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ENGINEER

EVALUATE

TEST

CONSULT

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

CLIENT:	DURO-LAST, INC.	TEST DATE:	2019-06-04
DOCUMENT NO.	DL-MARS-13.1	PUBLICATION DATE:	2022-07-12
TEST PANEL NO.	DL-D1	REVISION NO.	1
SYSTEM TYPE:	C-2	REEVALUATION DATE:	2025-07-12

**MECHANICALLY ATTACHED ROOFING SYSTEM (MARS) SUMMARY**

PERFORMANCE⇒	PASSING PRESSURE	WIND UPLIFT RESISTANCE (with SF of 1.5)
	70 psf (3.4 kPa)	47 psf (2.2 kPa)

COMPONENT	ALLOWABLE PRODUCTS	BY
MEMBRANE⇒	Duro-Last X membrane (min. 50-mil)	Duro-Last, Inc.
ATTACHMENT:	induction welded using induction welding tool in accordance with the manufacturer's published instructions	
INSULATION, TOP LAYER⇒	min. 1-inch thick thick Duro-Guard ISO II-H, Duro-Guard ISO II-G, Duro-Guard ISO II-A, Duro-Guard ISO III-H or Duro-Guard ISO III-A	Duro-Last, Inc.
ATTACHMENT:	Mechanically attached; 24 x 24-inch staggered grid pattern (1 per 4 ft2)	
	Duro-Last #15 Extra Heavy Duty Drill Point Fastener with Duro-Bond Plate 1302 or Duro-Bond PVC IW Plates	Duro-Last, Inc.
	OMG XHD screw with RHINO BOND Insulation Plate (PVC)	OMG, Inc.
	Trufast #15 EHD with Trufast PVC IW Plate	Altenloh, Brinck & Co., U.S., Inc.

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

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COMPONENT	ALLOWABLE PRODUCTS	BY
INSULATION, BASE LAYER⇒	One or more layer(s), min. 1-inch thick:	
	Duro-Guard ISO II-H, Duro-Guard ISO II-G, Duro-Guard ISO II-A, Duro-Guard ISO III-H or Duro-Guard ISO III-A	Duro-Last, Inc.
	Terrafoam® EPS Rigid Insulation	Beaver Plastics, Ltd.
	R-TECH®	Insulfoam, LLC
	PolyPro	Perma R Products, Inc.
	PlastiSpan	Plasti-Fab, Ltd.
ATTACHMENT:	Loose-laid	
VAPOUR BARRIER⇒	(Optional) Duro-Blue	Duro-Last, Inc.
ATTACHMENT:	loose-laid with taped joints	
THERMAL BARRIER⇒	(Optional) Thermal barrier of any approved type or thickness	Various
ATTACHMENT:	loose-laid, adhered or mechanically attached	
DECK⇒	Minimum 22 ga. type B steel meeting ASTM A653, A792, A1008 or CSSBI 10M standards and having a yield strength of 40 ksi (275 MPa), or alternate steel deck providing the fastener withdrawal resistance noted below	Various
FASTENER POINT-LOAD⇒	280 lbf (1245 N)	

**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="#">www.rcabc.org</a>

**REPORT HISTORY**

DATE	EVENT	NOTES	AUTHORIZED BY:
2021-04-26	FINAL	New RSAR for Duro-Last X systems using min. 50-mil membrane	RN
2022-07-12	RE-EVALUATION 1	None	RN

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