

Technical Data Sheet



CERACLAD Solid Core Panel and Corner Products

Solid Core Texture: Contemporary Smooth

Product Description

CERACLAD is a fiber cement panel rain screen system manufactured by KMEW Co., Ltd. All panel products meet or exceed the standards of ASTM 1186 and ICC-ES AC-90. Solid Core products are Type A, Grade II as defined by ASTM 1186.

ICC-ESR #1627

Panel and Corner Specifications

Panels		Profile
Property		Profile
Dimensions	W: 455mm ± 0.6mm L : 3030mm ±1.0mm T: 16mm ±0.5 mm	
Coverage	1.38 m ² (15 ft ²)	
Weight	60 lbs	

Horizontal Preformed Corner		Profile
Property		Profile
Dimensions	Reveal:91mm (outer) 75mm± 0.5mm (inner) L: 455mm ± 0.6mm T: 16mm ±0.5 mm	
Coverage	0.08 m ² (0.89 ft ²)	
Weight	3.3 lbs	

Vertical Preformed Corner		Profile
Property		Profile
Dimensions	Reveal:91mm (outer) 75mm± 0.5mm (inner) L: 3030mm ±1.0mm T: 16mm ±0.5 mm	
Coverage	0.55 m ² (5.9 ft ²)	
Weight	22.4 lbs	

Fire and Combustibility

CERACLAD has been tested per **ASTM E 84**, Standard Test Method for the Surface Burning Characteristics of Building Products. CERACLAD panel products are rated **Class A**, with a **Smoke Development Classification of 0**, **Flame Spread Classification of 0**.

CERACLAD is a **non-combustible** product in accordance **CAN/ULC-S114**, Standard Method of Test for Determination of Non-Combustibility in Building Materials

CERACLAD may be used as part of a **one-hour fire-resistance rated wall assembly** in accordance with testing per **ASTM E 119**. Please consult ESR-1627 for a description of 1 hr rated assemblies.

CERACLAD has met the conditions of **NFPA 268**, Test Method for Determining Ignitability of Exterior Wall Assemblies.

Physical Properties

Testing of CERACLAD solid core per ICC-ES AC 90: Acceptance Criteria for Fiber Cement Siding Used as Exterior Wall Siding and ASTM C 1186: Standard Specification for Flat Fiber Cement Sheets

Property	Test Result	Requirement	Pass/Fail
Dimensional Tolerances: Length, in Width, in Squareness, in Thickness, in	0.00 0.02 0.02 0.00	±0.25 ±0.13 ±0.19 ±0.05	Pass
Flexural Strength (longitudinal direction) Dry (psi) Wet (psi) Freeze/Thaw, % Strength retention Warm Water, % Strength retention	1479 1083 98 115	1450 1015 >80 No Requirement	Pass Pass Pass No Requirement
Density, lb/ft ³	67.7	No Requirement	No Requirement
Moisture Movement, % 30%-90% relative humidity (MX & XD Average)	0.14	No Requirement	No Requirement
Water Absorption, % by mass	39.0	No Requirement	No Requirement
Water Tightness	No drop formation	No drop formation	Pass
Warm Water Resistance	No apparent changes	No visible cracks or structural alterations	Pass
Heat/Rain Resistance	No apparent changes	No visible cracks or structural alterations	Pass

Transverse Loading

Consult ICC-ESR 1627 code compliance report for Allowable Transverse Loads (design pressure / ASD) with 3.0 safety factor applied.

Green Statistics

Minimum Recycled Content:	44.5%
Pre-Consumer:	30.3%
Post-Consumer:	14.2%

Thermal Properties	
R Value (Resistance)	0.50
U Value (Conductivity)	1.98

Warranty

50 Year Limited Warranty: The Product shall: not incur structural cracking, rot or delaminate under normal use and wear and shall resist damage caused by termites for a period of 50 years under normal use.

20 Year Limited Warranty: The Ceramic Product finish shall (A) retain its color and luster (meaning color fade shall not exceed color No. 1-2 and E= 9.6 in accordance with ISO 105-A02:1990, Test for color fastness- A02: Grey scale for assessing change in color) for color integrity, and shall not significantly (B) peel, (C) incur structural cracking, or (D) chip, for a period of 20 years under normal use.

15 Year Limited Warranty: The CREATIV™ Product finish shall not significantly (A) peel, (B) incur structural cracking, or (C) chip, for a period of 15 years under normal use.

* Please see full warranty for further details on warranty coverage, limitations and exclusions