



**Nemo|etc.**

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

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	PUBLICATION DATE:	2022-07-12
TEST PANEL NO.	DL-D1	REVISION NO.	3
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 membrane (min. 40-mil), Duro-Last X membrane (min. 80-mil), Duro-Last EV membrane (min. 50 mil) or Duro-Tuff 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.
	Min. 0.5-inch DensDeck Prime,	G-P Gypsum
	Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board or	USG Corporation
	Min. 7/16-inch DEXcell Cement Roof Board	National Gypsum
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 ISO WELD 1302-1 plates, Duro-Bond Plate 1302 or Duro-Bond PVC IW Plates	Duro-Last, Inc.
	Dekfast™ #15 Fasteners and isoweld® Plate – PVC	SFS intec
	OMG XHD screw with RHINOBOND 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**

CLIENT:	DURO-LAST, INC.	PUBLICATION DATE:	2022-07-12
DOCUMENT NO.	DL-MARS-13	REVISION NO.	3
TEST PANEL NO.	DL-D1	RE-EVALUATION DATE:	2025-07-12

Page 2 of 2


**NEMO|etc.**

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:
2021-01-11	FINAL	None	RN
2021-04-22	REVISION 1	Additional base insulation options; add Duro-Last X	RN
2021-09-15	REVISION 2	Additional top layer insulation options	RN
2022-07-12	RE-EVALUATION 3	None	RN

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

**END OF REPORT**