

QuadCore® B Designwall 2000

Data Sheet

Architectural Insulated Wall Panel System

Architectural Insulated
Metal Panel Systems
North America



BENCHMARK™

QuadCore B Designwall 2000 Data Sheet

Architectural Insulated Wall Panel System

Product Specification

Insulation core:	QuadCore B Technology
Profile:	Exterior: Flat, flat with Granitstone® or striated Interior: Flat
Embossing:	Exterior: Stucco or non-embossed Interior: Stucco or non-embossed
Gauge:	Exterior: 22, 20 ga Interior: 24, 22, 20 ga
Width:	12" - 42" (1/8" increments) Note: < 24" require silicone wedge gasket
Thickness:	2", 2.5", 3", 4"
Length:	Embossed, Striated, GS - 30' (if wider than 40", max length darker colors 10', lighter colors 14') Smooth steel - 24' (if wider than 40", max length darker colors 10', lighter colors 14')
Standard reveal option:	1/16", 1/2", 1" - Standard 2", 3", 4", 5" 6" - Custom (extra charge) Note: Extended TE's required for anything greater than 1"
Orientation:	Vertical or horizontal (for detailed installation conditions, please contact us for more information.)
Post fabrication:	Longitudinal bend, transverse bend, trimless end, beveled end, full end wrap. (Manufacturing limitations apply. Please contact us for detailed information)
R-value:	Please see Thermal Transmission section on next page
Production method:	Structurally bonded

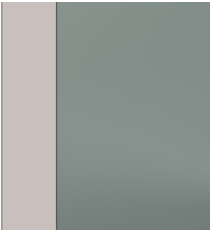
The ultimate in design flexibility, Designwall 2000 with QuadCore B allows for complete creative freedom. With horizontal and vertical application capability, the Designwall 2000 joint provides maximum thermal efficiency while creating a double barrier against air and water penetration. Custom widths and finishes make Designwall 2000 the perfect fit for any project.



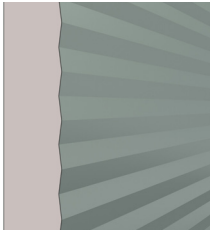
Stucco embossed



Non-embossed



Striated



Granitstone



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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: 90 or Less
	NFPA 259	Tested for potential heat of building materials
	NFPA 268	Passed: Standard Fire 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. Note: NFPA 285 is an assembly-specific test. Reference Kingspan's current standard details for approved configurations.
	NFPA 286	Passed: Standard Fire Test Method for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth
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

Test	Procedure	Results
Thermal Transmission	ASTM C518	Thermal Performance
		at 75°F mean temperature
		at 35°F mean temperature
		Thickness R-Value Thickness R-Value
		2.0" 12.8 2.0" 14.2
		2.5" 16.0 2.5" 17.8
		3.0" 19.2 3.0" 21.3
		4.0" 25.6 4.0" 28.4
Air Infiltration	ASTM E283	0.01 CFM/ft ² of Panel Area at 6.24 psf
Water	ASTM E331	No uncontrolled water penetration at 6.24 psf (2-hours) and 20 psf (15-minutes) differential pressure.
	AAMA 501.1	Dynamic water pressure testing – no sign of water leakage at 15 psf
Regional Approvals	City of Los Angeles	CCRR 1037
	Florida Product Approval	FL 46087.1
	Miami-Dade Listing	NOA 25-0801.02 (max. width = 36", max. reveal = 1/2")
	City of Houston	Registration #710A
	IAS AC473	Certificate MB-277-B
	SFM 12-7A-1 (Brushfire)	Intertek Spec ID: 58965
	Texas Department of Insurance (TDI)	NOA 25-0801.02 (max. width = 36", max. reveal = 1/2")

*Maximum thickness: 4", Minimum width: 12", Min. panel length: 8', Min. gauge: Exterior 22 ga, Interior 24 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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