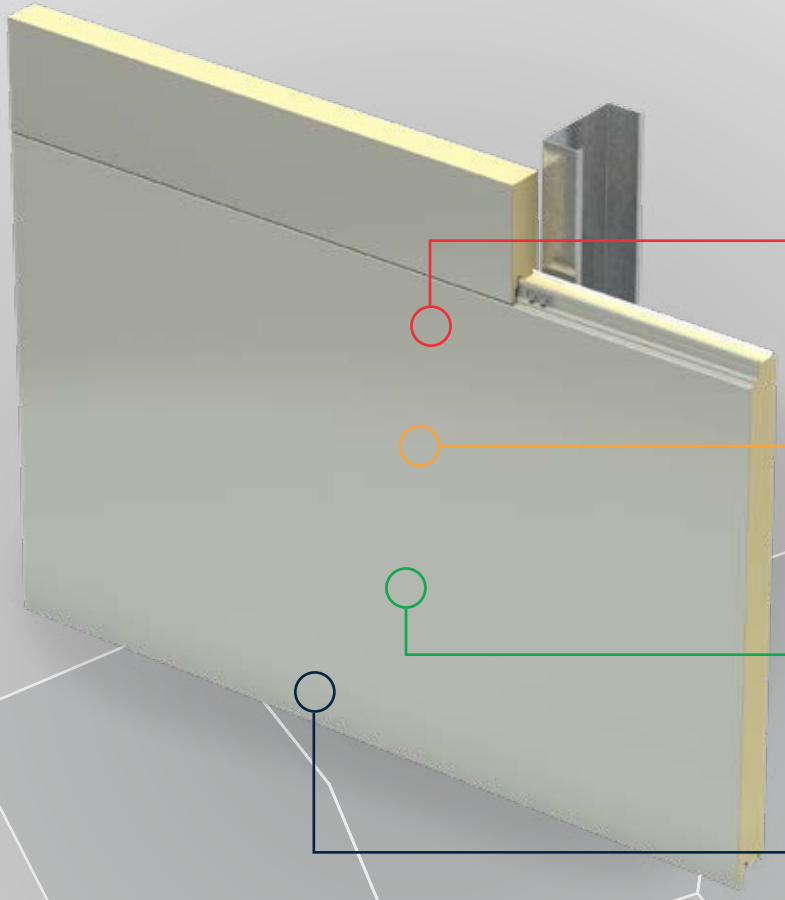
Insulated Panel Systems
Kingspan Mexico

Optimo®
Data Sheet



1 Fire **Performance** tested by independent laboratories

2 Greater **THERMAL** Performance*

*When compared with PUR polyurethane insulations

3 **Planet Passionate** our sustainability program

4 **SPEED AND EASE** of installation

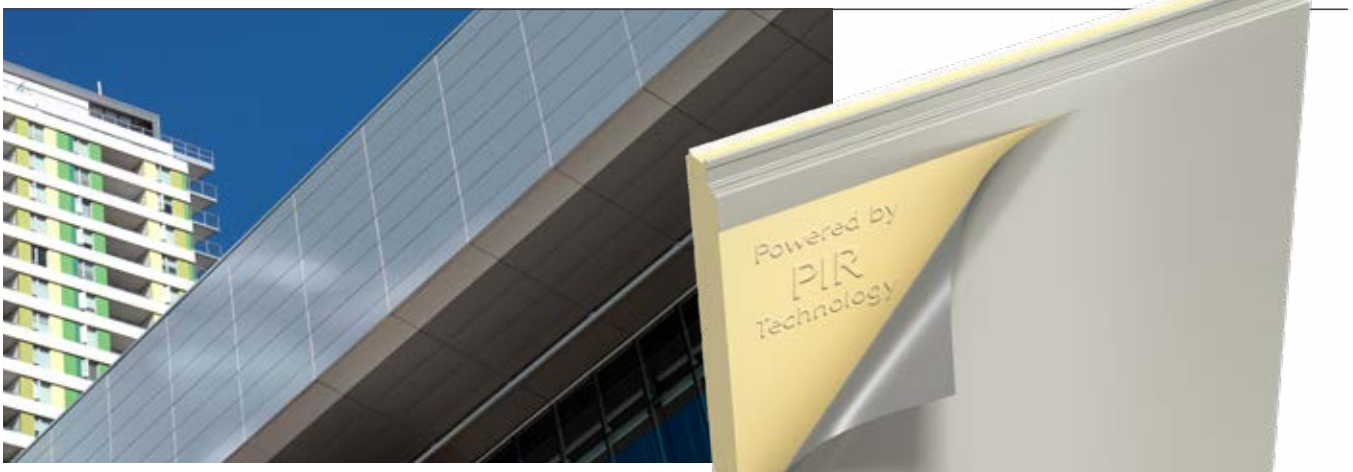
*When compared with traditional construction systems

PLANET PASSIONATE

Kingspan®

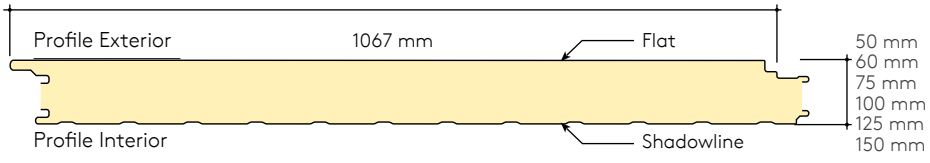
Optimo® Data Sheet

Insulated Wall Panel System



Product Specifications

Insulation Core:	Polyisocyanurate (PIRUS) with a density of 31–40 kg/m³
Profile:	Exterior: Flat Interior: Shadowline
Length:	Minimum 2.44; Maximum 6.00 m.
Gauge:	Exterior: 22 ga Interior: 26, 24, 22 ga
Width:	1.067 m.
Thickness:	50, 60, 75, 100, 125, 150 mm
Reveal Option:	1.5 mm, 3 mm, 9 mm
Orientation:	Vertical or horizontal
R-Value:	≈ 7.19 per inch according to ASTM C518 @ 24 °C ≈ 8.09 per inch according to ASTM C518 @ 1.6 °C
Base Colors:	Pure White (RAL 9010), Aluminum (RAL 9006)



Applications

Optimo® offers a flat appearance with a soft non-directional embossed finish or a smooth texture. Optimo® utilizes a patented, integrated double-sealed joint for both horizontal and vertical applications. Standard reveals are 1/8" for vertical applications and 3/8" for horizontal applications.

Optimo® is suitable for certified new construction and retrofit applications in the commercial and industrial sectors, providing a cutting-edge aesthetic.

Design Features

The foam manufacturing process produces superior, high-quality panels that arrive on-site ready for quick installation, reducing construction time by up to 50%.

Panels are available with optional factory-sealed side joints to reduce on-site assembly labor (not available for cold storage applications).

Custom Options

Kingspan offers a full range of vibrant colors for any design scheme. High-performance coatings provide durable protection while preserving color and gloss. Custom color matching is available to meet specific requirements.

Optimo® Data Sheet

Insulated Wall Panel System

Performance Testing and Approvals

Kingspan insulated panels meet specific building envelope performance criteria and the requirements stipulated by the following approvals and performance tests.

Test	Procedure	Results
Fire	FM 4880	Approved: Class 1 Fire Rating of Building Panels or Interior Finish Materials*
	ASTM E84	Fire Spread: 25 or less / Smoke Development: 450 or less
	NFPA 259	Tested for potential heat of building materials
	NFPA 285	Approved: Standard fire test method for evaluation of fire spread characteristics of non-load-bearing exterior wall assemblies containing combustible components
Structural	FM 4881	Approved. For complete wind pressure ratings, contact Kingspan Technical Service (technical.mx@kingspan.com) or consult ApprovalGuide.com*
	ASTM E72	Tested in vacuum chamber. Panel load/span and deflection tables available
Thermal Transmission	ASTM C518	Thermal Performance at a mean temperature of 24 °C / Thermal Performance at a mean temperature of 1.6 °C

Thermal Performance at a mean temperature of 24 °C		Thermal Performance at a mean temperature of 1.6 °C	
Thickness	R-Value	Thickness	R-Value
50 mm	14.2	50 mm	16.2
60 mm	17.0	60 mm	19.5
75 mm	21.3	75 mm	24.4
100 mm	28.3	100 mm	32.5
125 mm	35.4	125 mm	40.6
150 mm	42.5	150 mm	48.7

Air Infiltration air pressure*	ASTM E283	0.003 cfm/ft² of panel area at 6.24 psf
Water	ASTM E331	No water penetration at a differential pressure of 20 psf
Adhesion Strength	ASTM D1623	Panels tested for metal-to-foam tensile adhesion

* The reported values are based on a configuration requiring the use of sealants at the joint. Contact Technical Services for installation details.

The following applies to the Kingspan rigid polyisocyanurate foam core (PIRUS) for the Optimo model.

Report 1803

Test	Procedure	Results
Density:	NMX-C-126-ONNCCE-2010	31.79 kg/m³
Thermal Transmittance:	NMX-C-181-ONNCCE-2010	0.0217 W/m·K
Water Vapor Permeability:	NMX-C-2010-ONNCCE-2013	0.087 ng/Pa*s*m
Water Absorption:	NMX-C-228-ONNCCE-2013	2.079 % by weight
Moisture Adsorption:	NMX-C-228-ONNCCE-2013	21.33 % by weight

For product handling and care instructions, refer to the product installation guide.

*Thicknesses: 50 mm - 150 mm, width: 1.067 m. Minimum panel length: 2.44 m. Minimum steel thickness: Exterior 0.41 mm, interior 0.41 mm. To comply with FM, the systems must be installed according to the FM installation specifications as detailed on ApprovalGuide.com. Contact **technical.mx@kingspan.com** for detailed information or consult **ApprovalGuide.com.**
The theoretical weight of the panel per square meter is calculated using 26-gauge G60 galvanized steel for both the interior and exterior faces. Panel weight may vary depending on the steel coating, gauge, and the configuration of the interior and exterior steel sheets. For alternative configurations, please contact technical.mx@kingspan.com.

Contact

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Issue 08: 10/2026