



Building with conscience.

StoTherm® ci Mineral

Decorative exterior continuous insulation wall system engineered around mineral wool

Facades



Developed by Sto Corp. in collaboration with Owens Corning, the StoTherm® ci Mineral system is fully engineered and tested decorative and protective exterior wall cladding designed around the performance and advantages of mineral wool.





A fully engineered facade system that incorporates the unique advantages of mineral wool

Unlike other claddings such as fiber cement, metal or vinyl panels, or other EIFS manufactures, which mostly focus on a product approach, Sto offers fully engineered facade systems from the sheathing on out. All the control layers: air/vapor/water, thermal, durability and water-shedding are handled by one source (Sto) ensuring optimum compatibility and continuity of the wall system.

Enhanced fire protection.

All StoTherm ci systems are suitable for use on noncombustible construction based on testing in accordance with CAN/ULC S134. But the StoTherm ci Mineral system is exempt from CAN/ULC S134 and NBC Article 3.2.3.8 testing. The mineral wool insulation that's at the heart of the system can withstand temperatures of 2000° F while still resisting fire.

The system has also been successfully tested in accordance with CAN/ULC S101 and maintains hourly fire-resistance rating of concrete, concrete masonry, and non-load bearing steel frame wall assemblies.

Advanced acoustic dampening. For a quieter environment.

Noise from traffic, construction and the commotion of urban areas can disturb any number of activities – sleeping, healing and everyday life. That's why it is so important to diminish transmission of sound through walls, windows, doors and other exterior surfaces.

Features	Benefits
Fully integrated high density mineral wool core	Continuous exterior thermal control layer that resists fire and temperatures in excess of 2000° F
Specially designed dowel attachment system	Limits thermal conductivity to the exterior
Fully integrated seamless air and moisture barrier	Compatibility and continuity of the air, vapor and water control layer
Virtually unlimited finish colour selection and multiple textures	Colour and texture design freedom

Acoustic Control

OITC* Ratings of Wall Assemblies

Base Wall Assembly

43

Base wall assembly:
6 inch (152mm) metal studs with R-19 unfaced batt insulation, 5/8 (16mm) gypsum wallboard interior, 5/8 inch (16 mm) glass-mat gypsum sheathing exterior

StoTherm ci Mineral

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Base wall assembly plus:
StoTherm ci Mineral with 4 inch (102mm) insulation





Great thermal performance. For occupant comfort.

Because it has an external mineral wool insulation layer, the StoTherm ci Mineral system has outstanding thermal resistance characteristics. Four-inch-thick mineral wool, for example, has a R value of 16. That means warmer interiors, reduced energy consumption, and lower energy costs as compared to between-the-stud insulation.

Every element in the StoTherm ci Mineral system has been engineered to fully capitalize on the unique characteristics of mineral wool such as non-combustibility and high water vapor permeability. Developed in partnership with Owens Corning, the Owens Corning Thermafiber® CI-C SC18 mineral wool insulation board has been specially designed for the StoTherm ci system; it is more rigid than traditional mineral wool boards with tight dimensional tolerances for faster application with less rework and with the ability to cut aesthetic reveals.

Sto Thermo Dowels are an innovative dowel fastening system also engineered specifically for StoTherm ci Mineral. They are designed for use with mineral wool, and minimize thermal bridging with a recessed fastener head and a EPS plug, or by countersinking the fastener within the depth of the mineral wool and covering it with a mineral wool cap. The fasteners also achieve the wind load resistance of the system.

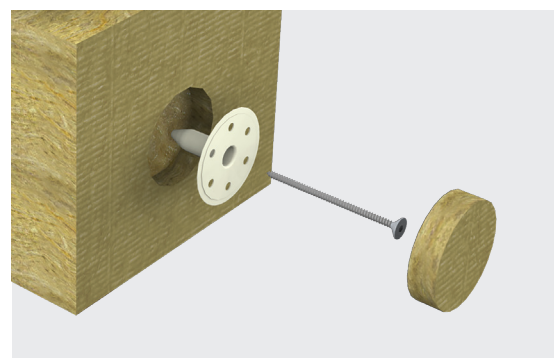
With a specifically engineered mineral wool board, and a unique dowel fastening system, StoTherm ci Mineral is a comprehensively designed system engineered around mineral wool that includes all the building envelope's control layers.

More colour choices. For greater design flexibility.

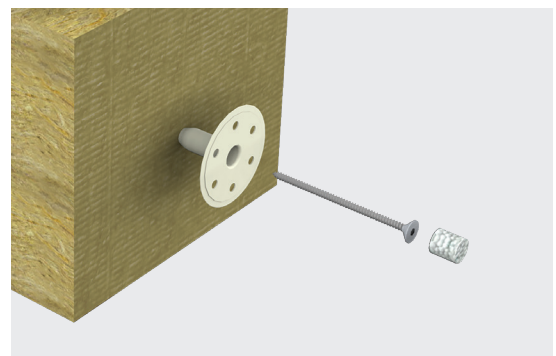
Because mineral wool can handle much higher internal temperatures than foam plastic insulations, there are no limitations on the Light Reflectance Values (LRVs) of exterior surfaces. That means you can choose from a wider range of colours and shades for every exterior, giving you more design flexibility.

A proven wall system. Meets or exceeds industry standards (ASTM E2486) for impact resistance.

The base coats and meshes available with the StoTherm ci Mineral system give you a wide range of options for impact resistance. So you can choose the level of exterior protection that's right for your project.



Countersunk Sto Thermo Dowel with Mineral wool cap.



Surface mounted Sto Thermo Dowel with EPS plug.





A history of turning inspiration into reality.

Inspiration favors the open mind. With Sto, your creative exploration can take you anywhere. Our proven products give you unmatched freedom and the ability to achieve your vision in any colour, any form, any texture, any material.

Meaning that the StoTherm ci Mineral fully engineered wall system delivers not only performance and sustainability but also greater design flexibility. Utilizing the unique qualities of mineral wool offers virtually unlimited finish colour and textures options. In other words, performance or sustainability will not be impacted by your aesthetic decisions. Follow your inspiration, and Sto has the materials and engineered walls system to make it a reality.

Creativity Begins. **Sto Finishes.**®



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