

QuadCore® Designwall 4000

Data Sheet

Architectural Insulated Wall Panel System

Architectural Insulated
Metal Panel Systems
North America



BENCHMARK™

QuadCore Designwall 4000 Data Sheet

Architectural Insulated Wall Panel System

Product Specification

Insulation core:	QuadCore Technology
Profile:	Exterior: Flat Interior: Flat
Embossing:	Exterior: Stucco or non-embossed Interior: Stucco or non-embossed
Gauge:	Exterior: 22, 20 ga Interior: 24, 22 ga
Width:	24" - 42" (1/2" increments)
Thickness:	2", 2.5", 3", 4"
Length:	2' - 24'
Reveal option:	1/8", 1/2", 1", 2", 3"
Orientation:	Vertical or horizontal
Post fabrication:	Transverse bend, trimless end (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
Production method:	Continuous production line

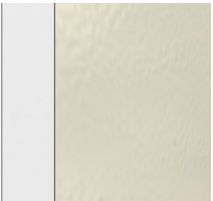


Designwall 4000 panel with QuadCore is the go-to choice for large scale projects. Available in either embossed or non-embossed, Designwall 4000 panel with QuadCore is uniquely equipped for finest design ingenuity. Double transverse bent corners can be factory formed and integrated to create column covers. Designwall 4000 panel with QuadCore is available in thicknesses up to 4" providing exceptional thermal performance and continuous foam-to-foam contact.

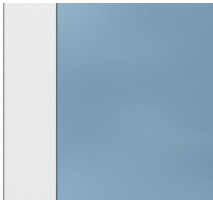
The panels can be installed horizontally or vertically depending on design parameters. For added architectural appeal, Designwall R Series panels can be used alongside Designwall 4000 panel with QuadCore to provide a bold, profiled look.



Stucco embossed



Non-embossed



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Test	Procedure	Results
Fire (US)	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
	NFPA 259	Tested for potential heat of building materials
	NFPA 268	Passed: Standard 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
	CAN/ULC-S102	Flame Spread: 20, Smoke Developed: 45 for panel with facings
	CAN/ULC S138	Passed with FR gaskets or butyl sealant: Fire growth of foamed plastic insulated building panels in a full scale room configuration
	CAN/ULC-S134	Passed with FR gaskets or butyl sealant: Standard method of test for fire of exterior wall assemblies
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 35°F mean temperature
		at 75°F mean temperature
		Thickness R-Value Thickness R-Value
		2.0" 18.0 2.0" 16.0
Air Infiltration	ASTM E283	0.01 CFM/ft ² air infiltration rate at 20 psf
Water	ASTM E331	No uncontrolled water penetration at 20 psf differential pressure. No water penetration at 6.24 psf pressure differential for a two (2) hour duration.
Regional Approvals	AAMA 501.1	Dynamic water pressure testing – no sign of water leakage at 15 psf
	City of Los Angeles	CCRR 1037; FB 3080 (max. width = 36")
	Florida Product Approval	FL 46087.1 (max. width = 36")
	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
	Texas Department of Insurance (TDI)	NOA 25-0801.02 (max. width = 36", max. reveal = 1/2")
	SFM 12-7A-1 (Brushfire)	Intertek Spec ID: 58965

*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 more information.



Contact Details

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