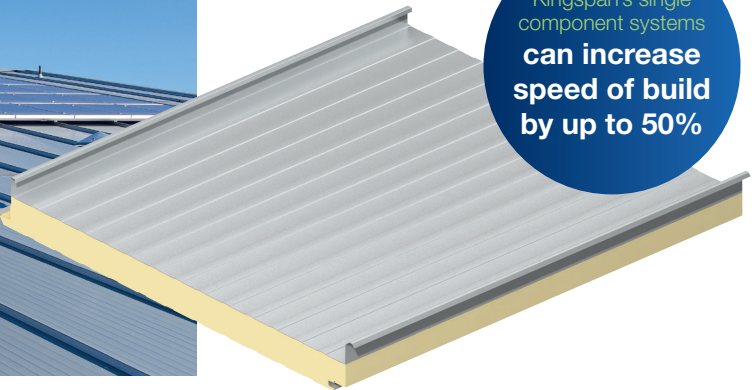


# KingZip™ Data Sheet

# Insulated Standing Seam Roof Panel System

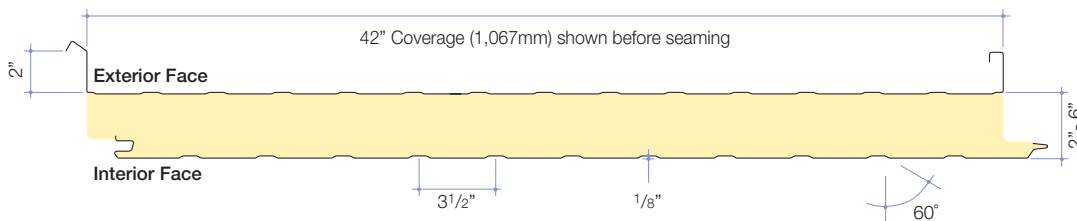


Kingspan's single component systems can increase speed of build by up to 50%



## Product Specification

<b>Thickness:</b>	2", 3", 4", 5", 6"
<b>Widths:</b>	42" standard
<b>Lengths:</b>	10'-0" to 48'-0" standard
<b>Panel Joint:</b>	Mechanically seamed 2" nominal sidelap
<b>Exterior Face:</b>	26/24/22 Ga. Embossed or Non-Embossed steel, AZ50 Galvalume® or G90 galvanized (20 Ga. available upon request)
<b>Interior Face:</b>	26/24/22 Ga. Embossed or Non-Embossed steel, AZ50 Galvalume® or G90 galvanized (20 Ga. available upon request)
<b>Core Material:</b>	Polyisocyanurate (PIR)
<b>R-Value:</b>	7.2 per inch at 75°F / 8.0 per inch at 35°F
<b>Manufacturing Process:</b>	Foamed-In-Place continuous line production (FIP)



## Applications

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

## Design Features

KingZip™ panels incorporate a vertical side seam and integral batten providing an attractive linear accent to any application. The robust one piece flat pan design of the panel is ideal for complicated roof geometries such as hips and valleys, does not require the use of underlayments, and may be applied directly over open purlins or decking.

The standing seam concept allows it to be utilized on roof slopes as low as 1/4:12, and cover widths of 42". Panel length minimum 8'-0"; maximum 52'-0".



## 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
Toxicity Test	State of New York, Article 15, Part 1120 of the New York State Uniform Fire Prevention Code	Kingspan panels are in compliance
Wind Uplift	Factory Mutual 4471	1-105 @ 5'0" spans with minimum 14 gauge roof purlins 1-60 @ 6' spans with minimum 14 gauge roof purlins
	UL 580 Class 90 uplift rating	5'0" spans with minimum 14 gauge purlins
	UL 580 Class 90 uplift rating	Panels attached to 20 gauge decking with 3' o.c. fastening
Strength	ASTM E72 Chamber Method	Panel load / span and deflection tables are available
Thermal Transmission	ASTM C1363 Guarded Hot Box	2" R = 15 U = 0.0667 3" R = 24 U = 0.0417
		4" R = 33 U = 0.0303 5" R = 41 U = 0.0244
		6" R = 48 U = 0.0208
Air Infiltration	ASTM E283 and ASTM E1680	0.003 CFM/ft <sup>2</sup> of Panel Area at 6.24 psf
Water Penetration	ASTM E331 and ASTM E1646	No Water Penetration at 20.0 psf
Fatigue Test	Subjected to 2 million alternate cycles of 20 PSF positive and negative wind loading	No metal / foam delamination or metal fatigue
Humidity Test	Sample subjected to 100% relative humidity at 140°F for 1000 hours	No evidence of metal primer corrosion
Autoclave Test	Sample placed in an autoclave device and pressurized to 2 PSI at 212 °F for 2½ hours	No evidence of delamination
Skin Delamination		No skin delamination with direct pull off pressure up to 1188 psf

### Kingspan USA

Deland, FL : 386-626-6789  
Modesto, CA : 209-531-9091  
www.kingspanpanels.us

### Kingspan Canada

Caledon, ON : 905-951-5600  
Langley, BC : 604-607-1101  
www.kingspanpanels.ca

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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