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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	PUBLICATION DATE:	2021-01-11
TEST PANEL NO.	DL-D1	REVISION NO.	0
SYSTEM TYPE:	C-2	REEVALUATION DATE:	2024-06-04

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 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.
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 RHINO BOND Insulation Plate (PVC)	OMG, Inc.
	Trufast #15 EHD with Trufast PVC IW Plate	Altenloh, Brinck & Co., U.S., Inc.

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COMPONENT	ALLOWABLE PRODUCTS	BY
INSULATION, BASE LAYER⇒	One or more layer(s), 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:	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)	TL-689
TAS 301 Certification	Miami-Dade	17-1214.02
Third Party Test Data Program	UL, LLC	DA2862
Test Lab Listing	Roofing Contractors Association of British Columbia	www.rcabc.org

REPORT HISTORY

DATE	EVENT	NOTES	AUTHORIZED BY:
2021-01-11	FINAL	None	RN

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