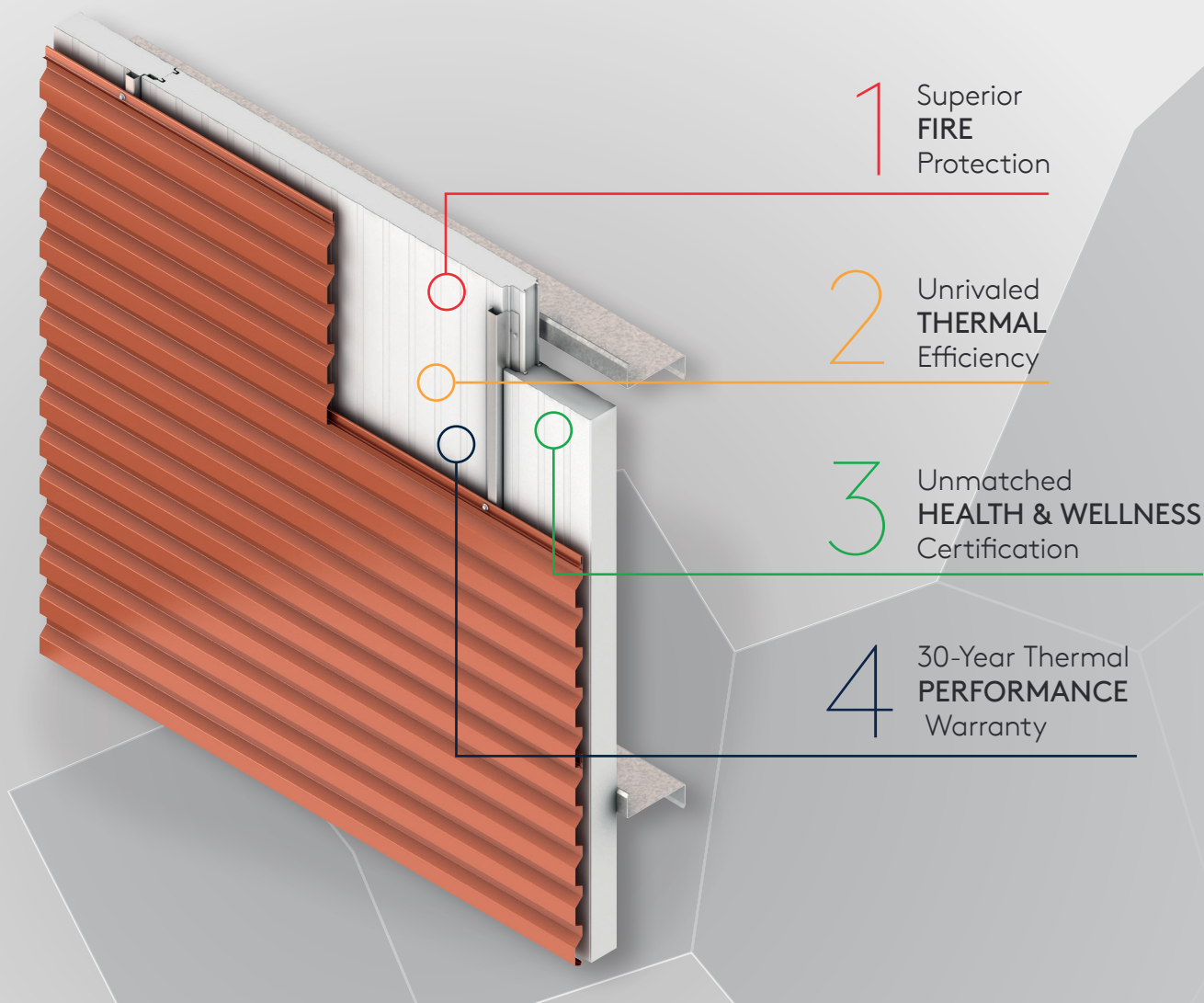




QuadCore® KarrierPanel

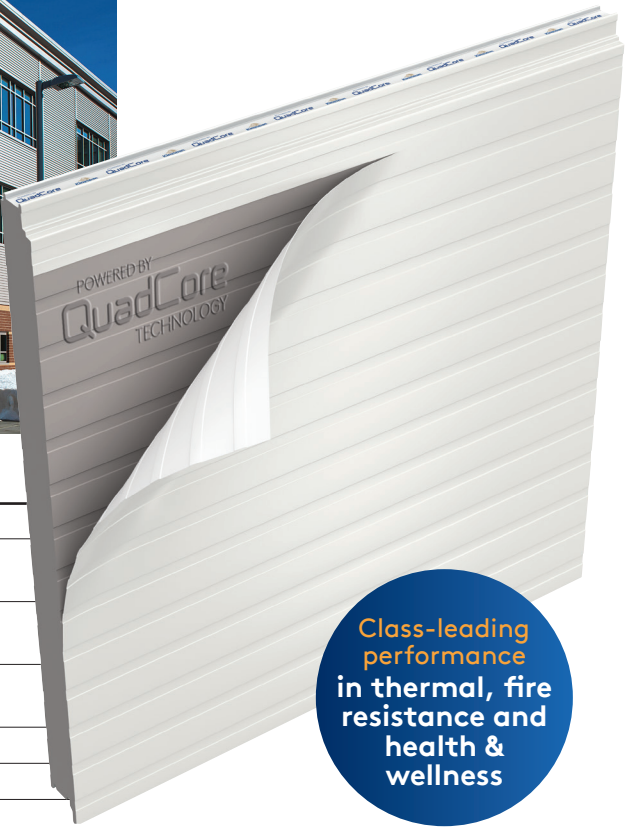
Universal Barrier Wall Solution

Data Sheet



QuadCore® KarrierPanel Data Sheet

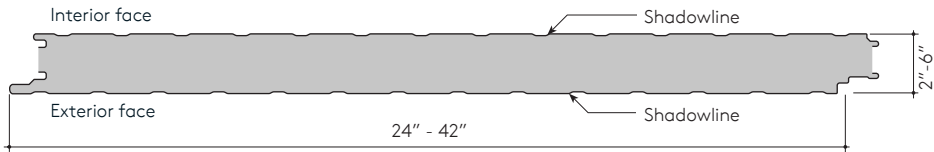
Universal Barrier Wall System



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

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



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 Galvalume, 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.

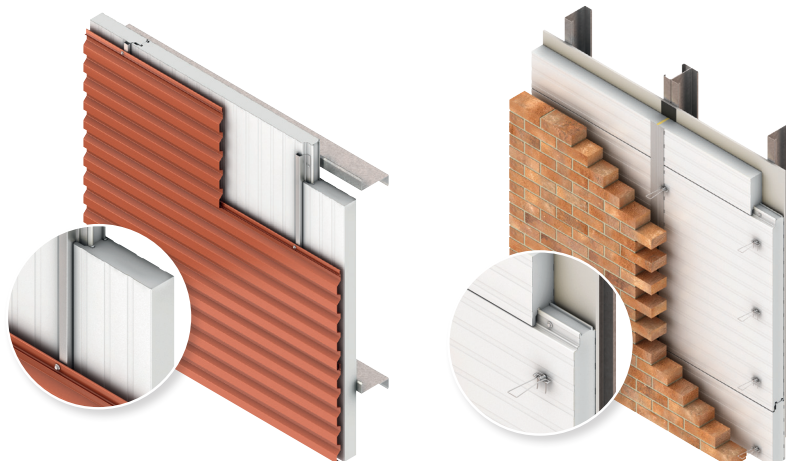
QuadCore® KarrierPanel Data Sheet

Universal Barrier Wall System

Performance Testing and Approvals

Kingspan insulated panels featuring QuadCore® Technology meet specific building envelope performance criteria and requirements stipulated by US and Canadian building codes.

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
	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
		Thickness R-Value
		2 18
		2.5 22.5
		3 27
		4 36
		5 45
		6 54
		Thermal Performance at 75°F mean temperature
		Thickness R-Value
		2 16
		2.5 20
		3 24
		4 32
		5 40
		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



Contact Details

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www.kingspanpanels.us

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For the product offering in other markets please contact your local sales representative or visit www.kingspanpanels.com
To ensure you are viewing the most recent and accurate product information, please visit www.kingspanpanels.com

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