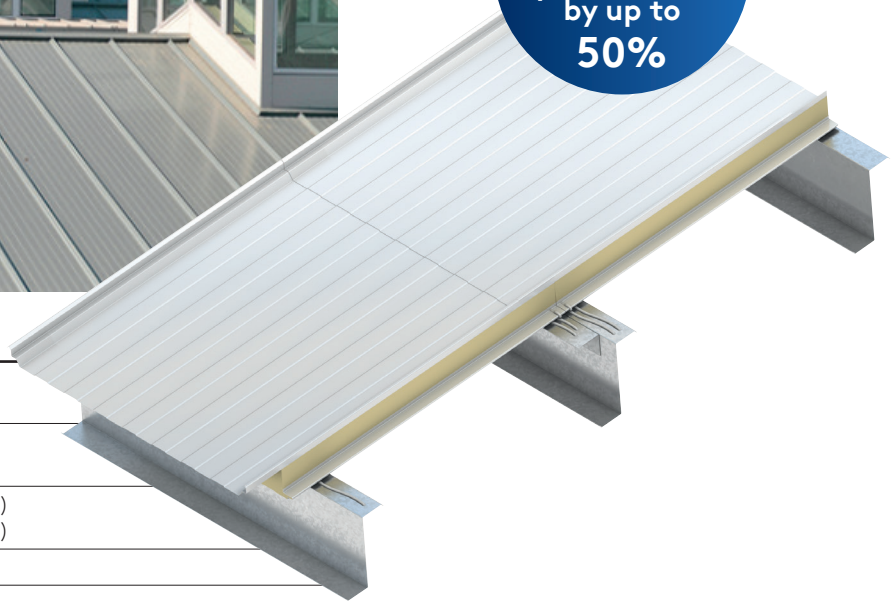


# KingSeam Data Sheet

## Insulated Standing Seam Roof Panel System

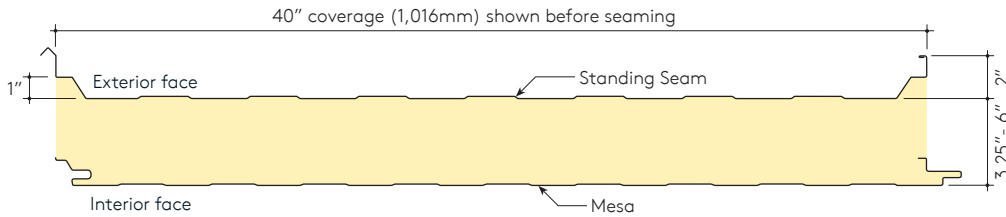


Kingspan's single component systems can increase speed of build by up to **50%**



### Product Specification

Profile:	Exterior: Ribbed standing seam Interior: Mesa
Embossing:	Exterior: Smooth Interior: Embossed
Gauge:	Exterior: 26 ga Standard (24, 22 ga optional) Interior: 26 ga Standard (24, 22 ga optional)
Width:	40"
Thickness:	3.25", 4", 5", 6"
Length:	8' - 50'
Orientation:	N/A
Post fabrication:	Cutbacks
R-value:	≈ 7.2 per inch per ASTM C518 @ 75°F ≈ 8.2 per inch per ASTM C518 @ 40°F



### Applications

KingSeam insulated standing seam roof panels are designed to offer design flexibility and aesthetics combined with high R-values and unparalleled service life performance. KingSeam is suitable for new and retrofit applications across commercial, industrial and institutional market sectors.

### Design Features

For exceptional protection against the elements, KingSeam utilizes field-seamed, hidden fastener joinery. The trapezoidal rib design reinforces KingSeam with added strength for protection against foot traffic damage. And because of the one-piece design, you can reduce construction costs and speed up build time.

The standing seam concept allows it to be utilized on roof slopes as low as 1/4:12, and cover widths of 40".



# KingSeam Data Sheet

## Insulated Standing Seam Roof Panel System

### Performance Testing and Approvals

Kingspan insulated panels meet specific building envelope performance criteria and requirements stipulated by US and Canadian building codes. Panels are tested in accordance with UL, ULC, FM and ASTM approval standards, testing methods and procedures. Kingspan insulated panels are listed by FM Global and Warnock Hersey.

Test	Procedure	Results					
Fire	FM 4880	Class 1 Fire Rating of Insulated Wall or Wall and Roof/Ceiling Panels, Interior Finish Materials or Coatings, and Exterior Wall Systems					
	ASTM E84	Flame spread: 25 or Less, Smoke developed: 450 or Less					
Wind Uplift	Factory Mutual 4471	1-105 @ 5'0" spans with minimum 12 gauge roof purlins 1-60 @ 5' spans with minimum 16 gauge roof purlins					
	UL 580 Class 90 uplift rating	5'0" spans with minimum 16 gauge purlins					
Strength	ASTM E72 Chamber Method	Panel load /span and deflection tables are available					
Thermal Transmission	ASTM C518	<b>Thermal Performance at 75°F</b>			<b>Thermal Performance at 40°F</b>		
		<b>Thickness</b>	<b>U-Factor</b>	<b>R-Value</b>	<b>Thickness</b>	<b>U-Factor</b>	<b>R-Value</b>
		3.25	0.043	23	3.25	0.040	25
		4	0.034	29	4	0.032	31
		5	0.028	36	5	0.026	39
		6	0.023	43	6	0.022	46
Air Infiltration	ASTM E1680	0.01 CFM/ft <sup>2</sup> of Panel Area @ 12 psf					
Water Penetration	ASTM E1646	No Water Penetration @ 20.0 psf					

### Kingspan North America

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For the product offering in other markets please contact your local sales representative or visit [www.kingspanpanels.com](http://www.kingspanpanels.com)

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