

# Hardie® Architectural Panels

## Submittal Form

08

Submitted to: .....

Project Name: .....

Submitted by: .....

Date: .....

- Product:**  Fine Sand  Mounded Sand  Fine Sand Multi-Groove  
 Sea Grass  Sculpted Clay
- Product Zone:**  HZ5®  HZ10®
- Product Width:**  4ftx8ft  4ftx10ft  4ftx12ft
- Product Finish:**  Primed  ColorPlus® Technology (Limited Availability)

# Hardie® Architectural Panels

## Specification Sheet

08

DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION

SECTION: 07 46 46 FIBER CEMENT SIDING

### HARDIE® ARCHITECTURAL PANELS

#### 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

- 2021, 2018, 2015, 2012, 2009 and 2006 International Building Code (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 International Residential Code (IRC)
- 2020 Florida Building Code (FBC)

#### Features

- Noncombustible
- Dimensionally Stable
- Resistant to damage caused by pests
- Machined face grooves\*
- Weather Resistant-Engineered for Climate®
- Impact resistant
- Sustainable
- Machined shiplap edges

\*Multi-Groove Panels only

#### Use

James Hardie fiber-cement panels are used as exterior wall covering. The product complies with IBC Section 1404.10 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 Panels are single-faced, cellulose fiber-reinforced cement (fiber-cement) product. Hardie Textured Panels 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 Panels	48	8, 10, 12	5/16

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

#### Texture & Finish

Hardie Architectural Panels comes in distinct textures and a variety of finishes. The product is available in Fine Sand, Mounded Sand, Sea Grass, & Sculpted Clay textures, where the Multi-Groove Panel is available only in Fine Sand texture. Finish options are primed for field paint, or factory finished with ColorPlus® Technology. Color availability varies by region.

#### Engineered for Climate®

Hardie Architectural Panels are 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
<b>PHYSICAL ATTRIBUTES</b>	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/ft <sup>3</sup>	ASTM C1185		As reported	83
Water Absorption, % by mass	ASTM C1185		As reported	36
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	
<b>THERMAL</b>	ASTM C177	Thermal Conductivity (BTU/(hr·ft <sup>2</sup> ·F))/inch		2.07
		Actual Thermal Conductivity (K <sub>eff</sub> )	As reported	6.62
		Thermal Resistance R=1/ K <sub>eff</sub>		0.48
		Actual Thermal Resistance (R)		0.15
<b>DURABILITY</b>	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
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		Mass Loss, %	≤ 3.0%	
	Freeze/Thaw Resistance		Freeze/Thaw, % strength retention	≥ 80%
UV Accelerated Weathering Test	ASTM G23	Physical Observations	No cracking, checking, or crazing	Pass
<b>FIRE CHARACTERISTICS</b>	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
Fire Resistance Rated Construction	ASTM E119	Fire Resistance Rating	1-hour	Note 1

Note 1: See Intertek Listing for rated assemblies

**Installation**

Install Hardie Architectural Panels in accordance with:

- Hardie Architectural Panels installation instructions
- ICC-ES ESR-1844
- Intertek Listed
- Requirements of authorities having jurisdiction

**Warranty**

Hardie Architectural Panels: 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



Product warranties, safety information and additional installation information are available at jameshardiepros.com

1 866 442 7343 | www.jameshardie.com

**IMPORTANT:** The guidance and instructions provided in this technical brief are valid for and applicable to James Hardie® products only. James Hardie Building Products Inc. makes no warranty or representation with respect to use of the information contained herein for any use other than with James Hardie® products. All national, state, and local building code requirements must be followed, and where they are more stringent than the James Hardie product installation requirements, state and local requirements will take precedence. This document is not intended and should not be used as a building code reference. Consult your local building code official for accurate interpretation of local building code.

**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.