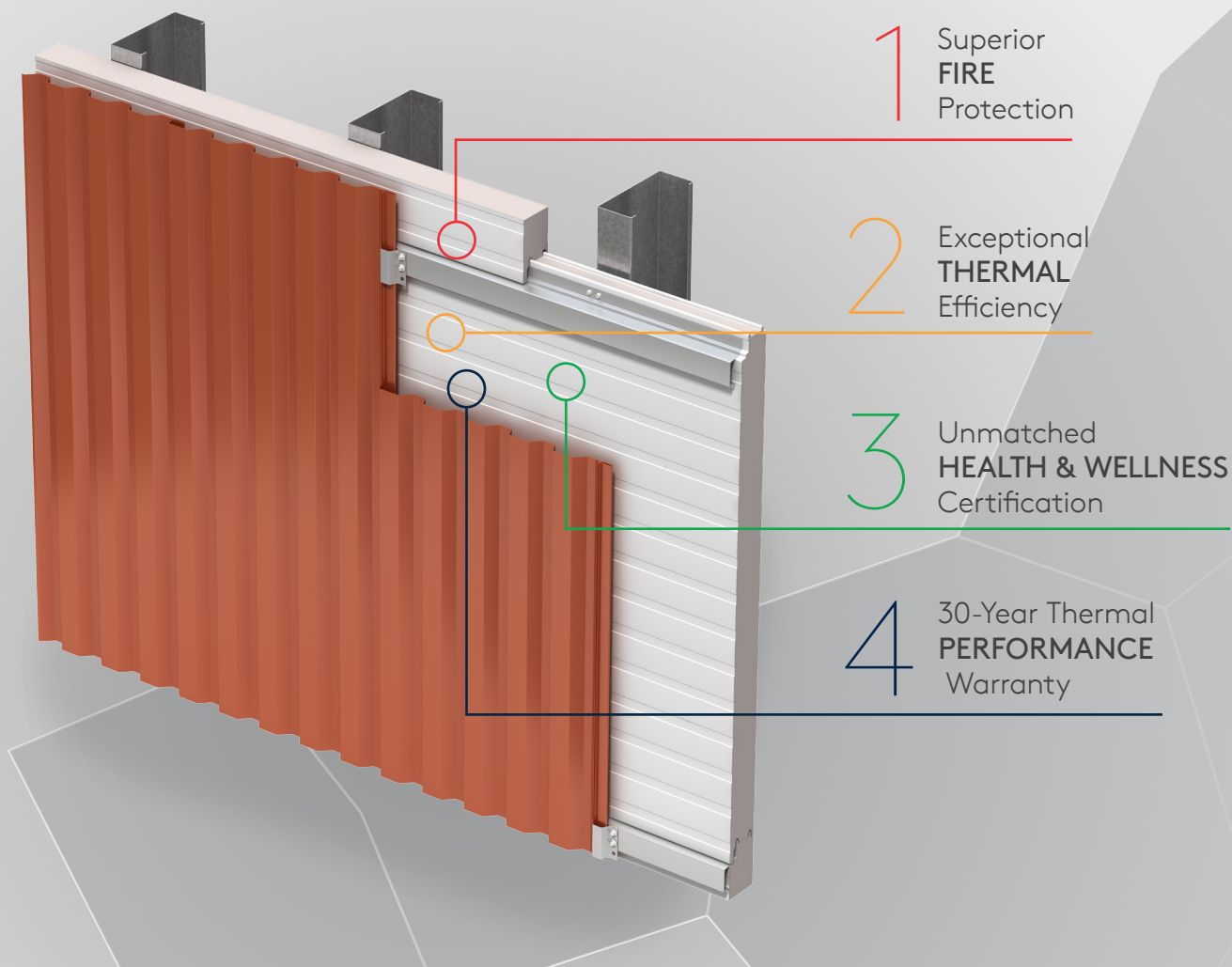




QuadCore® KarrierPanel®

Universal Barrier Wall Solution

Data Sheet



QuadCore KarrierPanel Data Sheet

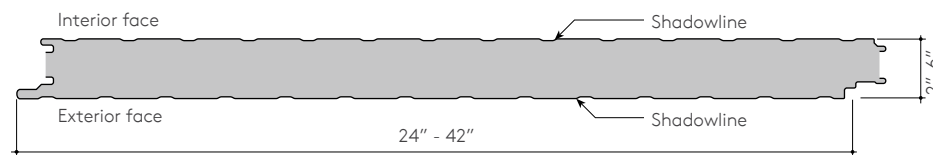
Universal Barrier Wall System



Class-leading performance in thermal, fire resistance and health & wellness

Product Specification

Insulation core:	QuadCore Technology
Profile:	Exterior: Shadowline or flat Interior: Shadowline
Embossing:	Exterior: Stucco or non-embossed Interior: Stucco or non-embossed
Gauge:	Exterior: 26, 24, 22 ga Interior: 26, 24, 22 ga
Width:	24", 30", 36", 40", 42"
Thickness:	2", 2.5", 3", 4", 5", 6"
Length:	8' - 53'
Reveal option:	3/8" to accommodate rail
Orientation:	Vertical or horizontal
Post fabrication:	N/A
R-value:	≈ 8 per inch per ASTM C518 @ 75°F mean temperature ≈ 9 per inch per ASTM C518 @ 35°F mean temperature



Unique KarrierRail

KS KarrierPanel pre-engineered wall systems with QuadCore utilizes a Kingspan designed unique rail. This stable and secure structural rail safely transmits positive loads from the multiple façades to the structural supports behind the insulated panels.

Similarly, through fasteners secure the exposed rail edge, ensuring that the system safely handles negative loads as well. The rail has been developed to fully integrate with Kingspan's KS series panel joint.

This rail system does not penetrate the air vapor barrier and enables multiple types of rain screens to be attached.

Installation is quick, simple and easy, as the rail is installed during normal panel installation, and is secured using standard panel fasteners in a one step procedure.

The standard rail configuration is 16 gauge G90 galvanized, 50 KSI steel. Available in various lengths with a 1, 2 and 3 inch bearing surface.



Customer options

Kingspan offers a full spectrum of vibrant colors for every color scheme. The high performance coatings provide long-life protection, color and gloss retention. Custom color matching is available to meet individual building designs and creative freedom.

QuadCore KarrierPanel Data Sheet

Universal Barrier Wall System

Performance Testing and Approvals

Exterior rainscreen claddings are installed over KarrierPanel, a barrier wall product. Please note, the KarrierPanel product has been evaluated and tested in accordance with various US and Canadian standards with a non-combustible cladding. Any deviation to the approved non-combustible rainscreen product for building code compliance is the responsibility of the authority having jurisdiction.

Test	Procedure	Results			
Fire	ASTM E84	Flame Spread: 25 or Less / Smoke Developed: 90 or Less			
	CAN/ULC-S101	Fire Endurance Tests: 10 min (Fastener conditions vary depending on product thickness. Please contact technical.NA@kingspanpanels.com for detailed information.)			
	CAN/ULC-S102	Flame Spread: 20 / Smoke Developed: 45 for panel insulation core			
	CAN/ULC-S127	Flame Spread: <500 for foam core			
	CAN/ULC-S134	Passed: Standard Method of Fire Test of Exterior Wall Assemblies. (Assembly-specific, non-combustible outboards only. Please contact technical.NA@kingspanpanels.com for detailed information)			
	CAN/ULC-S138	Passed: Standard Method of Test For Fire Growth Of Insulated Building Panels In A Full-Scale Room Configuration			
	NFPA 259	Tested for potential heat of building materials			
	NFPA 268	Passed: Standard test method for determining ignitability of exterior wall assemblies using a radiant heat energy source			
	NFPA 285	Passed: Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components. Facades and attachments to KarrierPanel should be evaluated as an assembly. Assembly testing is available with select facades. Please contact Kingspan Technical Services at technical.NA@kingspanpanels.com to discuss your project assembly in detail.			
Structural	ASTM E72	Vacuum chamber tested. Panel load / span and deflection tables are available			
Thermal Transmission	ASTM C518	Thermal Performance at 35°F mean temperature		Thermal Performance at 75°F mean temperature	
		Thickness	R-Value	Thickness	R-Value
		2	18	2	16
		2.5	22.5	2.5	20
		3	27	3	24
		4	36	4	32
		5	45	5	40
		6	54	6	48
		Air Infiltration	ASTM E283	0.003 CFM/ft² of Panel Area at 6.24 psf	
Water	ASTM E331	No uncontrolled water penetration at 20 psf differential pressure			
	AAMA 501.1	Dynamic water pressure testing – no sign of water leakage at 15 psf			
Fatigue	Cyclic test to positive and negative wind loading to ± L/180 deflection	The panels exceeded 2 million alternate cycles without failure or damage			
Bond Strength	ASTM D1623	Panels tested for tensile bond strength of metal to foam			
		Sample placed in an autoclave device and pressurized to 2 PSI at 218 °F for 2½ hrs			
		No skin delamination with direct pull off pressure up to 1188 psf			
Regional Approvals	City of Houston	Registration # 710A			
	IAS AC473	Certificates MB-267B, MB-277B (Shadowline and Flat profiles only)			
	City of Los Angeles (LARR)	CCRR 1074; FB 3080			

Contact Details

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