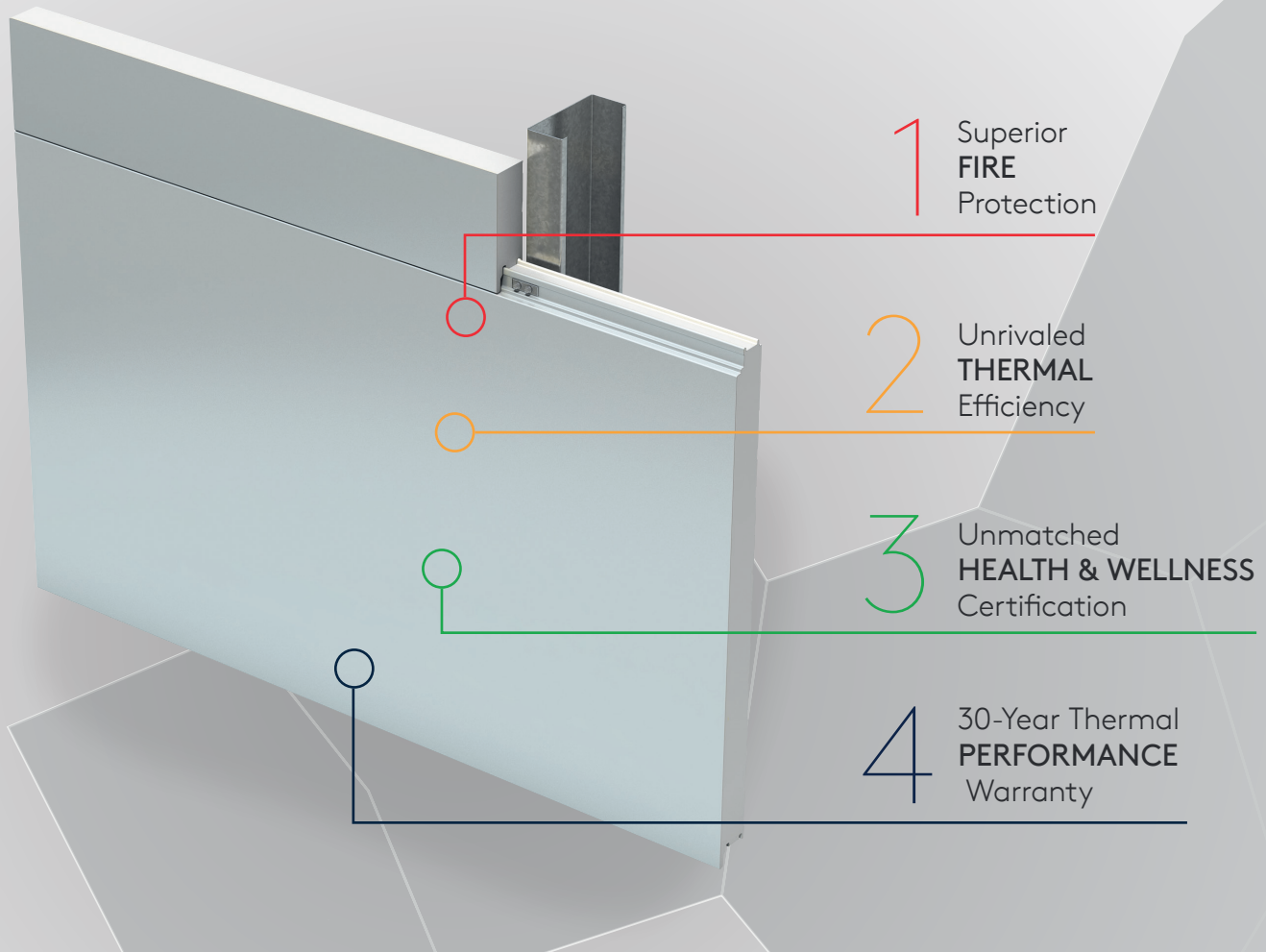




QuadCore[®] Optimo[®] Wall Series Data Sheet



1 Superior
FIRE
Protection

2 Unrivaled
THERMAL
Efficiency

3 Unmatched
HEALTH & WELLNESS
Certification

4 30-Year Thermal
PERFORMANCE
Warranty

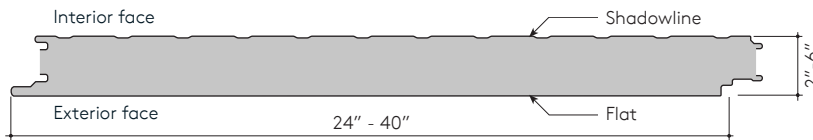
QuadCore® Optimo® Data Sheet

Insulated Wall Panel System



Product Specification

Insulation Core:	QuadCore® Technology	
Profile:	Exterior: Flat	Interior: Shadowline or flat
Embossing:	Exterior: Stucco or non-embossed Interior: Stucco or non-embossed	
Gauge:	Exterior: 22 ga Interior: 26, 24, 22 ga	
Width:	24", 30", 36", 40"	
Thickness:	2", 2.5", 3", 4", 5", 6"	
Length:	Embossed: 8' - 32' Non-embossed: 8' - 20'	
Reveal option:	Vertical: 1/8"	Horizontal: 1/8" or 3/8"
Orientation:	Vertical or horizontal	
Post fabrication (optional):	Trimless ends, folded corners, transverse bends (Manufacturing limitations apply. Please contact us for detailed information)	
R-value:	≈ 8 per inch per ASTM C518 @ 75°F mean temperature ≈ 9 per inch per ASTM C518 @ 35°F mean temperature	



Applications

KS Optimo® with QuadCore® delivers a flat appearance with a soft non-directional embossed stucco or smooth texture. KS Optimo® with QuadCore® horizontally or vertically applied, uses a patented double seal integrated joint. Standard reveals are 1/8" for vertical applications, and 3/8" for horizontal applications.

KS Optimo® with QuadCore® is suitable for new and retrofit applications across the cold storage, commercial and industrial market sectors.

Design Features

The foamed-in-place manufacturing process produces superior panels of consistent high quality that arrive to site ready for quick and easy installation, saving up to 50% in on-site construction time.

Panels are available with optional factory-caulked side joints to save erection labor (not available for cold storage applications).

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® Optimo® Data Sheet

Insulated Wall Panel 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	FM 4880	Passed: Class 1 Fire Rating of Building Panels or Interior Finish Materials*			
	FM 4882	Passed: Smoke Sensitive Occupancies Interior and Exterior Use*			
	ASTM E84	Flame Spread: 25 or Less /Smoke Developed: 50 or Less			
	CAN/ULC-S101	Fire Endurance Tests: 10 min			
	CAN/ULC-S102	Flame Spread: 20, Smoke Developed: 45 for panel insulation core			
	CAN/ULC-S138	Passed: Fire growth of foamed plastic insulated building panels in a full scale room configuration			
	CAN/ULC-S134	Passed: Standard method of test for fire of exterior wall assemblies			
	NFPA 259	Tested for potential heat of building materials			
	NFPA 285	Passed: Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components			
Structural	FM 4881	Passed. For complete wind pressure ratings please contact Kingspan Technical Services or refer to ApprovalGuide.com*			
	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/ft ² 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			
		Sample placed in an autoclave device and pressurized to 2 PSI at 212°F for 2½ hours			
Skin Delamination		No skin delamination with direct pull off pressure up to 1188 psf			

*Thickness: 2"-6", Width: 24"-42", Min. panel length: 8', Min. gauge: Exterior 26 ga, Interior 26 ga.

For FM compliance, systems must be installed in accordance with FM installation specifications as detailed on ApprovalGuide.com. Please contact technical.NA@kingspanpanels.com for detailed information or refer to ApprovalGuide.com.



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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