



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:	Amrize Building Envelope LLC (Duro-Last)	TEST DATE:	2017-07-07
DOCUMENT NO.	DL-AARS-1	PUBLICATION DATE:	2025-07-17
TEST PANEL NO.	DRL-D2	REVISION NO.	3
SYSTEM TYPE:	A-2	REEVALUATION DATE:	2028-07-16

ADHESIVE APPLIED ROOFING SYSTEM (AARS) SUMMARY

ROOFING SYSTEM SUMMARY:

Roof Cover:	PVC single ply, adhesive-applied
Coverboard:	Gypsum-based board, adhesive applied
Insulation:	Polyisocyanurate foam board, adhesive-applied
Vapor Barrier:	SBS modified bitumen membrane with trilaminate woven polyethylene top surface, self-adhering
Thermal Barrier:	Gypsum-based board, adhesive-applied
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
-6,3	-131	-4,1	-85	-4,2	-87

PRODUCTS / APPLICATION:

Roof Cover:	Description:	Membrane composed of polyester reinforcement coated with PVC compound and a fleece backing			
	Application:	Adhesive-applied			
	Eligible Products:	Duro-Fleece or Duro-Fleece Plus			
Roof Cover Adhesive:	Description:	Polyurethane based insulation adhesive			
	Application:	Splatter-applied			
	Eligible Products:	By	Product	Rate	
		Amrize (Duro-Last)	Duro-Fleece CR-20 Membrane Adhesive	5 lbs/square	
		Amrize (Elevate)	Elevate Twin Jet Y		
ICP Construction	Polysat Commercial Roof Adhesive				
Coverboard:	Description:	Gypsum-based board			
	Application:	Adhesive-applied			
	Eligible Products:	By	Product	Min. Thickness	
Georgia-Pacific Gypsum		DensDeck Prime or DensDeck StormX Prime	13-mm (0.25-inch)		

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

CUSTOMER:	Amrize Building Envelope LLC (Duro-Last)	PUBLICATION DATE:	2025-07-17
DOCUMENT NO.	DL-AARS-1	REVISION NO.	3
TEST PANEL NO.	DRL-D2	REEVALUATION DATE:	2028-07-16



PRODUCTS/APPLICATION (CONTINUED):				
Coverboard Adhesive:	Description:	Polyurethane based insulation adhesive		
	Application:	Continuous ribbons, 305-mm (12-inch) on-center		
	Eligible Products:	By	Product	
		Amrize (Duro-Last)	Duro-Grip CR-20, Duro-Grip Millennium One Step or Duro-Grip OlyBond 500	
		Amrize (Elevate)	Elevate Twin Jet Y, Elevate I.S.O. Twin Pack or Elevate I.S.O. Stick	
		H.B. Fuller Company	Millennium One Step Foamable Adhesive	
		ICP Construction	Polyset Commercial Roof Adhesive	
OMG	OlyBond 500			
Insulation:	Description:	Polyisocyanurate board		
	Application:	One or more layers with staggered joints, adhesive-applied		
	Eligible Products:	Product	Min. Thickness	
		Duro-Guard ISO II-A, Duro-Guard ISO II-E2 or Duro-Guard ISO II-H	25-mm (1-inch)	
Insulation Adhesive:	Description:	Polyurethane based insulation adhesive		
	Application:	Continuous ribbons, 305-mm (12-inch) on-center		
	Eligible Products:	By	Product	
		Amrize (Duro-Last)	Duro-Grip CR-20, Duro-Grip Millennium One Step or Duro-Grip OlyBond 500	
		Amrize (Elevate)	Elevate Twin Jet Y, Elevate I.S.O. Twin Pack or Elevate I.S.O. Stick	
		H.B. Fuller Company	Millennium One Step Foamable Adhesive	
		ICP Construction	Polyset Commercial Roof Adhesive	
OMG	OlyBond 500			
Vapour Barrier:	Description:	SBS modified bitumen membrane with trilaminate woven polyethylene top surface		
	Application:	Self-adhering		
	Eligible Products:	Duro-Last Vapor Barrier		
Primer:	Description:	SBS polymer-based primer		
	Application:	0.5 gal/square		
	Eligible Products:	By	Product	
		SOPREMA	ELASTOCOL Stick	
Thermal Barrier:	Description:	Gypsum-based board		
	Application:	Adhesive-applied		
	Eligible Products:	By	Product	
		USG Corporation	SECUROCK Gypsum-Fiber Roof Board	
Thermal Barrier Adhesive:	Description:	Polyurethane based insulation adhesive		
	Application:	Continuous ribbons, 152-mm (6-inch) on-center (parallel to and atop every deck flange)		
	Eligible Products:	By	Product	
		Amrize	Duro-Grip Millennium One Step	
H.B. Fuller Company	Millennium One Step Foamable Adhesive			
Deck:	Tested Product:	Steel roof deck		

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

CUSTOMER:	Amrize Building Envelope LLC (Duro-Last)	PUBLICATION DATE:	2025-07-17
DOCUMENT NO.	DL-AARS-1	REVISION NO.	3
TEST PANEL NO.	DRL-D2	REEVALUATION DATE:	2028-07-16



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 may be specified at the discretion of the Designer of Record to the satisfaction of the Authority Having Jurisdiction.

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:
2021-01-11	FINAL	None	RN
2022-07-12	REV1	Re-Validation	RN
2023-03-17	REV2	Correct units in performance summary section	RN
2025-07-11	DRAFT REV3	For customer review	RN
2025-07-17	REV3	After customer review; Re-Validation; reformat; add insulation options; add insulation-adhesive options; remove INSTA-STIK	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