NORTH AMERICAN
TESTING

FALK®

TEST	METHOD	DESCRIPTION	RESULTS	
FIRE				
	ASTM E84 - 21	Standard Method of Test for Surface Burning Characteristics of Building Materials *(The foregoing test procedure is comparable to UL 723, ANSI/NFPA No. 255, and UBC No. 8- 1)*	PASS When Tested in Accordance to ASTM E84-21 the Material Resulted in a Class 'A'	Flame Spread 25 Smoke Developed 75
	ASTM E84 - 18b	Standard Method of Test for Surface Burning Characteristics of Building Materials (The foregoing test procedure is comparable to UL 723, ANSI/NFPA No. 255, and UBC No. 8- 1)	PASS When Tested in Accordance to ASTM E84-21 the Material Resulted in a Class 'A'	Flame Spread 20 Smoke Developed 300
	UL 1256 Part II - 4th	Describes a Test Which Appraises Fire Performance of Non-Metallic and Metallic Roof Deck Constructions Subjected to an Internal (Under Deck) Fire Exposure.	Flame Spread < 10 feet in 10 minutes Flame Spread < 14 feet in 30 minutes No Thermal Degradation Through all Components of the Roof Deck Assembly Decreasing Thermal Degradation With Increased Distance From Burner	3.7 Pass 7.3 Pass Met Pass Met Pass
	ASTM D1929-20	Standard Test Method for Determining Ignition Temperature of Plastics	PASS	Flash-Ignition 387°C 730°F Self-Ignition 429°C 805°
	ULC CAN-S127	Standard Corner Wall Method of Test for Flammability Characteristics of Non-Melting Foam Plastic Building Materials	PASS	Flame Spread <500 for foam core
	CAN ULC S102 - 10	Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies	PASS	Flame Spread 20 Smoke Developed 190

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	CAN/ULC-S138-06	Fire Growth of Insulated Building Panels in a Full-Scale	Meets Requirements	
	CAN/ULC S101-14	National Building Code of Canada 2015 (NBC), Article 3.1.5.7. Factory Assembled Panels clause (2) item b) iii) referencing the CAN/ULC S101-14 10 Minute Remain in Place.	Meets Requirements	
	NFPA 286	Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire	Meets Requirements	
	NFPA 285	Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components	Pass	
STRUCTURAL				
	ASTM E455, E72 and AISI S907	Shear Load Tests on Roof and Wall Panels	See Span and Load Tables	
	ASTM E1592	Gravity and Upliti Load Tests on roof Panels	See Span and Load Tables	
	ANSI FM 4474	Standard for Evaluating the Simulated Wind Uplift Resistance of Roof Assemblies	Contact FALK Customer Service	
	FM 4470	RRP-40 and SSR-42 Panels for Resistance to Foot Traffic in	Meets Requirements	
	ASTM C273/C273M-20	Standard Test Method for Shear Properties of Sandwich Core Materials	Shear Strength - 24 psf	
	ASTM D1621-16	Standard Test Method for Compressive Properties of Rigid Cellular Plastics	Compressive Strength - 21 psi	
	ASTM D1622	Standard Test Method for Apparent Density of Rigid Cellular Plastics	Apparent Density 2.31 pcf	
	ASTM D6226-21	Standard Test Method for Open Cell Content of Rigid Cellular Plastics	Open Cell Content > 90% closed cell	

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TEST	METHOD	DESCRIPTION	RESULTS	
THERMAL				
	ASTM C518-21	Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Meter Apparatus	(R) 7.5 R-VALUE [H.FT²·°F/BTU]	
AIR				
	ASTM E283/E283M-19	Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen	<0.1 L/s/m² (<0.01 cfm/ft²)	
	ASTM E1680-16	Standard Test Method for Rate of Air Leakage through Exterior Metal Roof Panel Systems	<0.01 cfm/ft2 (0.1 L/s/m2	
WATER				
	ASTM E331-00(2016)	Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference	580 Pa (12.11 psf)	Pass
	ASTM E1646-95	Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference Leakage through Exterior Metal Roof Panel Systems	12.0 psf (575 Pa) Pass 20.0 psf (958 Pa) Pass	
SPECIAL				
SPECIAL CERTIFICATION	**FLORIDA BUILDING CODE**	Florida Certificate of Product Approval # FL41818 - Structural Wall	Meets Requirements	
		Florida Certificate of Product Approval # FL41819 - Structural Roof	Meets Requirements	

07.23.V6