



CASTIA STONE SPECIFICATION DATA Simulated/Manufactured Stone

1. Product Name

Castia Stone

2. Manufacturer

Castia Stone, Inc.
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3. Product Description

Primary Use : Castia Stone cladding and Molding Materials are designed for the exterior of buildings as a lightweight manufactured stone veneer with a built in rainscreen system. All Castia Stone products are designed to replicated old world, European stone products. No special footings or foundations are required because each piece of Castia Stone is individually attached due to Castia's bracketing and fastening system. See Castia Stone's product catalog for individual shapes and sizes of cladding and molding.

Composition: All Castia Stone materials are made of lightweight aggregate materials, Portland cement and naturally occurring iron oxides for color that are integrated directly into the mix. The lightweight concrete mix is then poured into molds to create the look of natural stone products. Brackets are embedded into the concrete prior to the materials curing to create Castia's bracket rainscreen system. Material color is dependent on consumer choice.

Components:

1. Concrete Tile/Molding: See profiles for thickness. Color will vary depending on consumer choice.
2. Bracketing System: Minimum two brackets are embedded off-kilter in Castia tiles and moldings. Brackets are either 24 gage galvanized steel or Molded Glass filled Nylon (approx 0.100). Brackets vary in length depending on size of tiles and moldings.
3. Fastening: Stainless steel screws #6 x 1 or larger
4. Flashing: As required J-Channel metal for top and bottom applications prefabricated galvanized metal varying colors. Metal channel allows for ventilation.
5. Caulking: Tremco Dymonic ; Dow Corning CWS, CCS, 790, 791, 795

3. Product Description (Continued)

Castia Stone tile weighs approximately 7lbs per square foot.



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Size and thickness of product varies by material. Cladding materials range from 1/2" – 1 1/2" depending on the style chosen. The bracketing system adds another 1/2" to the material distance from the substrate. Moldings profiles vary depending on style. Please see the Castia Stone product catalog for individual profiles.

4. Technical Data/Specifications/References

Portland Cement:	ASTM C-150
Sand:	ASTM C-144
Water Reducer:	ASTM C-494
Air Entraining:	ASTM C-260
Pumice:	ASTM C-330, ASTM C-567
Iron Oxide:	ASTM C-979
Freeze/Thaw Testing	ASTM C-67
Absorption:	UBC Std. 15-5
Compressive Strength	ASTMC-39,C-192
Tensile Strength:	ASTM C-190
Flexural Strength:	ASTM C-348
Density:	ASTM C-567

5. Quality Assurance

Castia Stone materials are tested regularly for strength and durability. Testing is conducted by an independent agency to verify ASTM standards. Each piece of Castia Stone is inspected prior to shipment.

6. Delivery/Storage/Handling

Castia Stone materials are delivered in wax coated boxes supported by pallets and strapped closed. Forklift is required to unload stone on the jobsite. Tailgate unloading works in certain circumstances. If materials are out in severe weather elements or are not to be used right away the manufacture recommends that material and boxes be covered / protected by a water resistant cover.

Castia Stone materials should be inspected at the time of delivery to make sure that all materials have arrived in good condition and are appropriate for the job.

7. Installation

Complete installation guidelines are available from the manufacturer.

Building codes may vary from area to area and can be dependent on specific projects. It is recommended to read all installation guidelines, consult video (if available) and contact a Castia Service Technician if specific questions arise. In specific instances Castia can provide installations drawings to help lay out



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material for a specific job. Contact the Castia Stone Design Center if you have questions pertaining to installation or layout.

8. Warranty/Maintenance

Castia Stone offers a limited lifetime warranty on all of its products. This warranty applies to the product and is guaranteed to the original purchaser. It may be transferred one time in limited circumstances by authorized Castia Stone personnel only. Castia Stone does not cover labor costs to replace the stone.

Castia Stone is sealed with a water repellent, siloxane sealer prior to leaving the factory. These sealants may lose their effectiveness over time and may be compromised by chemicals and other solutions used on or around your structure. Castia does not apply Anti-Graffiti sealers. Consumers may contact the manufacturer to see which Anti-Graffiti sealers work best with the factory applied sealant. Efflorescence can occur with any concrete product, especially within the first 6 months of installation. If this occurs a one part vinegar to 4 parts water solution can be used to wipe off the white powdery residue and then rinse thoroughly. (Contact Castia Stone for complete details on efflorescence removal) Dirt and other residue can be cleaned with soap and water. Do not clean Castia Stone products with power pressure washers or wire brushes; this may harm or scratch the surface of the stone. Natural variation in stone color is expected due to naturally occurring iron oxides used in the manufacturing process and curing methods. Staining and discoloration can occur due to use of chemicals, pollutants and elements outside of Castia Stone's control.

9. Technical Services

Castia Stone has service technicians on staff to answer your technical and application questions.