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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:	2017-07-03
DOCUMENT NO.	DL-MARS-12	PUBLICATION DATE:	2022-07-12
TEST PANEL NO.	DRL-D1F	REVISION NO.	1
SYSTEM TYPE:	D-1	REEVALUATION DATE:	2025-07-12

MECHANICALLY ATTACHED ROOFING SYSTEM (MARS) SUMMARY

PERFORMANCE⇒	PASSING PRESSURE	WIND UPLIFT RESISTANCE (with SF of 1.5)
	112 psf (5.4 kPa)	75 psf (3.6 kPa)

COMPONENT	ALLOWABLE PRODUCTS	BY
MEMBRANE⇒	Duro-Last, min. nominal 40-mil	Duro-Last, Inc.
ATTACHMENT:	Mechanically attached, 12-inch o.c. within 3-inch wide fastening tabs spaced 60-inch o.c.	
	Duro-Last #15 Extra Heavy Duty with Duro-Last Poly-Plates or Duro-Last Cleat-Plates	Duro-Last, Inc.
INSULATION, TOP LAYER⇒	Min. 1-inch thick DURO-GUARD ISO II-A, DURO-GUARD ISO II-G, DURO-GUARD ISO II-H, DURO-GUARD ISO III-A or DURO-GUARD ISO III-H	Duro-Last, Inc.
ATTACHMENT:	Mechanically attached; 1 per 5.3 ft ² ; 6 parts per 4x8 ft board	
	Duro-Last #14 Heavy Duty with Duro-Last 3-inch Metal Plates	Duro-Last, Inc.
INSULATION, BASE LAYER⇒	One or more layers, min. 1-inch thick DURO-GUARD ISO II-A, DURO-GUARD ISO II-G, DURO-GUARD ISO II-H, DURO-GUARD ISO III-A or DURO-GUARD ISO III-H	Duro-Last, Inc.
ATTACHMENT:	Loose-laid	
VAPOUR BARRIER⇒	(Optional) Duro-Blue or Duro-Last Vapor Barrier	Duro-Last, Inc.
ATTACHMENT:	Duro-Blue: loose-laid with taped joints Duro-Last Vapor Barrier: self-adhering	
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⇒	Insulation Fasteners: 594 lbf (2642 N) Membrane Fasteners: 560 lbf (2491 N)	

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**NEMO|etc.****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	www.rcabc.org

REPORT HISTORY

DATE	EVENT	NOTES	AUTHORIZED BY:
2021-01-11	FINAL	None	RN
2022-07-12	RE-EVALUATION 1	None	RN

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