SYSTEM TYPE:	C-1	REEVALUATION DATE:	2028-05-12

**PARTIALLY ADHERED ROOFING SYSTEM (PARS) SUMMARY**

**ROOFING SYSTEM SUMMARY:**

Cap Ply:	APP or SBS modified bitumen, torch-applied
Ply:	(Optional) APP or SBS modified bitumen, torch-applied
Base Ply:	SBS modified bitumen, self-adhering
Insulation (top):	Polyisocyanurate foam insulation 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
-3,8	-79	-2,5	-51	-2,5	-53

**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 APP or SBS modified bitumen
	Application:	Torch-applied
	Eligible Products:	One or more plies Polybase V, Polyflex, Polybond, 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**

CUSTOMER:	Polyglass USA, Inc.	PUBLICATION DATE:	2025-05-12
DOCUMENT NO.	PLYG-PARS-8	REVISION NO.	2
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PRODUCTS / APPLICATION:				
Base Ply:	Description:	Membrane composed of fiberglass reinforcement coated with SBS modified bitumen with an SBS modified bitumen self-adhering compound on the back side		
	Application:	Self-adhering		
	Eligible Products:	Elastobase SA, Elastoflex SA V (2.0mm), Elastoflex SA V FR (2.0mm), Elastoflex SA V Plus (2.5mm), Elastoflex SA V Plus FR (2.5mm) or Elastoflex SA Base		
Primer: (Optional)	Description:	Water-based acrylic primer		
	Application:	1 gallon per 300 ft <sup>2</sup>		
	Eligible Products:	WB-3000		
Insulation:	Description:	Polyisocyanurate foam insulation board laminated on both sides with fiber reinforced felt or coated glass 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:	<b>Products</b> Polytherm, Polytherm G, Polytherm H or Polytherm-CG	<b>Min. Top Layer Thickness</b> 38-mm (1.5-inch)	
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 2.0 ft <sup>2</sup> (16 parts per 4x8 ft board or 8 parts per 4x4 ft board)		
	Eligible Products:	<b>By</b>		<b>Product</b>
		Polyglass		#12 Polygrip, #14 Polygrip or #15 Polygrip with Polygrip Hex Plate
		Altenloh, Brink & Co US		Trufast #12 DP, Trufast #14 HD or Trufast #15 EHD with Trufast 3" Metal Insulation Plate
OMG, Inc.		OMG #12 Standard, OMG Heavy Duty Fastener or OMG XHD with OMG 3" Galvalume Steel Plate		
SFS Group USA	Dekfast DF-#12-PH3, DF-#14-PH3 or DF-#15-PH3 with Dekfast PLT-R-3 or PLT-H-2-7/8			
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"> <li>• Test Value: 703 N (158 lbf)</li> <li>• Design Value: 468 N (105 lbf)</li> </ul>

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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)	<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:
2020-05-04	FINAL	None	RN
2021-02-19	REV1	Re-Validation Name change: Elastobase to Elastobase V Name change: ElastoShield HT to Elastoshield VP HT Add: Elastobase SA	RN
2025-05-12	REV2	Customer directed edits	RN

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**END OF REPORT**