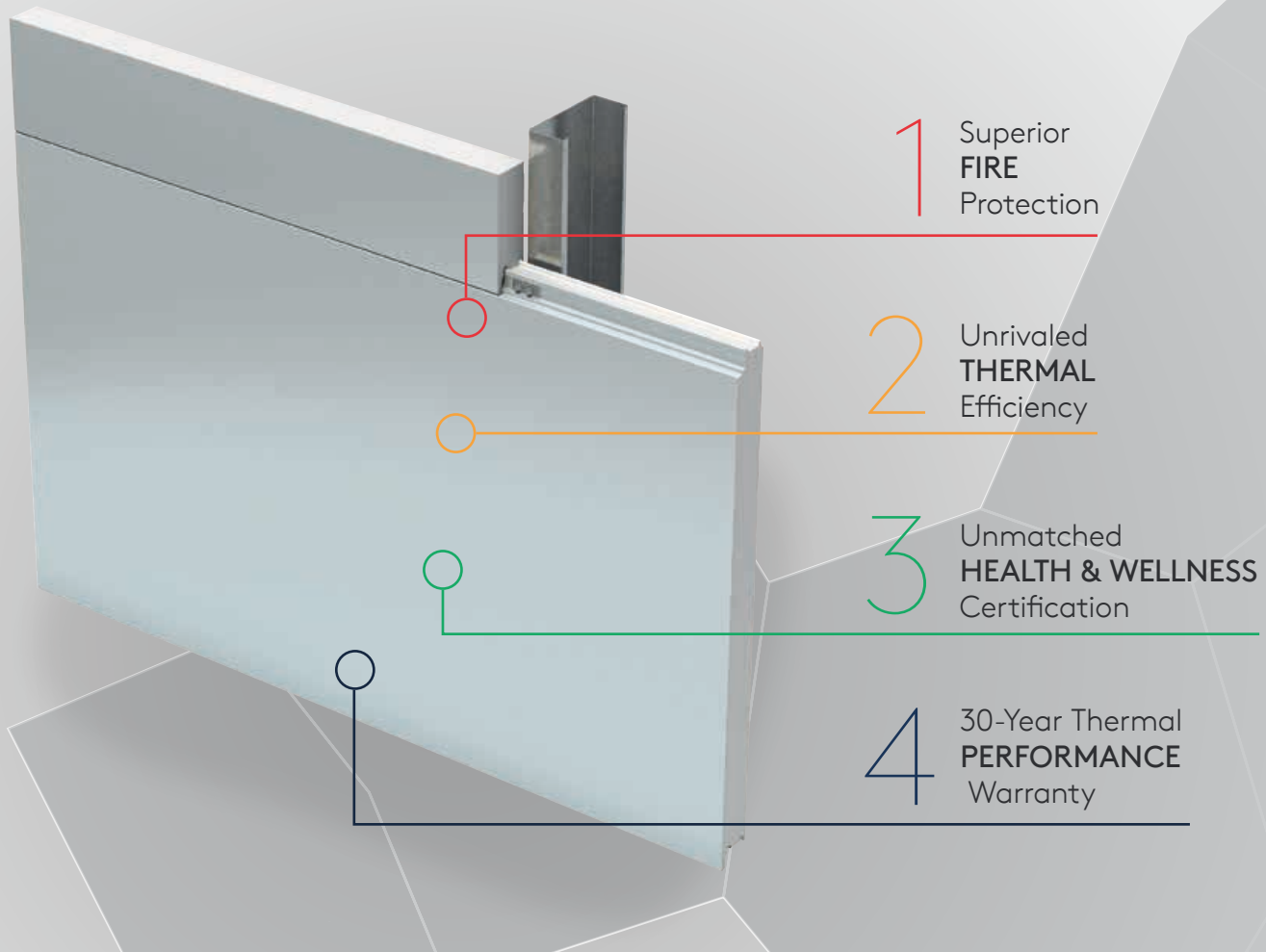




# QuadCore™ Optimo Wall Series Data Sheet



1 Superior  
**FIRE**  
Protection

2 Unrivaled  
**THERMAL**  
Efficiency

3 Unmatched  
**HEALTH & WELLNESS**  
Certification

4 30-Year Thermal  
**PERFORMANCE**  
Warranty

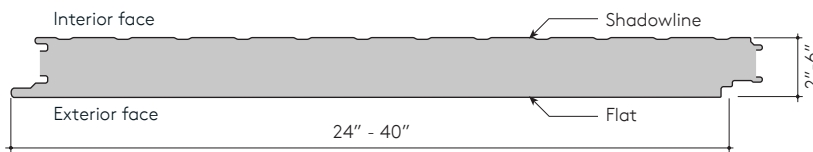
# Optimo Data Sheet

## 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:	Trimless ends, folded corners	
R-value:	8 per inch per ASTM C518 @ 75°F	



### Applications

Optimo delivers a flat appearance with a soft non-directional embossed stucco or smooth texture. Optimo 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.

Optimo 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-couled 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.



# 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 Insulated Wall or Wall and Roof / Ceiling Panels, Interior Finish Materials or Coatings, and Exterior Wall Systems		
	FM-4882	Passed: Class 1 Interior Wall and Ceiling Materials or Systems for Smoke Sensitive Occupancies		
	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 with facings		
	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: Class +110/-154 Zone H Class +100/-140 Zone HM – LM		
	ASTM E72	Vacuum chamber tested. Panel load /span and deflection tables are available		
Thermal Transmission	ASTM C518	<b>Thermal Performance at 75°</b>		
		<b>Thickness</b>	<b>K-Factor</b>	<b>R-Value</b>
		2	0.063	16.0
		2.5	0.050	20.0
		3	0.042	24.0
		4	0.031	32.0
		5	0.025	40.0
6	0.021	48.0		
Air Infiltration	ASTM E283	0.003 CFM/ft <sup>2</sup> 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		

**Kingspan North America**

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Modesto, CA: 800-377-5110

Caledon, ON: 866-442-3594

Langley, BC: 877-937-6562

[www.kingspanpanels.com](http://www.kingspanpanels.com)

For the product offering in other markets please contact your local sales representative or visit [www.kingspanpanels.com](http://www.kingspanpanels.com)

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