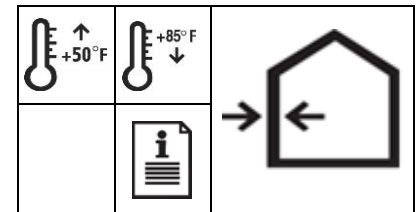


PRODUCT BULLETIN

StoCast Brick

Product Number: 81728 (00762)



PRODUCT DESCRIPTION

StoCast Brick are thin, lightweight bricks for the decoration and protection of facades. They offer limitless design possibilities with a multitude of colors, textures and size options. StoCast Brick are available in flat, corner and lintel shapes. Use in Sto proprietary wall systems and over prepared vertical above grade concrete, concrete masonry (CMU), and stucco walls, ceilings, and soffits.

FEATURES	BENEFITS
Wide variety of colors, textures and sizes	Design freedom
Lightweight	Significantly reduced dead load when compared to traditional masonry units.
Flexible	Achieve curved surfaces
Pre-fabricated	Consistent quality and aesthetics, speed of application
Easy to cut and install	Minimal dust, does not require highly skilled labor force, cost effective
Made with Acrylic Polymers	Durable, Freeze/Thaw and UV resistant, superior flexural strength; resists cracking
Organic mortar	Greatly reduces the risk of efflorescence associated with portland cement-based masonry mortars

Packaging: Cartons

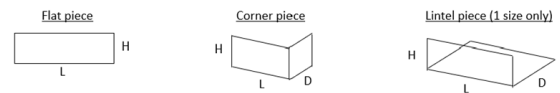
Sheen: Flat

Shelf Life: 12 months in original, unopened, properly stored packaging. See batch no. on carton. First number on carton is year of expiration. Second two numbers are week of expiration (e.g., batch no. 9450013223 expires the 45th week of 2019)

Storage: Store off the ground in a dry area. Do not store at temperatures less than 50°F (10°C) before application.

Shapes and Colors

StoCast Bricks are available in 3 different shapes - flats, outside corners and lintels. Custom sizes and colors are available (see colors at www.wstocorp.com).



Standard Flat Sizes

Modular: 2-1/4" x 7-5/8" (57 mm x 194 mm)
 King: 2-5/8" x 9-5/8" (67 mm x 244 mm)
 Queen: 2-3/4" x 7-5/8" (70 mm x 194 mm)
 Utility: 3-5/8" x 11-5/8" (92 mm x 295 mm)
 Estate: 3-5/8" x 9-5/8" (92 mm x 244 mm)
 Premier Plus: 3-1/8" x 10-1/8" (79 mm x 257 mm)
 Metric Norman: 2-1/4" x 11-1/2" (57 mm x 290 mm)

Custom sizes available

Standard Outside Corner Size

Short leg matches dimensionally with selected flat size

Standard Lintel Size (one size only)

3-5/8" x 3-5/8" x 11-5/8" (92 mm x 92 mm x 279 mm)

SURFACE PREPARATION

Sto Proprietary Wall Systems: StoTherm[®] ci, StoVentec[®], StoPowerwall[®], StoQuik[®] Silver, StoPanel[®], and StoLite[®] systems. Refer to applicable Sto Specification.

Concrete, concrete masonry (CMU), and portland cement stucco: must be constructed in conformance with applicable building code requirements. All surfaces must be structurally sound, clean, dry, and free of frost and surface contamination such as dust, dirt, salts, grease, oils, efflorescence, mold, algae, mildew, and any other contamination that may affect adhesion. Use appropriate repair methods for the substrate to repair pitting, spalls, cracks, peeling, blistering, delamination, weak surface conditions such as laitance, water damage, or other defects that may exist. Skim coat concrete, CMU, and stucco surfaces with Sto BTS Plus up to 1/8 inch (3mm) thick to level/fill the surface or use Sto Leveler and Skim Coat up to 1/4 inch (6mm) in one coat or 1/2 inch (13mm) in two coats. Verify bond to properly prepared surfaces as specified by design professional at 28-day age of the assembly.

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APPLICATION:

- Select StoCast Brick from different cartons so brick shades are intermingled as they are installed.
 - Plan the layout carefully, taking into account brick pattern, openings such as windows and doors, and alignment of horizontal mortar joints around the building walls.
 - Use snips or shears to cut bricks to size as needed
 - Curved Surfaces: bricks must be warm to bend them. If necessary, heat bricks and bend to desired curvature. Then install bricks in the mortar. Note: minimum radius for curved surfaces is 4-3/4" (120mm).
 - Always construct a mock-up under actual conditions of use to verify proper surface preparation, coverage, and aesthetics, for approval by the appropriate authority.
 - Apply only when substrate and ambient temperatures are between 50 to 85°F (5-30°C) over prepared surfaces. Do not apply over damp surfaces or during rain, hail, or snow events, or if rain, hail, or snow is imminent.
1. Establish layout lines for the pattern in use (e.g., running bond, stacked bond) and mark them on the walls.
 2. Place StoCast Brick units from top to bottom in accordance with the planned layout and work from one end to the other, downward in sequential rows.
 3. Apply StoBonding & Pointing Mortar vertically with a 1/4 x 1/4 x 1/4 inch (6x6x6mm) square notched trowel. Apply in a small area and immediately install StoCast Brick before a "skin" forms on the mortar.
 4. Slide and slightly twist the units into the freshly applied mortar while applying pressure to fully bed the units in the mortar and to ensure no gaps or cavities exist in the mortar. Align units visually while progressing down the wall.
 5. As soon as the units are held in place with mortar, work the joint areas with a small paint brush or specialized pointing tool to compact and smooth the mortar, and to create a joint profile that covers the edges and ends of the units.
 6. Remove excess mortar from the face of the units with a damp sponge while the mortar is still wet.
 7. After mortar is dry, use a suitable hand brush to clean the surface of the units if needed. Carefully use a utility knife to remove any dry mortar remnants on the surface.
 8. After mortar is completely dry, touch-up mortar joints if needed to seal edges or to sharpen aesthetics.
 9. If thicker joints are desired, wait 7 days, then point mortar joints with additional mortar, and tool to compact the mortar to a concave profile. Clean the surface as described previously.

Refer to *StoCast Brick Application Guide* for more information.

Clean up

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

Drying

Sto Bonding & Pointing Mortar dries within 24 hours under normal conditions (70°F [21°C], 50% RH). Drying time varies depending on temperature/humidity and surface conditions. Hot, dry conditions accelerate drying. Cool, damp conditions delay drying and may require extended periods of protection from rain and freezing. Protect from rain, freezing and continuous high humidity until completely dry.

Cleaning, Repair and Maintenance

Refer to *StoCast Brick Repair and Maintenance Guide* at www.stcorp.com

LIMITATIONS

- Minimum radius: 4-3/4 inches (120 mm)
- Maximum width of grout joints: 3/4 inch (19mm)
- Use only when surface and ambient temperatures are above 50 to 85°F (5-30°C) during application and drying period.
- Do not use on horizontal or below grade surfaces, projecting ledges, sills, or sloped surfaces, or where immersion in water may occur
- Do not use on roof or roof-like surfaces
- Select colors with Light Reflectance Value (LRV) greater than or equal to 20 when used over StoTherm ci Systems
- Not recommended to clean with abrasive or high-pressure wash methods. Use low pressure (up to 500 psi [3.45 MPa])

LIMITED WARRANTY

This product is subject to a written limited warranty which can be obtained free of charge from Sto Corp.

HEALTH & SAFETY

Precautionary Statement: Product is a manufactured article – not a fluid or particle. Under normal conditions of use it does not pose a physical hazard or health risk.

FIRST AID MEASURES: Eye Contact: flush with cool water, like any non-hazardous solid

Skin Contact: if skin is irritated from handling product, wash thoroughly with soap and water, and wear protective gloves. Seek medical attention if condition persists.

Inhalation: None expected

Ingestion: Seek medical attention if a considerable amount has been swallowed

Spills: Not applicable.

Disposal: Dispose of in accordance with local, state or federal regulations.

Warning: KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY.

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TECHNICAL DATA

REPORT (includes Sto Bonding & Pointing Mortar and StoCast Brick)	TEST METHOD	TEST CRITERIA	TEST RESULT*
Adhesion to Sto base coats	ASTM D1623	> 103 kPa (15 psi)	Pass
Water Vapor Permeance of Lamina	ASTM E96 Method A	Measure	69.18 ng/(Pa•s•m ²) (1.21 US Perms)
UV Resistance	ASTM G155	No deleterious effects	Pass
Surface Burning	ASTM E84	Flame Spread: ≤ 25 Smoke Developed: ≤ 450	Flame Spread: 0 Smoke Developed: 20
Radiant Heat Ignition ¹	NFPA 268	No ignition during the 20-minute test period	No ignition
Multistory Flame Spread ¹	NFPA 285	Complies with NFPA 285 Acceptance Criteria	Pass (qualifies for use on noncombustible construction)
Flame Propagation ²	CAN/ULC S134	Meet conditions of acceptance	Pass (qualifies for use on noncombustible construction)
Fire Resistance ¹	ASTM E119	Achieves hourly rating	Achieves 1 and 2-hour ratings as a component of StoTherm ci
Fire Resistance ²	CAN/ULC S101	Meet 15-minute exposure requirements	Deemed to meet 15-minute requirement
Building Code Compliance ¹	Class A Building Material: qualifies for use as an interior finish		
	<ul style="list-style-type: none"> Meets requirements for use on noncombustible construction and fire resistance-rated wall construction as a finish component² of: StoTherm® ci, StoVentec®, StoPowerwall®, StoQuik® Silver, StoPanel®, and StoLite®: <ul style="list-style-type: none"> StoVentec in the US: Refer to Intertek Design Listing No: Sto/CWP 30-0 StoVentec in Canada: Refer to Intertek Design Listing Nos: Sto/WDEIFS 25-01 and STO/WDEIFS 15-01 Suitable for use on other code compliant noncombustible substrates: concrete, concrete masonry, and portland cement stucco wall assemblies 		
<p>* Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests.</p> <p>1. Results achieved as part of a full wall assembly. Refer to applicable Sto specification for details.</p> <p>2. Complies as finish component based on rational analysis of fire test data.</p>			

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ATTENTION

This product is intended for use by qualified professional contractors, not consumers, as a component of a larger construction assembly as specified by a qualified design professional, general contractor or builder. It should be installed in accordance with those specifications and Sto's instructions. Sto Corp. disclaims all, and assumes no, liability for on-site inspections, for its products applied improperly, or by unqualified persons or entities, or as part of an improperly designed or constructed building, for the nonperformance of adjacent building components or assemblies, or for other construction activities beyond Sto's control. Improper use of this product or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to this product, and to the structure of the building or its components. **STO CORP. DISCLAIMS ALL WARRANTIES EXPRESSED OR IMPLIED EXCEPT FOR EXPLICIT LIMITED WRITTEN WARRANTIES ISSUED TO AND ACCEPTED BY BUILDING OWNERS IN ACCORDANCE WITH STO'S WARRANTY PROGRAMS WHICH ARE SUBJECT TO CHANGE FROM TIME TO TIME.** For the fullest, most current information on proper application, clean-up, mixing and other specifications and warranties, cautions and disclaimers, please refer to the Sto Canada Ltd. website, www.stocanada.com