

## 1. PRODUCT NAME

PermaClad

## 2. MANUFACTURER

Innovative Concrete Products, Inc  
PO Box 6252  
Spokane, WA 99217

www.InnovativeConcreteProducts.com

## 3. PRODUCT DESCRIPTION

**Basic Use:** Product is intended for exterior and interior non-structural lightweight veneer facing on metal, masonry or frame construction for architectural aesthetics.

- PermaClad panels can be used in new construction as an exterior or interior wall cladding.
- PermaClad panels can be used in remedial construction for remodeling and redecorating of existing walls.

**Limitations:** should not be assumed to add strength to load bearing capacity of wall.

### **Composition and Materials:**

Brick, Stucco, fluted rib, and wood of varying textures are used to form molds. A mix of Portland cement, glass fibers, and proprietary admixtures is placed in the mold. Infill material and inserts are incorporated into the mix before the product enters the proprietary curing process. After the curing process the product is pulled from the molds.

**Sizes:** Available in nominal 4' x 4' (1.2 m x 1.2 m) or 4' x 8' (1.2 m x 2.4 m) panels. Panels can be provided in multiple profiles with numerous accessories.

Types:

Brick	Module
Stone	3 profiles
Block	2 profiles
Stucco	4 profiles

**Accessories:** Brick and stucco corner medallions, laminated soldier courses.

## 4. TECHNICAL DATA

**Fire Hazard:** Test conducted in accordance with:

- ASTM E-84-94 "Surface Burning Characteristics of Building Materials."
- ASTM E-136 "Behavior of Materials in Vertical Tube Furnace at 750C."

Test Results available on request.

**Physical Properties:** See Typical Properties table.

**Weight:** Shipping weight of panels is 6-8 lbs. per sq. ft. (29 Kg/m<sup>2</sup> to 38Kg/m<sup>2</sup>)

## 5. INSTALLATION

PermaClad panels are lightweight and easy to handle, cut, and install. PermaClad panels can be provided with inserts for back fastening or clipping to the supporting structure. The panel can also be attached using structural silicone adhesives or through-fastened with self drilling sheet metal screws. PermaClad panels can be attached to the ChannelPanel Panelized Wall System, a light gauge steel stud framing erected as prefabricated units up to 8' x 32' (2.43 m x 9.75 m). ChannelPanel units can be welded or bolted into place.

## 6. AVAILABILITY AND COST

**Availability:** PermaClad panels are marketed throughout the United States through authorized representatives.

**Cost:** Prices per sheet or per square foot depend on the quantities purchased. Custom sizes and finishes can be provided. For use outside the United States contact Innovative Concrete Products Marketing Department. Quoted on a per job basis, panels can be priced in stock sheet sizes, cut to size, and/or prefabricated Contact local representative.

## TYPICAL PROPERTIES

*These values are not intended for use in preparing specifications.*

<i>Typical Range of PermaClad Properties:</i>	<i>As Supplied</i>	
Density	76.8 (pcf)	(1230 Kg/m <sup>3</sup> )
Ultimate Flexural Strength	2188 (psi)	(15 MPa)
Yield Flexural Strength	1933 (psi)	(13.3 MPa)
Ultimate Tensile Strength	630.3 (psi)	(4.4 MPa)
Compressive Strength (edgewise)	2187 (psi)	(15 MPa)
Shear Strength (interlaminar)	315 (psi)	(2.1 MPa)
Shear Strength (in-phase)	1195 (psi)	(8.2 MPa)
Coefficient of Thermal Expansion	2.46 <sup>4</sup> (in/in <sup>o</sup> F)	(1.36 x 10 mm/mm/ <sup>o</sup> C)
Thermal Conductivity	1.7 (Btu/in/hr/ft <sup>2</sup> / <sup>o</sup> F)	(0.25 W/m <sup>2</sup> / <sup>o</sup> C)
Thermal Conductance	2.7 (Btu/in/hr/ft <sup>2</sup> / <sup>o</sup> F)	(15 W/m <sup>2</sup> / <sup>o</sup> C)
Thermal Resistivity	0.59 (hr/ft <sup>2</sup> / <sup>o</sup> F)	(4.1 m <sup>2</sup> / <sup>o</sup> C/W)
Thermal Resistance	0.37 (hr/ft <sup>2</sup> / <sup>o</sup> F)	(0.065 m <sup>2</sup> / <sup>o</sup> C/W)

This unit has been updated to indicate references to both *MasterFormat*<sup>™</sup> 1995 Edition and *MASTERFORMAT*<sup>®</sup> 1988 Edition. The references to the number and titles in *MasterFormat* 1995 Edition are indicated above the references to the numbers and titles in *MASTERFORMAT* 1988 Edition.



## 7. WARRANTY

### **10 Year Limited Warranty:**

PermaClad panels are covered for a period of 10 years from the date of purchase when used on a structure which conforms to local building codes and when installed in accordance with manufacturer's instructions.

The warranty shall not apply if:

- PermaClad exterior wall panels are altered, modified, or repaired in any manner and to any extent by any person, firm or corporation other than Innovative Concrete Products.
- PermaClad exterior wall panels have not been installed in accordance with Innovative Concrete Products' instructions.
- PermaClad exterior wall panels have been abused or misused or stored improperly or used in a manner inconsistent with it's purpose and/or contrary to Innovative Concrete Products' instructions or subjected to abnormal use and exposure.

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