rapidwrapCI®
CONTINUOUSLY INSULATED FAÇADE SYSTEM

TECHNICAL DATA SHEET

RapidWrapCI® Wall Assembly - NFPA 285 Compliant

WALL SYSTEM OVERVIEW

Base Wall	
Steel Studs	Min. 20 gauge, 3 5/8" studs (*by others*)
Stud Spacing	Max. 24" o.c.
Approved Sheathing	1/2" Exterior Gypsum (*by others*) 5/8" Exterior Gypsum (*by others*)
Water-Resistive Barrier	Approved WRB per Arrowhead TER 2006-02
Continuous Insulation & Attachments	
Mineral Wool Insulation	Thermafiber® RainBarrier® CI HC
Polyiso Insulation	DuPont™ Thermax™ (*by others*)
Attachment Assembly	Arrowhead® Grid Installation Fastened with RapidWrapCI® Anchors at each stud, 24" o.c. (max.)
Exterior Cladding	
Approved Panel Systems	Arrowhead® FLEX Arrowhead® LEAN
Approved MCM Material	Vitrabond® FR
Color Matched Flashing	Edgeline® metal flashing material

RAPIDWRAPCI® LEED DATA

½ Pre-Consumer + Post-Consumer Recycled Content	
Insulation	Mineral Wool: *min. 70%*[1] Polyiso: *10%-29% (thickness dependant)*[2]
Attachment Assembly	Arrowhead®: *Up to 44.5%*
Metal Composite Material	Vitrabond®: *12.75%*

PANEL SIZES

Max. Recommended Panel Size	*60" x 96" (Larger sizes may require additional handling)*
Max. Panel Weight	Max. 5 psf for aluminum plate material and attachment assembly
Typical Stiffener Spacing	24" o.c. (*Note: Engineered per project*)

DrJ TECHNICAL EVALUATION REPORTS

TER 2006-02

Access the most recent Arrowhead Technical Evaluation report by DrJ Engineering by scanning the QR code.

TER 1809-01

Access the most recent Vitrabond Technical Evaluation report by DrJ Engineering by scanning the QR code.

AAMA 508 PRESSURE EQUALIZED RAIN SCREEN

Standard	Test	Test Standard	Result
ASTM E238	Air Leakage of Test Buck (without panel system installed)	0.11 cfm/ft² min. 0.13 cfm.ft² max.	PASS
ASTM E1233	Cyclic Static Air Pressure Differential (pressure cycling)	Cycle Time Lag 0.08 sec. max	PASS
ASTM E1233	Cyclic Static Air Pressure Differential (pressure cycling)	Cycle Pressure Difference 12.5 psf max.	PASS
ASTM E331	Static Water Penetration	3.20 ft²	PASS
ASTM 501.1	Dynamic Water Penetration	3.20 ft²	PASS
ASTM E330	Uniform Load Deflection and Uniform Load Structural	L/175 of Stiffener Length	PASS

AAMA 509 DRAINED AND BACK VENTILATED RAIN SCREEN

Standard	Test	FLEX Panels	LEAN Panels
ASTM E238	Air Leakage of Test Buck (without panel system installed)	V3	V1
ASTM E331	Static Water Penetration	W1	W1
ASTM 501.1	Dynamic Water Penetration		

FLORIDA PRODUCT APPROVAL *(Using Arrowhead® FLEX)*

Standard	Test	Test Results	Result
TAS 202-94	Uniform Static Air Pressure	(+100 / -150 psf)	PASS
TAS 201-94	Large Missile Impact Procedures	(+100 / -150 psf)	PASS
TAS 203-94	Cyclic Winds Pressure Loading	(+100 / -150 psf)	PASS

THERMAL PERFORMANCE BY INSULATION TYPE - "R" VALUE TABLE

Standard	Thickness	RainBarrier® CI HC(1)	Thermax™(2)
ASTM C518	1.5"	6.3	10.2
ASTM C518	2.0"	8.4	13
ASTM C518	2.5"	10.5	16
ASTM C518	3.0"	12.6	19
ASTM C518	3.5"	14.7	N/A
ASTM C518	4.0"	16.8	N/A

ASHRAE 90.1 COMPLIANCE

Standard	Description	Compliance
ASHRAE 90.1	Continuous Insulation that is uncompressed and continuous	Yes
ASHRAE 90.1	Without thermal bridges other than fasteners and service openings.	Yes

FIRE PERFORMANCE

Standard	Descriptions	Test	Result
ASTM E84	Flame Spread	<25	PASS
ASTM E84	Smoke Development	<450	PASS
NFPA 285	Fire Propagation Characteristics	PASS/FAIL	PASS

[1] *Owen's Corning® Thermafiber® RainBarrier® CI HC technical data can be found online at (https://www.owenscorning.com/en-us/insulation/products/rainbarrier-high-compressive#specifications-literature)*
[2] *DuPont™ Thermax™ technical data can be found online at (https://www.dupont.com/resource-center.html?BU=pbs)*

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