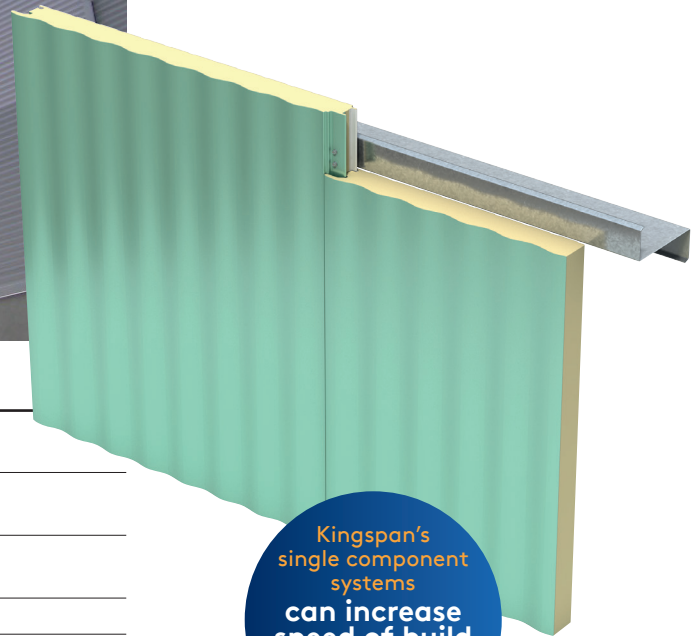


400 Wave Data Sheet

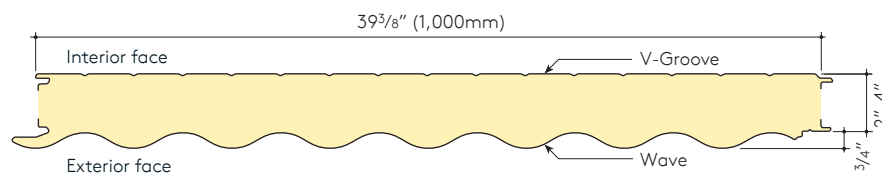
Insulated Wall Panel System



Product Specification

Profile:	Exterior: Wave Interior: V-groove
Embossing:	Exterior: Stucco or non-embossed Interior: Stucco or non-embossed
Gauge:	Exterior: 22 ga Interior: 26, 24, 22 ga
Width:	39 3/8"
Thickness:	2", 3", 4"
Length:	8' - 53'
Reveal option:	N/A
Orientation:	Vertical or horizontal
Post fabrication:	N/A
R-value:	≈ 7.2 per inch per ASTM C518 @ 75°F

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



Applications

400 Wave panels with a bold, vertical or horizontal, undulating profile create a unique architectural experience. Possessing modern European lines with a hint of classic "retro" styling, this panel is designed for the more sophisticated commercial/industrial project. 400 Wave is suitable for new and retrofit applications across commercial, industrial and institutional market sectors.

Design Features

The continuous sweeping profile of 400 Wave creates beautiful shadowing effects and the unique joint geometry with concealed fasteners creates complete continuity of the wave profile. Available in stucco embossed or smooth (minimum 24 gauge required for smooth).

One meter (39-3/8") module provides fast, efficient installation saving up to 50% in on-site construction time.

Customer Options

Choose from 20 in-stock Valspar colors or select a custom color to match your needs. For interior heavy wash down environments, plastisol (PVC) coatings as well as stainless steel facings are available.



400 Wave 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. 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		
	CAN /ULC-S102	Standard Method of Test for Surface Building Characteristics of Building Materials and Assemblies; Flame Spread: 20; Smoke Developed: 280		
	CAN /ULC-S127	Standard corner wall Method of Test for Flammability Characteristics of Non-Melting Foam Plastic Building Materials; Flame spread: 490		
	CAN /ULC-S138	Standard Method of Test for Fire Growth of Insulated Building Panels in a Full Scale Room Configuration; NOTE: The panels are permitted in a non-combustible construction, provided the building is sprinklered		
	NFPA 285	Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components		
	NFPA 259	Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components		
Strength	ASTM E72 Chamber Method	Panel load / span and deflection tables are available		
Thermal Transmission	ASTM C518	Thermal Performance at 75°		
		Thickness	K-Factor	R-Value
		2	0.1407	14.8
		3	0.1304	22.2
		4	0.1351	29.6
Air Infiltration	ASTM E283	0.003 CFM/ft ² of Panel Area at 6.24 psf		
Water Penetration	ASTM E331	No Water Penetration at 20.0 psf		
Fatigue	Subjected to 2 million alternate cycles of 20 PSF positive and negative wind loading	No metal / foam delamination or metal fatigue		
Humidity	Sample subjected to 100% relative humidity at 140°F for 1000 hours	No evidence of metal primer corrosion		
Autoclave	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 North America

DeLand, FL: 386-626-6789 Modesto, CA: 209-531-9091

Caledon, ON: 905-951-5600 Langley, BC: 604-607-1101

www.kingspanpanels.com

For the product offering in other markets please contact your local sales representative or visit www.kingspanpanels.com

Care has been taken to ensure that the contents of this publication are accurate, but Kingspan Limited and its subsidiary companies do not accept responsibility for errors or for information that is found to be misleading. Suggestions for, or description of, the end use or application of products or methods of working are for information only and Kingspan Limited and its subsidiaries accept no liability in respect thereof.

