



ENGINEER

EVALUATE

TEST

CONSULT

ROOF SYSTEM ASSESSMENT REPORT DYNAMIC UPLIFT RESISTANCE PER CSA A123.21			
CLIENT:	HOLCIM SOLUTIONS AND PRODUCTS US, LLC	TEST DATE:	2023-10-24
DOCUMENT NO.	HSP-MARS-5	PUBLICATION DATE:	2024-01-04
TEST PANEL NO.	HSP-D2	REVISION NO.	0
SYSTEM TYPE:	C-2	REEVALUATION DATE:	2027-01-03

MECHANICALLY ATTACHED ROOFING SYSTEM (MARS) SUMMARY		
PERFORMANCE ⇨	PASSING PRESSURE	WIND UPLIFT RESISTANCE (RESISTANCE FACTOR 0.65)
	135 psf (6.5 kPa)	90 psf (4.3 kPa)

COMPONENT	ALLOWABLE PRODUCTS		
	PRODUCT	ATTACHMENT	
MEMBRANE ⇨	“Elevate PVC” (min. nominal 50-mil), “Elevate PVC KEE” (min. nominal 50-mil), “Elevate UltraPly TPO” (min. nominal 45-mil) or “Elevate UltraPly TPO Platinum”	Induction welded Note: Ensure use of correct InvisiWeld plate based on type of membrane.	
COVERBOARD (OPTIONAL) ⇨	Min. 0.25-inch Georgia-Pacific Gypsum LLC “DensDeck Prime® Roofboard”, United States Gypsum “SECUROCK® Gypsum-Fiber Roof Board” or “SECUROCK® Glass-Mat Roof Board”, min. 0.5-inch “ISOGARD HD” or min. 7/16-inch APA rated OSB.	Coverboard (if installed) or top layer insulation mechanically attached using “Elevate Heavy Duty Fasteners” with “Elevate PVC InvisiWeld Plates” or “Elevate UltraPly TPO InvisiWeld Plates” at 1 per 2.7 ft <sup>2</sup> (12 parts per 4x8 ft board)	
INSULATION ⇨	One or more layers, “ISO 95+ GL” “ISOGARD GL”, “RESISTA”, “ISOGARD CG” and/or one layer “HailGard”, “ISOGARD HG” or “ISOGARD HD Composite”; top layer min. 1.5-inch thick		
VAPOUR BARRIER ⇨	6-mil polyethylene or kraft-paper or “V-Force™ Vapor Barrier Membrane” or “BASEGARD SA”		Loose-laid with taped joints
THERMAL BARRIER (OPTIONAL) ⇨	Any type or thickness acceptable to the Authority Having Jurisdiction		Self-adhering
DECK ⇨	Minimum 22 ga. type B steel meeting ASTM A653, A792, A1008 or CSSBI 10M standards and having a yield strength of 275 MPa (40 ksi) or alternate steel deck yielding the fastener withdrawal resistance noted below.	Loose-laid, adhered or mechanically-attached	
FASTENER POINT-LOAD ⇨	365 lbf (1624 N)		

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**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="#">RCABC Labs</a>

**REPORT HISTORY**

DATE	EVENT	NOTES	AUTHORIZED BY:
2024-01-02	DRAFT issued	For client review	RN
2024-01-04	FINAL issued	After client review	RN

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**END OF REPORT**