



ENGINEER

TEST

CONSULT

ROOF SYSTEM ASSESSMENT REPORT DYNAMIC UPLIFT RESISTANCE PER CSA A123.21			
CUSTOMER:	All Weather Insulated Panels	TEST DATE:	2023-11-29
DOCUMENT NO.	AWIP-MARS-1	PUBLICATION DATE:	2024-05-09
TEST PANEL NO.	AWIP-D1	REVISION NO.	1
SYSTEM TYPE:	D-1	REEVALUATION DATE:	2027-04-17

MECHANICALLY ATTACHED ROOFING SYSTEM (MARS) SUMMARY		
PERFORMANCE ⇨	PASSING PRESSURE	WIND UPLIFT RESISTANCE (RESISTANCE FACTOR 0.65)
	120 psf (5.75 kPa)	80 psf (3.83 kPa)

COMPONENT	ALLOWABLE PRODUCTS	
	PRODUCT	ATTACHMENT
MEMBRANE ⇨	Cooley "CSP-TPO 60"	Trufast #15 EHD Fasteners with Trufast 2.4-in. Barbed Seam Plates spaced 4-in. o.c. within the 6-in. wide laps spaced 72-in. o.c., sealed with 1.5-in. heat-weld and 4-in. o.c. between laps, sealed heat-welded cover strip
	Cooley "C3 Plus 60" or "C3 Plus 80"	OMG XHD Fasteners with OMG Eyehook Seam Plates or Trufast #15 EHD Fasteners with Trufast 2.4-in. Barbed Seam Plates spaced 4-in. o.c. within the 6-in. wide laps spaced 72-in. o.c., sealed with 1.5-in. heat-weld and 4-in. o.c. between laps, sealed heat-welded cover strip
	Sika Sarnafil "S327" (min. nominal 60-mil)	Sarnafastener #15 XP with Sarnadisc XPN Plates spaced 4-in. o.c. within the 6-in. wide laps spaced 72-in. o.c., sealed with 1.5-in. heat-weld and 4-in. o.c. between laps, sealed heat-welded cover strip
INSULATION ⇨	(Optional) One (1) more layers, any combination, flat (min. 1-in. thick) or tapered (avg. 1-inch thick), min. 16-psi compressive strength acceptable to the Authority Having Jurisdiction.	Topmost layer preliminarily attached with #15 roofing screws and minimum 2-in. diameter steel plates acceptable to the Authority Having Jurisdiction. 1 per 8 ft ² (4 parts per 4x8 ft board)
VAPOUR BARRIER ⇨	None	N/A
THERMAL BARRIER (OPTIONAL) ⇨	Any type or thickness acceptable to the Authority Having Jurisdiction	Loose-laid, adhered or mechanically-attached
DECK ⇨	OneDek® RD1, with min. 26 ga. steel 'skins', min. 2-in. thick x max. 40-in. wide structural insulated panels at max. 5 ft span. Panel joints perpendicular to structural members. Panels mechanically attached with five (5) Trufast #12 Purlin Fasteners and Trufast 2-in. Metal Seam Plates, equally spaced across the panel-width at each structural member.	
FASTENER POINT-LOAD ⇨	120 lbf (534 N)	

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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	RCABC Labs

REPORT HISTORY

DATE	EVENT	NOTES	AUTHORIZED BY:
2024-01-04	DRAFT	For customer review	RN
2024-04-17	FINAL	After customer review	RN
2024-05-09	REV1	Optional insulation	RN

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END OF REPORT

CSA A123.21