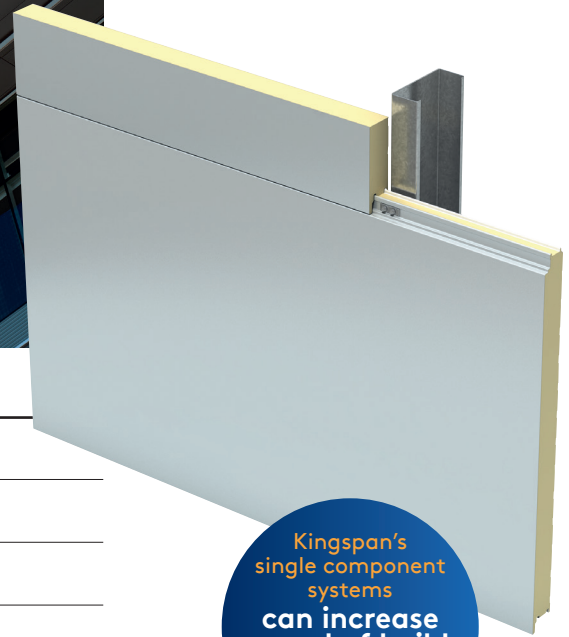


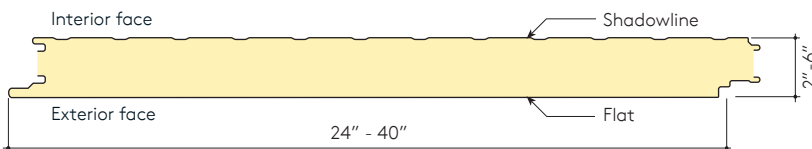
Optimo® Data Sheet

Insulated Wall Panel System



Product Specification

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



Kingspan's
single component
systems
can increase
speed of build
by up to
50%

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-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.



Optimo® Data Sheet

Insulated Wall Panel System

Performance Testing and Approvals

Kingspan insulated panels 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*			
	ASTM E84	Flame Spread: 25 or Less / Smoke Developed: 450 or Less			
	CAN/ULC-S101	Fire Endurance Tests: 10 min and 15 min stayed in place			
	CAN/ULC-S102	Flame Spread: 35, Smoke Developed: 120 for panel insulation core			
	CAN/ULC-S127	Flame Spread: <500 for foam 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 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			
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 75°F mean temperature		Thermal Performance at 35°F mean temperature	
		Thickness	R-Value	Thickness	R-Value
		2	14.4	2	16
		2.5	18.0	2.5	20
		3	21.6	3	24
		4	28.8	4	32
	5	36.0	5	40	
	6	43.2	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

Care has been taken to ensure that the contents of this publication are accurate, but Kingspan Limited and its subsidiary companies do not accept responsibility for errors or for information that is found to be misleading. Suggestions for, or description of, the end use or application of products or methods of working are for information only and Kingspan Limited and its subsidiaries accept no liability in respect thereof.

