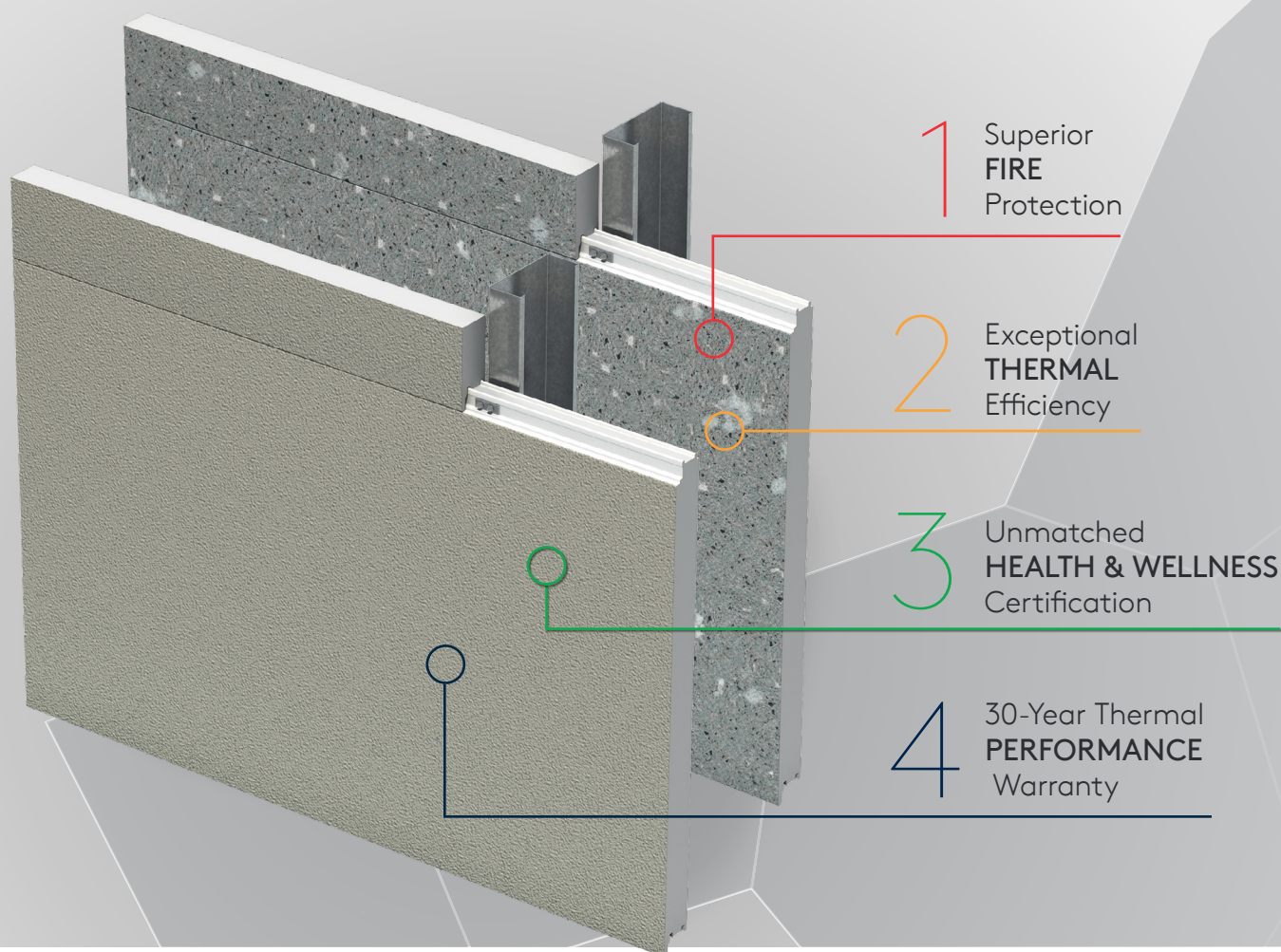


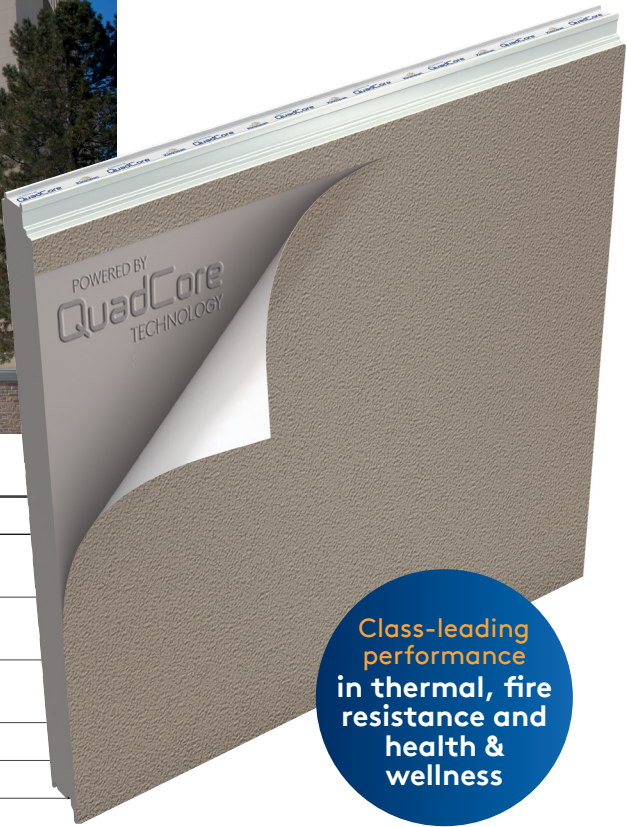


QuadCore® KS Granitstone® Wall Series Data Sheet



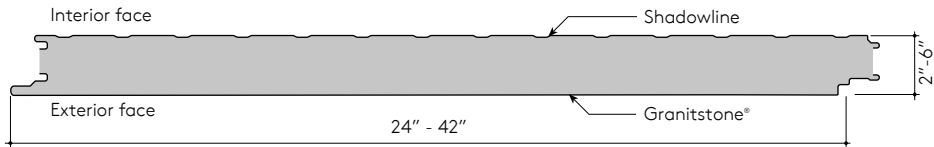
QuadCore® KS Granitstone® Data Sheet

Insulated Wall Panel System



Product Specification

Insulation core:	QuadCore® Technology
Profile:	Exterior: Flat with Granitstone® Interior: Shadowline
Embossing:	Exterior: Stucco Interior: Stucco or non-embossed
Gauge:	Exterior: 24, 22 ga Interior: 26, 24, 22 ga
Width:	24", 30", 36", 42"
Thickness:	2", 2.5", 3", 4", 5", 6"
Length:	8' - 30'
Standard reveal option:	Vertical: 1/8" or 3/8" Horizontal: 3/8"
Orientation:	Vertical or horizontal
Post fabrication (optional):	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

Granitstone® with QuadCore® high performance wall systems deliver an attractive and affordable panel choice. Granitstone® with QuadCore® 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.

Granitstone® with QuadCore® 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.

QuadCore® KS Granitstone® 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																																
	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	<table><tr><th colspan="2">Thermal Performance at 35°F mean temperature</th><th colspan="2">Thermal Performance at 75°F mean temperature</th></tr><tr><th>Thickness</th><th>R-Value</th><th>Thickness</th><th>R-Value</th></tr><tr><td>2</td><td>18</td><td>2</td><td>16</td></tr><tr><td>2.5</td><td>22.5</td><td>2.5</td><td>20</td></tr><tr><td>3</td><td>27</td><td>3</td><td>24</td></tr><tr><td>4</td><td>36</td><td>4</td><td>32</td></tr><tr><td>5</td><td>45</td><td>5</td><td>40</td></tr><tr><td>6</td><td>54</td><td>6</td><td>48</td></tr></table>	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
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Air Infiltration	ASTM E283	0.003 CFM/ft² 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 218°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.



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