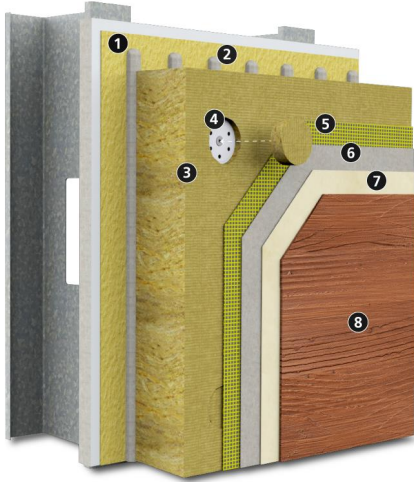


StoTherm® ci Mineral

Energy efficient, fire resistant, decorative and protective wall cladding



Substrate (by others): Glass mat gypsum sheathing in compliance with ASTM C1177, code compliant OSB or plywood sheathing, concrete or concrete masonry, existing structurally sound, uncoated brick or other masonry wall construction.

1)	Air and Water-Resistive Barrier: Sto Gold Coat®
2)	Adhesive: Sto BTS Plus
3)	Insulation - choose either: <ul style="list-style-type: none"> Rockwool Frontrock® MD (Monolithic Density) Rockwool Frontrock® DD (Dual Density)
4)	Attachment System: Sto Thermo Dowel with Sto Thermo Cap Wool
5)	Reinforcing Mesh: Sto Mesh (embedded in Sto BTS Plus)
6)	Base Coat: Sto BTS Plus – minimum 2 coats
7)	Primer: StoPrime Sand or Smooth (optional)
8)	Finish - choose among: <ul style="list-style-type: none"> Sto Textured Finishes StoCast Finish: Wood or Brick Sto Signature Series or Sto Specialty Finishes

System Accessory: StoSeal STPE Sealant for use as an exterior weather seal around wall penetrations, at dynamic joints in wall construction, and as an interior air seal for air barrier continuity.

System Description

StoTherm ci Mineral is a decorative and protective exterior wall system that combines superior weather resistance with excellent thermal performance and fire resistance. It incorporates noncombustible continuous exterior insulation and a continuous air and water-resistive barrier with Sto's high performance finishes to produce an advanced high performance wall cladding assembly.

Uses

StoTherm ci Mineral can be used in residential or commercial wall construction.

Features

Specially designed thermal dowel attachment system¹

Fully integrated high density mineral wool core

Fully integrated seamless air and water-resistive barrier

Virtually unlimited finish color selection in multiple textures

Benefits

Minimizes thermal conductivity at fastener locations

Continuous exterior insulation resists fire and temperatures in excess of 2000°F (1093°C)

Fully compatible air, water, and vapor control layer from a single source

Color and texture design freedom

Properties

Weight (not including backup wall – sheathing, studs, etc.)

< 6 lb/ft² (29.3 kg/m²)

Insulation thickness

- MD (Monolithic Density) 2, 2.5, 3 and 4 inches (51, 64, 76 and 102mm)
- DD (Dual Density) 2.5, 3, 3.5 and 4 inches (64, 76, 89 and 102mm)

R value per inch (RSI-value)

4.0 ft²•h•°F / Btu
(0.70 m²•K / W)

Noncombustible, fire-resistant insulation

Meets requirements for use on all types of construction

Warranty

Ten years

1. Fastening pattern differs with design wind pressure requirements. Surface mount fasteners required with 2 inch (51 mm) and 2.5 (64mm) thick insulation. 3 inch (76 mm) and thicker insulation typically use countersunk fasteners for maximum thermal performance.

System Bulletin

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Maintenance

Requires periodic cleaning to maintain appearance, repair of cracks and impact damage if they occur, recoating to enhance appearance of weathered finish. Sealants and other façade components must be maintained to prevent water infiltration into or behind the system.

Precautions and Limitations

Insulation board thickness: MD (Monolithic Density): 2, 2.5, 3, and 4-in (51,64,76, & 102mm). DD (Dual Density): 2.5, 3, 3.5, 4-in (64,76,89, & 102mm)

Keep insulation board dry during construction and while in service. R-value, adhesion and other properties will be compromised if insulation stays wet. Protect with tenting, base coat, or other protection to maintain insulation board integrity and properties.

Wind load resistance: design structural back-up wall assembly to resist wind loads in accordance with applicable building code and for maximum allowable deflection of L/240.

Negative¹ Wind Load Resistance [lb/ft² (kPa)] of Steel Stud Wall Assembly² with StoTherm ci Mineral

Insulation Board Thickness and Type ^{2,3}	6 Fasteners per Board	9 Fasteners per Board
2-in (51mm) MD Surface Mount Fastener	54 (2.58)	77 (3.68)
2.5-in (64mm) MD & DD Surface Mount Fastener	54 (2.58)	77 (3.68)
3-in (76mm) MD & DD Countersunk Fastener	54 (2.58)	77 (3.68)
3.5-in (89mm) DD Surface Mount Fastener	54 (2.58)	77 (3.68)
4-in (102mm) MD Countersunk Fastener	95 (4.54)	126 (6.03)
4-in (102mm) DD Surface Mount Fastener ⁴	81 (3.87)	107 (5.12)

1. Positive loads of tested MD assembly exceeded 250 lb/ft² (11.9 kPa)
2. Minimum 18 Ga, 3-⁵/₈-in (92mm) Max 16-in (406mm) oc Stud Spacing with ⁵/₈-in (16mm) ASTM C1177 compliant glass mat gypsum sheathing
3. Testing limited to 1-¹/₂-in (38mm) thickness & 4-in (102mm) thickness. 1-¹/₂-in (38mm) test results applied to thicker insulation up to 3.5-in (89mm). DD loads less than or equal to surface mount MD tested values (due to lower density of DD inner layer)
4. 15% reduction applied to 4-in MD loads due to lower density of DD inner layer

Negative¹ Wind Load Resistance [lb/ft² (kPa)] of Wood Stud Wall Assembly² with StoTherm ci Mineral

Insulation Board Thickness and Type ²	8 Fasteners per Board
MD: 2-in, 2.5-in (51, 64mm) Surface Mount Fastener, 3-in, 4-in (76, 102mm) countersunk fastener	70 (3.35)
DD: 2.5-in, 3-in, 3.5-in, 4-in (64, 76, 89, and 102mm) surface mount fastener ³	59 (2.82)

1. Positive loads of tested MD assembly exceeded 260 lb/ft² (12.4 kPa)
2. Minimum 2x6 wood studs at Max 16-in (406mm) oc with ⁷/₁₆-in (11mm) OSB attached at 12-in (305mm) oc to intermediate studs and 6-in (152mm) oc to end studs
3. 15% reduction applied to 4-in (102mm) MD loads due to lower density of DD inner layer

Impact resistance: heavy reinforcing mesh layer (11 oz/yd² [373 g/m²]) or other design adjustments recommended for ground floors and other areas at risk of impacts or abuse.

Not for use on horizontal or low slope surfaces, below grade, roofs or roof-like surfaces, or in areas of water immersion, pooling or ponding water. For use on vertical above grade walls only.

Aesthetics: slight surface irregularities may be apparent in the finished wall surface for brief periods during the day in critical light. Smooth or fine texture finishes are discouraged. Minimum 1.5 mm (Medium) or heavier textures are preferred to hide surface imperfections. On some occasions face mount dowels may "read" through the finished wall surface as the building ages. This can be remedied by recoating (or prevented by using countersunk dowels).

Air Barrier, insulation board, and basecoat materials are not intended for permanent weather exposure. Refer to specific component product bulletins and packaging for other limitations that may apply involving use, handling and storage of component materials.



Building with conscience.

System Bulletin

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Sustainable Design

Regulatory Compliance and Standards Testing

ASTM C612	Insulation conforms to applicable standard for board thermal insulation
NFPA 220	Noncombustible insulation as defined by NFPA 220
ASTM E84	Insulations is Class A building material with 0 flame spread, ≤ 15 smoke development
IBC, IRC, ASTM E 2570	Sto Gold Coat meets requirements as an air barrier and WRB (Water-resistive Barrier). Refer to ICC ESR-1233
IBC, IRC, ASTM E2568	System meets durability requirements for EIFS. Refer to ICC ESR-5027
IBC, IRC, ASTM E2273	System meets minimum 90% drainage efficiency requirement. Refer to ICC ESR-5027
IECC	System meets requirements for continuous insulation and ci R-value requirements for above grade walls of 2021 and 2024 IECC and contributes to U-value for above grade walls when figuring compliance on the basis of U-factor
IECC, ASTM E2178	Air barrier component complies with 2021 and 2024 IECC as an air barrier material and complies with air barrier assembly requirements when used with StoGuard® detail components
NFPA 285	System complies with requirements for use on all Types of construction without height limitation (other than height restrictions governed by wind pressure limits of the system)
NFPA 268	System does not ignite with exposure to radiant heat limits prescribed by the IBC and complies with requirements for use on all Types of construction without height or setback limitations (other than height restrictions governed by wind pressure limits of the system)
ASTM E119	Maintains hourly fire resistance rating of concrete, concrete masonry, and non-load bearing steel frame wall assemblies

For complete information refer to www.stocorp.com

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Attention

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