

# Hardie® Architectural Panel

## Submittal Form

**08**

Submitted to: .....

 Product: ☐ Fine Sand ☐ Mounded Sand ☐ Sea Grass

Project Name: .....

 Product Zone: ☐ HZ5® ☐ HZ10®

Submitted by: .....

 Product Width: ☐ 4ftx8ft ☐ 4ftx10ft ☐ 4ftx12ft

Date: .....

 Product Finish: ☐ Primed ☐ ColorPlus® Technology finish (Limited Availability)

# Hardie® Architectural Panel

## Specification Sheet

**08**

DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION

SECTION: 07 46 46 FIBER CEMENT SIDING

## HARDIE® ARCHITECTURAL PANEL

### Manufacturer

James Hardie Building Products Inc.

The products are manufactured at the following locations, with quality control inspections by Intertek:

- Reno, Nevada

### Compliance with the following codes

- 2006 through 2021 International Building Code (IBC)
- 2006 through 2021 International Residential Code (IRC)

For more information about other compliances and applicable uses, refer to the ESR-1844.

### Features

- Noncombustible
- Dimensionally Stable
- Resistant to damage caused by pests
- Weather Resistant-Engineered for Climate®
- Impact resistant
- Sustainable

### Use

Hardie® fiber cement panels are used as exterior wall covering. The product complies with IBC Section 1403.9 and IRC Section R703.10. The product may be used on exterior walls of buildings of Type I, II, III, IV, and V construction.

### Description

Hardie® Architectural Panel are single-faced, cellulose fiber-reinforced cement (fiber cement) product. Hardie® Architectural Panel comply with ASTM C1186, as Grade II, Type A; have a flame-spread index of 0 and a smoke-developed index of 5 when tested in accordance with ASTM E84; and are classified as noncombustible when tested in accordance with ASTM E136.

### Available Sizes

Product	Width (inches)	Length (feet)	Thickness (inches)
Hardie® Architectural Panel Fine Sand	48	8, 10, 12	5/16
Hardie® Architectural Panel Mounded Sand	48	8, 10, 12	5/16
Hardie® Architectural Panel Sea Grass	48	8, 10, 12	5/16

\* Product not available in ColorPlus® Technology finishes, primed only.

Weight: 2.49 lbs. per square foot

### Texture & Finish

Hardie® Architectural Panel comes with distinct textures and a variety of finishes. The product is available in Fine Sand, Mounded Sand, and Sea Grass textures. Finish options are primed for field paint, or factory finished with ColorPlus® Technology finishes.

Color availability varies by region.

### Engineered for Climate®

Hardie® Architectural Panel is engineered for performance in specific weather conditions by climate zones as identified by the following map.



Performance Properties

General Property		Test Method	Unit or Characteristic	Requirement	Result
PHYSICAL ATTRIBUTES	Dimensional Tolerances	ASTM C1185	Length	± 0.5% or ± 1/4 in	Pass
			Width	± 0.5% or ± 1/4 in	
			Thickness	± 0.04 in	
			Squareness	Δ in diagonals ≤ 1/32 in/ft of sheet length. Opposite sheet sides shall not vary in length by more than 1/32 in/ft	
			Edge Straightness	≤ 1/32 in/ft of length	
	Density, lb/ft³	ASTM C1185		As reported	83
	Water Absorption, % by mass	ASTM C1185		As reported	36
THERMAL	Water Tightness	ASTM C1185	Physical Observations	No drop formation	Pass
	Flexural Strength	ASTM C1185	Wet conditioned, psi	>1015 psi	Pass
			Equilibrium conditioned, psi	>1450 psi	
	Thermal Conductivity	ASTM C177	(BTU/(hr·ft²·F))/inch	As reported	2.07
	Actual Thermal Conductivity		(K <sub>eff</sub> )		6.62
	Thermal Resistance		R=1/ K <sub>eff</sub>		0.48
	Actual Thermal Resistance		(R)		0.15
DURABILITY	Warm Water Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Heat/Rain Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Freeze/Thaw Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
			Mass Loss, %	≤ 3.0%	
			Freeze/Thaw, % strength retention	≥ 80%	
FIRE CHARACTERISTICS	UV Accelerated Weathering Test	ASTM G23	Physical Observations	No cracking, checking, or crazing	Pass
	Surface Burning Characteristics	ASTM E84	Flame Spread Index (FSI)		0
			Smoke Developed Index (SDI)		≤ 5
			Fuel Contributed		0
			NFPA Class		A
			Uniform Building Code Class	As reported	1
			International Building Code® class		A
	Noncombustibility	ASTM E136	Noncombustible	Pass/fail	Pass
	Fire Resistance Rated Construction	ASTM E119	Fire Resistance Rating	1-hour	Note 1

Note 1: See Intertek Listing or ICC-ES ESR-1844 for rated assemblies

Installation

Install Hardie® Architectural Panel in accordance with:

- Hardie® Architectural Panel installation instructions
- ICC-ES ESR-1844
- Requirements of authorities having jurisdiction

Warranty

Hardie® Architectural Panel: 30-year, Non-Prorated, Limited Warranty  
ColorPlus® Technology: 15-year Limited Finish Warranty

Sustainable Design Contribution

- Regionally sourced content- vary by project location
- LEED Avoidance of certain chemicals or LBC Red List Compliance

Detailed product information for LEED projects, or other state or regional sustainability programs is available through James Hardie Technical Services.

Storage and Handling

Store flat and keep dry and covered prior to installation.

Technical Services

Contact James Hardie Technical Services online at JamesHardie.com, or by phone at (800) 426-4051

**IMPORTANT:** Failure to install and finish this product in accordance with applicable building codes and James Hardie written application instructions may affect system performance, violate local building codes, void the product-only warranty and lead to personal injury. **DESIGN ADVICE:** Any information or assistance provided by James Hardie in relation to specific projects must be approved by the relevant specialists engaged for the project eg. builder, architect or engineer. James Hardie will not be responsible in connection with any such information or assistance.