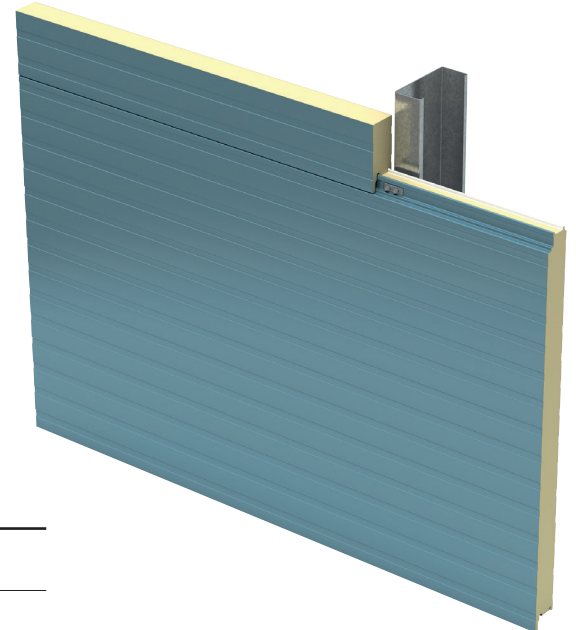


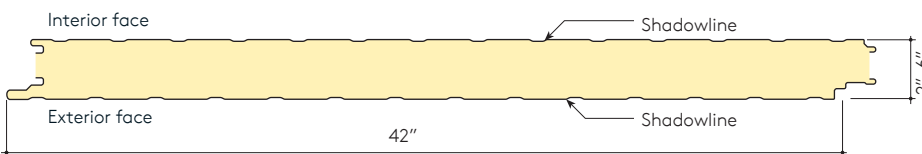
KS Shadowline Data Sheet

Insulated Wall Panel System



Product Specification

Profile:	Exterior: Shadowline Interior: Shadowline
Embossing:	Exterior: Stucco or non-embossed Interior: Stucco or non-embossed
Gauge:	Exterior: 26, 24, 22 ga Interior: 26, 24, 22 ga
Width:	24", 30", 36", 42"
Thickness:	2", 2.5", 3", 4", 5", 6"
Length:	8' - 53'
Reveal option:	Vertical: 1/8" Horizontal: 1/8" or 3/8"
Orientation:	Vertical or horizontal
Post fabrication (optional):	Trimless ends (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



Applications

Shadowline high performance wall systems deliver an attractive and affordable panel choice. Shadowline panels, horizontally or vertically applied, use a patented double seal integrated joint. Standard reveals are 1/8" for vertical applications, and 3/8" for horizontal applications.

Shadowline panels are 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.



KS Shadowline 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 (Fastener conditions vary depending on product thickness. Please contact technical.NA@kingspanpanels.com for detailed information.)																																
	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	<table border="1"> <thead> <tr> <th colspan="2">Thermal Performance at 75°F mean temperature</th> <th colspan="2">Thermal Performance at 35°F mean temperature</th> </tr> <tr> <th>Thickness</th> <th>R-Value</th> <th>Thickness</th> <th>R-Value</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>14.4</td> <td>2</td> <td>16</td> </tr> <tr> <td>2.5</td> <td>18.0</td> <td>2.5</td> <td>20</td> </tr> <tr> <td>3</td> <td>21.6</td> <td>3</td> <td>24</td> </tr> <tr> <td>4</td> <td>28.8</td> <td>4</td> <td>32</td> </tr> <tr> <td>5</td> <td>36.0</td> <td>5</td> <td>40</td> </tr> <tr> <td>6</td> <td>43.2</td> <td>6</td> <td>48</td> </tr> </tbody> </table>	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
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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																																
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
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 677-MR-PANEL
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