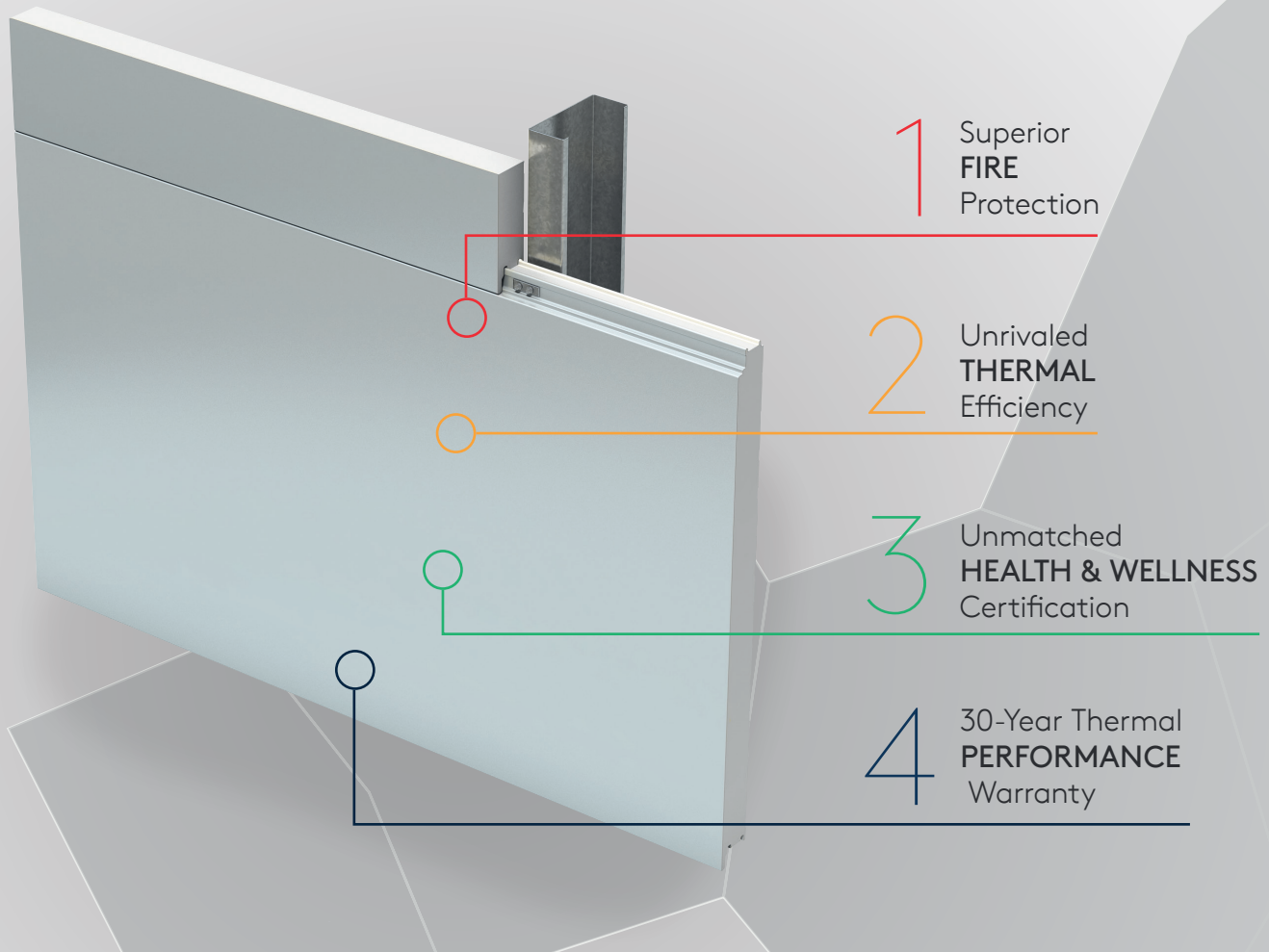




QuadCore™ Optimo Wall Series Data Sheet



1 Superior
FIRE
Protection

2 Unrivaled
THERMAL
Efficiency

3 Unmatched
HEALTH & WELLNESS
Certification

4 30-Year Thermal
PERFORMANCE
Warranty

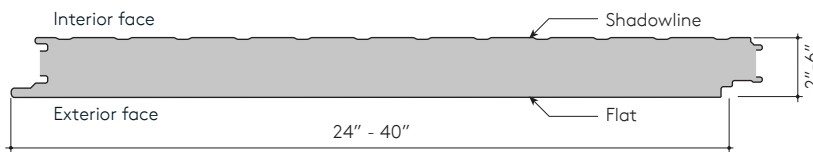
Optimo Data Sheet

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	Thermal Performance at 75°		
		Thickness	U-Factor	R-Value
		2	0.06	16
		2.5	0.05	20
		3	0.04	24
		4	0.03	32
		5	0.03	40
6	0.02	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		

Kingspan North America

DeLand, FL: 877-638-3266

Modesto, CA: 800-377-5110

Caledon, ON: 866-442-3594

Langley, BC: 877-937-6562

www.kingspanpanels.com

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

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