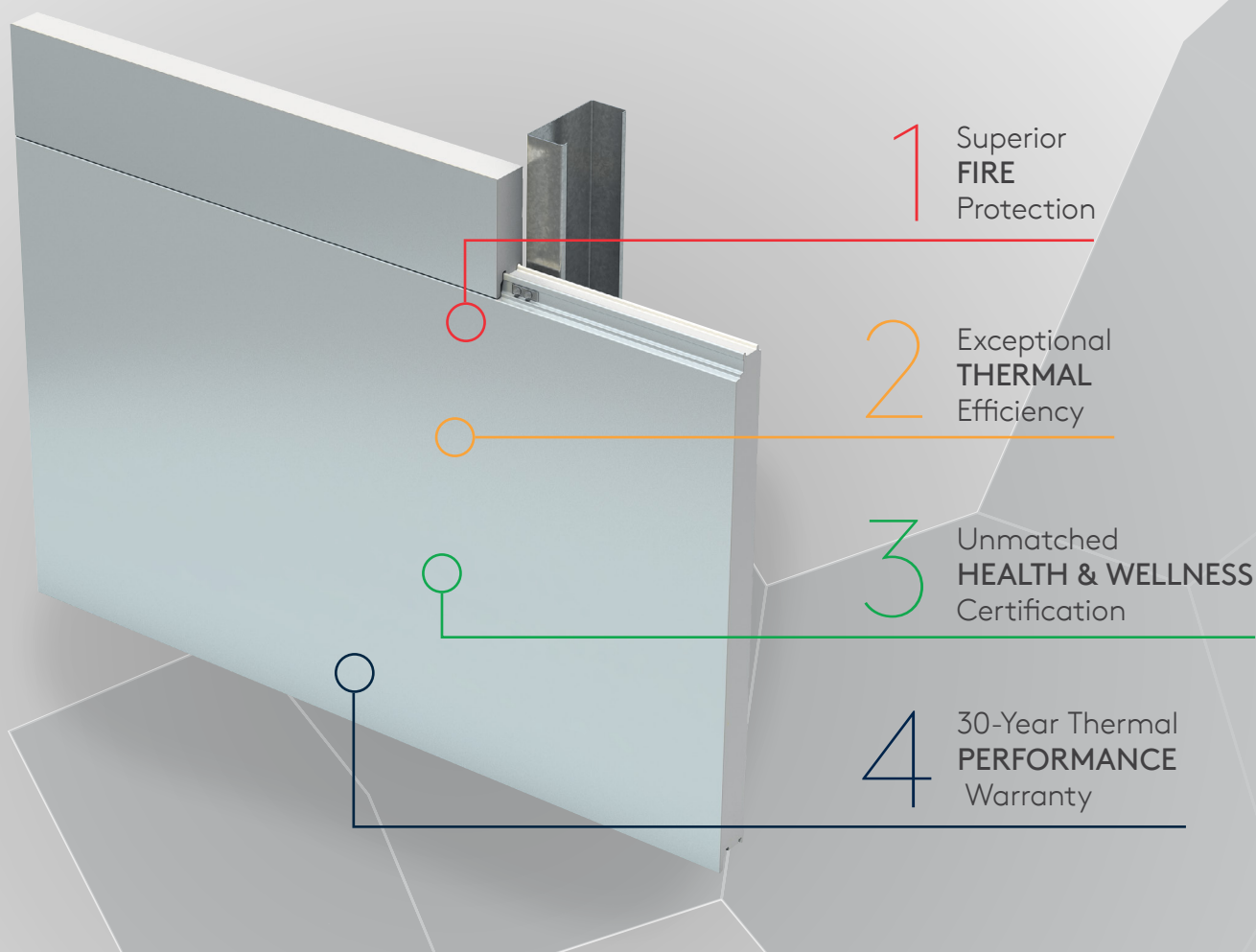


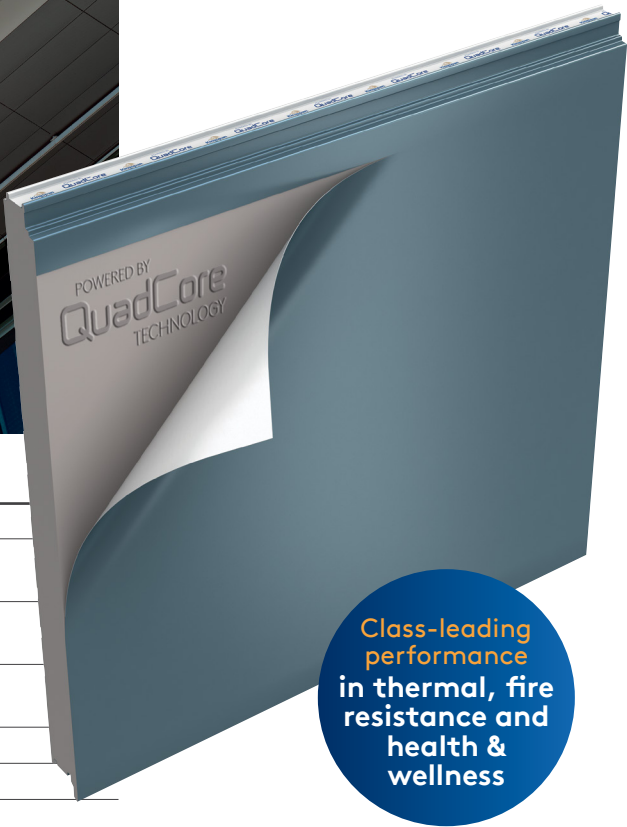


QuadCore[®] Optimo[®] Wall Series Data Sheet



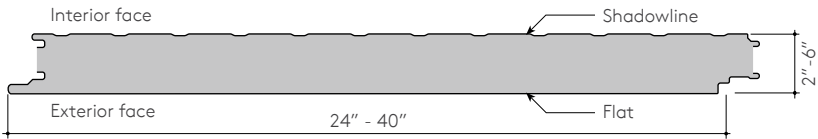
QuadCore® Optimo® Data Sheet

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:	1/8", 3/8", 1", 2"
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: 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-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	0.01 CFM/ft² of Panel Area at 6.24 psf			
		Water	ASTM E331	No 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 at 218°F for 2½ hours					
Skin Delamination		No skin delamination with direct pull off pressure up to 21 psi					
Regional Approvals	City of LA (LADBS)	CCRR 1074; FB 3080					
	FL Product Approval	FL 46087.2					
	Miami-Dade Listing	NOA 25-1029.02					
	City of Houston	Registrations #710 / #710A					
	IAS AC473	Certificates MB-267-B / MB-277-B					
	SFM 12-7A-1 (Brushfire)	Intertek Spec ID: 58965					
	TX Dept of Insurance	EC-127					
	NRCan	Walk-in freezers: Min. thickness: 4" Walk-in coolers: Min. thickness: 4" Please see NRCan.gc.ca website for listing details					

*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.



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