Innovative Manufacturing in Architectural Ceramics

For decades architectural designs have involved embedding a facing material in precast concrete panels. Terra cotta can be used as this type of finishing material to provide a wide variety of options in both profile and color. A 30mm solid terra cotta veneer as well as hollow-cored profiles can be embedded in large precast units. A dovetail profile on the backside of the panel provides additional surface area for the concrete to adhere to the terra cotta, ensuring a high-strength bond between the two products.

Terra Cotta PreCast Benefits

- Speed of Installation
- Blast Resistance
- Design Flexibility

Profiles and Shapes

Terra Cotta PreCast panels are available in 2" height increments from 6"– 24". The maximum length for the panel is 60". If you are considering larger dimensions or custom profiles, please contact our sales team.

Performance Test & Description

ASTM E488
Standard Test Methods for Strength of Anchors in Concrete Elements

ASTM C666
Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing

ASTM C126
Standard Specification for Ceramic Glazed Structural Clay Facing Tile, Facing Brick and Solid Masonry Units

ASTM C67
Standard Test Method for Sampling and Testing Brick and Structural Clay Tiles

Technical Data for Boston Valley Terra Cotta TerraPreCast® Panels

Property/Characteristic	CRITERIA
Absorption	ASTM C67 | 7.5%
Modulus of Rupture	ASTM C67 | 1400 lb/in^2 or greater
Weight per Unit Area	ASTM C67 | 130-135 lbs/ft^3
Linear Coefficient of Thermal Expansion	3.5 x 10^{-4} percent (0.00035%)
Freeze and Thaw (of precast unit assembled)	ASTM C666 | 300 cycles passed
Efflorescence	ASTM C67 | No efflorescence
Chemical Resistance	ASTM C126 No Change in Color or Texture
Freeze and Thaw (of precast unit assembled)	ASTM E488 | 150 lbs/in^2 or greater
Compressive Strength	ASTM C67 | 6000 lbs/in^2 or greater

Boston Valley Terra Cotta

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