



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 DATE:	2017-08-04
DOCUMENT NO.	PLYG-MARS-2	PUBLICATION DATE:	2025-05-09
TEST PANEL NO.	PLYG-D7	REVISION NO.	R3
SYSTEM TYPE:	D	REEVALUATION DATE:	2028-05-09

MECHANICALLY ATTACHED ROOFING SYSTEM (MARS) SUMMARY

ROOFING SYSTEM SUMMARY:	
Cap Ply:	SBS modified bitumen, torch-applied
Base Ply:	SBS modified bitumen, torch-applied
Base Sheet:	SBS modified bitumen, mechanically fixed
Insulation, Top Layer:	1220 x 2438 x 38-mm (48 x 96 x 1.5-inch) polyisocyanurate foam insulation board, loose-laid
Insulation, Base Layer:	(Optional) 1220 x 2438 x 38-mm (48 x 96 x 1.5-inch) polyisocyanurate foam insulation board, loose-laid
Vapor Barrier:	SBS modified bitumen, self-adhered
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
11,9	-248	7,7	-161	7,9	-165

PRODUCTS / APPLICATION:

Cap Ply:	Description:	Membrane composed of a fiberglass, polyester or fiberglass/polyester composite reinforcement coated with SBS modified bitumen
	Application:	Torch-applied
	Eligible Products:	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
Base Ply (Optional):	Description:	Membrane composed of a 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 or Elastoshield VP HT
Base Sheet:	Description:	Membrane composed of a polyester reinforcement coated with SBS modified bitumen
	Application:	Mechanically fixed
	Eligible Products:	Elastoflex S6 HP

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

CUSTOMER:	Polyglass USA, Inc.	PUBLICATION DATE:	2025-05-01
DOCUMENT NO.	PLYG-MARS-2	REVISION NO.	R3
TEST PANEL NO.	PLYG-D7	REEVALUATION DATE:	2028-05-01



PRODUCTS/APPLICATION (CONTINUED):			
Base Sheet Fasteners:	Description:	Corrosion resistant screw-type roofing fasteners with steel stress plates	
	Fastening Method:	Fasteners installed through stress plates at the minimum 127-mm (5-inch) wide side laps positioned to engage the top flange of the steel deck, and spaced maximum 152-mm (6-inch) o.c. Fastener rows encapsulated within the side laps by heat-weld or torch-sealing the subsequent membrane run thereto.	
	Fastener Density:	1 per 0.13 m ² (1.4 ft ²)	
	Eligible Products:	OMG, Inc.:	OMG Super XHD with OMG 2-3/4" Barbed SXHD Plate
	Altenloh, Brinck & Co.US:	Trufast #15 EHD with Trufast 2.75" Barbed Metal Seam Plates	
Insulation:	Description:	Polyisocyanurate foam insulation board laminated on both sides with fiber reinforced felt or coated glass facer	
	Application:	Loose-laid	
	Thickness:	Minimum 38-mm (1.5-inch)	
	Eligible Products:	Polyglass:	Polytherm, Polytherm G, Polytherm H or Polytherm K
Vapour Barrier:	Description:	Membrane composed of a fiberglass reinforcement coated with SBS modified bitumen	
	Application:	Self-adhered	
	Eligible Products:	Elastobase SA or Elastoflex SA V	
Thermal Barrier (Optional):	Description:	Cement-based, gypsum-based or mineral-wool board	
	Application:	Loose-laid, adhered or mechanically fixed	
	Eligible Products:	Any approved product acceptable to Polyglass and the Authority Having Jurisdiction	
Deck:	Tested Product:	Steel roof deck	

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

CUSTOMER:	Polyglass USA, Inc.	PUBLICATION DATE:	2025-05-01
DOCUMENT NO.	PLYG-MARS-2	REVISION NO.	R3
TEST PANEL NO.	PLYG-D7	REEVALUATION DATE:	2028-05-01



Page 3 of 3

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:	The base sheet fastener point-loads resisted during this test are: <ul style="list-style-type: none"> • Test Value: 1575 N (354 lbf) • Design Value: 1050 N (236 lbf)

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
2019-05-24	REV1	Name change: Elastoflex S6 Type II to Elastoflex S6 HP Add: OMG Super XHD with OMG 2-3/4" Barbed SXHD Plate	RN
2021-02-19	REV2	Re-Validation Name change: Elastobase to Elastobase V Name change: Polyglass HT Base 650 to Elastoshield VP HT Add: Elastobase SA as vapour barrier	RN
2025-05-09	REV3	Re-Validation Reformat per customer	RN

This report and the data contained therein is the sole property of NEMO|etc. and the named customer. This report shall not be reproduced outside NEMO|etc. except by the named customer without written permission by the named customer, in which case the report shall be reproduced in its entirety.

END OF REPORT