RapidWrapCI®

Technical Data Sheet

Wall Assembly - Non-Combustible

WALL SYSTEM OVERVIEW

Base Wall	Steel studs: minimum 20 gauge, 3-5/8" studs (by others), max. 24" o.c. spacing
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	Mineral wool: Thermafiber® RainBarrier® CI HC
Attachment Assembly	Arrowhead® Grid fastened with RapidWrapCI® Anchors at each stud, 24" o.c. max.
Exterior Cladding	Arrowhead® FLEX panels with 3mm (1/8") Vitraplate® solid aluminum plate
Flashing	Color-matched Edgeline® metal flashing

RAPIDWRAPCI LEED DATA

½ Pre-Consumer + Post-Consumer Recycled Content	
Insulation: Mineral Wool	Minimum 70% [1]
Attachment Assembly: Arrowhead®	Up to 44.5%
Aluminum Plate: Vitraplate®	Up to 32.5%
Vitraplate® Recycled Content by Source	
Pre-Consumer	Up to 5% recycled content
Post-Consumer	Up to 30% recycled content

PANEL SIZES

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

DrJ TECHNICAL EVALUATION REPORTS

TER 2006-02

Access the most recent **Arrowhead®** Technical Evaluation Report by DrJ Engineering by scanning the QR code or clicking the link below:

https://www.drjcertification.org/ter/2006-02

TER 2312-08

Access the most recent **Vitraplate®** Technical Evaluation Report by DrJ Engineering by scanning the QR code or clicking the link below:

https://www.drjcertification.org/ter/2312-08

AAMA 508 PRESSURE EQUALIZED ARROWHEAD RAIN SCREEN

Standard	Test	Test Standard	Result
ASTM E283	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. Cycle Pressure Difference 12.5 psf max.	PASS
ASTM E331	Static Water Penetration	3.20 ft²	PASS
AAMA 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 ARROWHEAD RAIN SCREEN

Standard	Test	Arrowhead FLEX Results
ASTM E283	Air Leakage	V3
ASTM E331	Static Water Penetration	W1
AAMA 501.1	Dynamic Water Penetration	W1

FLORIDA PRODUCT APPROVAL (USING ARROWHEAD® FLEX)

Standard	Test	Test Standard	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 – RAINBARRIER® CI HC ("R" VALUE)

Standard	Thickness	"R" Value
ASTM C518	1.5"	6.3
ASTM C518	2.0"	8.4
ASTM C518	2.5"	10.5
ASTM C518	3.0"	12.6
ASTM C518	3.5"	14.7
ASTM C518	4.0"	16.8

ASHRAE 90.1 COMPLIANCE

Standard	Description	Compliance
ASHRAE 90.1	Continuous insulation that is uncompressed and continuous	Yes
ASHRAE 90.1	No thermal bridges other than fasteners and service openings	Yes

FIRE PERFORMANCE

Standard	Descriptions	Test	Test Result
ASTM E136	Aluminum and RainBarrier® CI HC	ΔT < 86°F	Non-Combustible
ASTM E84	Flame Spread	<25	PASS
ASTM E84	Smoke Development	<450	PASS
NFPA 285	Non-combustible per ASTM E136; the wall assembly is reviewed under the applicable code		
ASTM E119	Use in fire-rated wall assemblies is outside the scope of TER 2312-08		

[1] Owens Corning® Thermafiber® RainBarrier® CI HC technical data is available online at owenscorning.com.

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