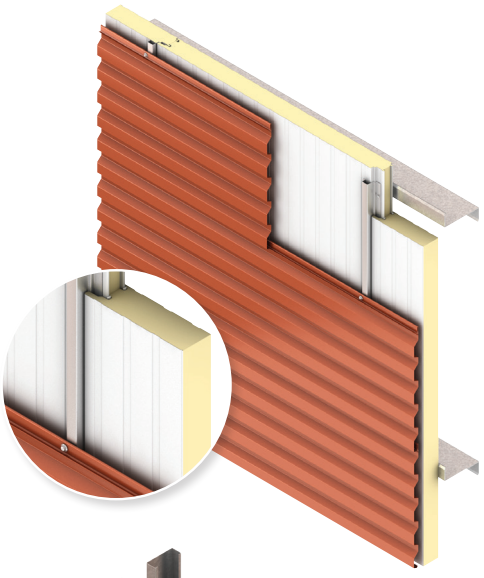
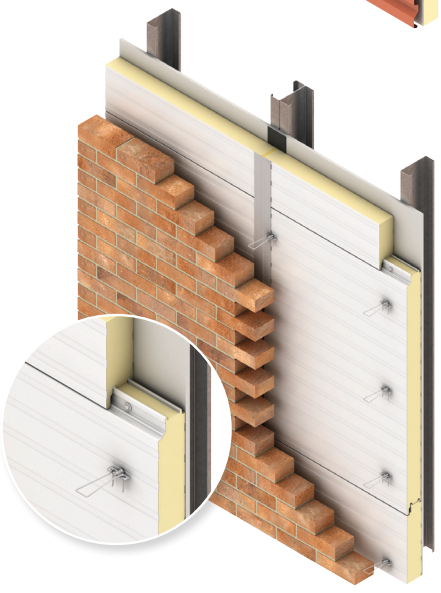
KarrierPanel® Data Sheet

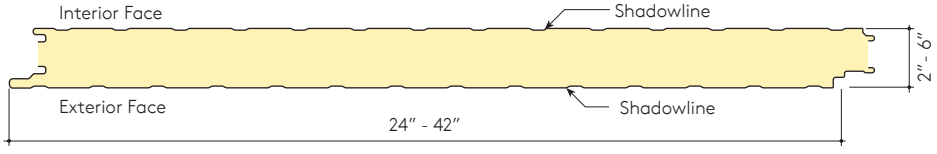
Universal Barrier Wall Solution





Product Specification

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:	≈ 7.2 per inch per ASTM C518 @ 75°F mean temperature ≈ 8.25 per inch per ASTM C518 @ 35°F mean temperature



Unique KarrierRail®

KarrierPanel® 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.

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Performance Testing and Approvals

Test	Procedure	Results
Fire	ASTM E84	Flame Spread: 25 or Less / Smoke Developed: 450 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: 35 / Smoke developed: 120 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	See nested table below
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
Bond Strength	ASTM D1623	Panels tested for tensile bond strength of metal to foam
		No skin delamination with direct pull off pressure up to 1188 psf

Thermal Performance at 75° mean temperature

Thickness	R-Value
2	14.4
2.5	18.0
3	21.6
4	28.8
5	36.0
6	43.2

Thermal Performance at 35° mean temperature

Thickness	R-Value
2	16
2.5	20
3	24
4	32
5	40
6	48

Contact Details

DeLand, FL: 877-638-3266
Modesto, CA: 800-377-5110
www.kingspanpanels.us

Caledon, ON: 866-442-3594
Langley, BC: 877-937-6562
www.kingspanpanels.ca

For the product offering in other markets please contact your local sales representative or visit www.kingspanpanels.com
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