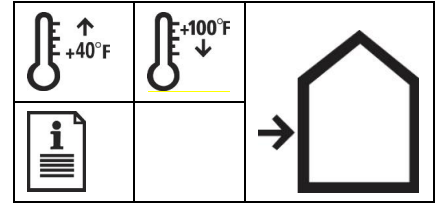


PRODUCT BULLETIN

Sto Lamella

Product Number: 81882



PRODUCT DESCRIPTION

Sto Lamella is a noncombustible mineral wool insulation board that functions as fireblocking in StoTherm® ci, StoTherm® ci GPS, StoPowerwall® ci, StoVentec® Rainscreen, and other exterior wall assemblies.

Sto Lamella complies with:

- ASTM C612, , *Standard Specification for Mineral Fiber Block and Board Thermal Insulation*, Type IVA
- 2022 NYC BC fireblocking material requirements

FEATURES	BENEFITS
Noncombustible	Resists fire and flame spread
Compatible with other insulation boards – EPS, GPS	Joins seamlessly with Sto EPS and Sto GPS boards for continuity of insulation and facade finish without joints or seams
Available in multiple thicknesses	Satisfies most R-value and dimensional requirements
Precision-cut and raspable	Facilitates installation and improves aesthetics
Fully recyclable after use	Can contribute to LEED and other environmental certifications. Red List Approved.
High tensile bond strength	Eliminates fasteners on most projects, no thermal bridging
Water vapor permeable	Aids in drying incidental water in walls

Packaging: Shrinkwrapped on pallets.

Shelf Life: Two years in original, unopened, properly stored packaging.

Storage: Store inside off the ground on pallets. Keep dry and away from direct sun exposure. If stored outside, cover with tarps and ventilate to prevent water infiltration and extended exposure to sun. Store on a solid, flat surface at least 4 inches (102mm) above dry ground. Protect from mechanical damage.

SIZES AND R-VALUE

4-in x 48-in x Thickness:

Sto Article No.	Thickness (in)	Pieces per Pallet	Lineal ft per Pallet	R-value* ft ² ·h·°F/Btu
81882-700	2.0	288	1152	6.4
81882-701	3.0	192	768	9.6
81882-703	3.5	156	624	11.2
81882-705	4.0	144	576	12.8
81882-707	4.5	120	480	14.4
81882-709	5.0	108	432	16
81882-711	5.5	96	384	17.6
81882-713	6.0	96	384	19.2
81882-715	6.5	84	336	20.8
81882-717	7.0	72	288	22.4
81882-719	7.5	72	288	24
81882-721	8.0	72	288	25.6
81882-723	8.5	60	240	27.2
81882-725	9.0	60	240	28.8
81882-727	9.5	60	240	30.4
81882-729	10.0	48	192	32
81882-731	10.5	48	192	33.6
81882-733	11.0	48	192	35.2
81882-735	11.5	48	192	36.8

*R-value at 75° F (23.9° C) mean temperature. Per FTC regulation 16 CFR § 460.11, R-values are rounded to the nearest tenth and R-values of 10 or more may be rounded to the nearest whole number.

SUBSTRATES

Sto Lamella is suitable for use over properly prepared vertical above grade wall substrates:

- Concrete
- Concrete masonry
- Glass mat gypsum sheathing in compliance with ASTM C1177
- Exterior or Exposure 1 wood-based sheathing coated with StoGuard® Air & Water-Resistive Barrier (AWRB)
- Cementitious sheathing in compliance with ASTM C1325

Sto Lamella may also be applied over each of these substrates coated with any of the StoGuard® Air & Water-Resistive Barriers (Sto Gold Coat®, Sto AirSeal®, StoGuard® VaporSeal®). Wood-based sheathing requires the use of StoGuard AWRB for compatibility with Sto adhesives.

PRODUCT BULLETIN

Sto Lamella

Product Number: 81882

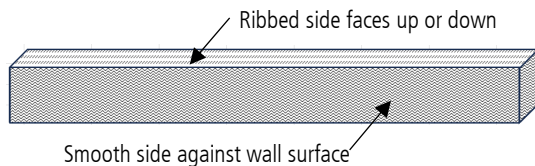
SURFACE PREPARATION

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, or any other condition 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.

APPLICATION

Locate fireblocking on exterior walls as required by the applicable building code. Refer to architectural and shop drawings.

Apply only to properly prepared frost-free surfaces. Install the smooth side of the fireblocking (the side without ribs) on the wall surface.



Install Sto Lamella fireblocking with a stainless steel trowel by applying a full bed of Sto BTS Plus adhesive to the smooth side.

- Flat trowel application: Use the trowel to work the adhesive into the entire back surface of the lamella. After working the adhesive into the surface, apply additional adhesive to a minimum 1/8-inch (3mm) thick with the trowel and immediately place boards before the adhesive "skins."
- Notched trowel application: Use a 1/4" x 3/8" x 1/4" (6mm x 10mm x 6mm) square-notched trowel to apply the adhesive to the entire back surface of the lamella, then spread the adhesive with the flat side of the trowel and work it into the surface. Flatten the notched trowel application to achieve a minimum 1/8-inch (3mm) bed of adhesive and immediately place boards before the adhesive "skins."

Apply firm uniform pressure by hand across the board surface to ensure no voids exist behind the fireblocking.

Sto Lamellas can be lightly rasped with a standard EIFS 12 grit paper rasping tool to achieve a level plane with surrounding foam insulation boards.

Note: temporary support may be required for the first course of fireblocking or where fireblocking spans across openings until the adhesive dries. Temporary support can be provided with mechanical fasteners and dowels or wood blocking, then removed.

Refer to Sto Design Guide and Detail Booklets at www.stocorp.com for additional information:

- No. 52s.xx FB-StoTherm® ci with Fireblocking
- No. 58s.xx FB-StoTherm® ci GPS with Fireblocking
- No. 63s.xx FB-StoPowerwall® ci with Fireblocking
- 90M.xx-Sto Ventec® for Masonry Veneer Facades
- 90G.xx-StoVentec® Glass
- 90R.xx-StoVentec® Render

LIMITATIONS

- Protect from prolonged UV exposure.
- Keep Sto Lamellas dry during construction and while in service. R-value, adhesion and other properties can be compromised if insulation stays wet. Protect with tenting, base coat, or tarps (with ventilation) if necessary during construction.
- Not intended to span across movement joints. Terminate Sto Lamellas at movement joints.
- 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.

LIMITED WARRANTY

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

HEALTH & SAFETY

Health Precautions: Inhalation or eye exposure to fibers or dust from this product may cause temporary irritation. Skin exposure to the product may cause temporary itching. If heated above 150°F (65.6°C) binder decomposition products can occur, which, in high concentrations can irritate the eyes and respiratory system. Never give anything by mouth to an unconscious person. If you do not feel well, seek medical advice (show the label where possible).

Safety Precautions: Protective lightweight cloth or leather gloves, lightweight long sleeved shirt and long pants are recommended to reduce skin contact or irritation. Do not tape sleeves or pants at wrists or ankles.

In poorly ventilated areas when dusty conditions exist and/or dust levels exceed applicable exposure limits, wear a NIOSH certified dust respirator with an efficiency rating of N95 or higher. In confined spaces and when cutting or rasping this product, or performing any other task that generates dust wear a NIOSH certified dust respirator with an efficiency rating of N95 or higher. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection. Use appropriate respirators if burning this product.

PRODUCT BULLETIN

Sto Lamella

Product Number: 81882

HEALTH & SAFETY (continued)

Wear safety glasses or safety goggles with side shields to prevent contact. **If adverse reaction or discomfort continue from any of the above exposures, seek medical advice.**

First Aid

INHALATION: Remove the affected person to fresh air. Drink water, and blow nose, to clear dust and fibers from throat and nose. If irritation persists, consult a physician.

SKIN CONTACT: Do not rub or scratch. Rinse under running water prior to washing with mild soap and running water. Use a wash cloth to help remove fibers. Remove and launder contaminated clothing before reuse. If irritation persists, consult a physician.

EYE CONTACT: Flush eyes immediately with running water for at least 15 minutes lifting the upper and lower eyelids occasionally. Do not rub the eyes. Consult a physician if irritation persists.

INGESTION: Rinse mouth immediately with plenty of water and drink plenty of water. Do not induce vomiting unless directed to do so by a physician.

FIRE: Move to fresh air. Administer oxygen and seek medical attention.

HYGIENE: Wash hands immediately after use. Remove contaminated clothing and equipment before entering eating areas. Wash clothing before re-use

Fire Hazard

None. Noncombustible in accordance with ASTM E136. Non-explosive. Suitable extinguishing media: water, foam, carbon dioxide, dry powder.

Spills

Keep spills away from drains, surface, and ground water and do not allow to enter waterways or ponds. Avoid generating airborne dusts and fibers during cleanup. Use a vacuum cleaner or dampen with water spray prior to sweeping up. Air Release: This material will settle out of air. If concentrated on land, it can then be scooped up for recycling or disposal as a non-hazardous waste material in accordance with applicable regulations.

Disposal

Place waste in containers suitable for disposal. Recycle or dispose in a licensed facility in accordance with local, regional, state, national, territorial, provincial, and international regulations. Do not discharge into waterways or sewer systems.

Warning

KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Safety Data Sheet (SDS) for further health and safety information. Safety Data Sheet (SDS) is available at www.stocorp.com.

TECHNICAL DATA

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT
Nocombustibility	ASTM E136	Non-combustible behavior at 1382°F (750°C)	Noncombustible
Surface Burning	ASTM E84	Flame Spread: ≤ 25 Smoke Developed: ≤ 75	Flame Spread: 0 Smoke Developed: 15
R-value per inch (25mm) at 75° F (23.9°C) mean temperature	ASTM C518 / C177	Report Results	3.2 ft ² ·h·°F/Btu (0.176 m ² ·K/W)
Density	ASTM C303	Report Results	8.5 lbs/cu ft (136 kg/cu m)

Building Code Standards and Compliance

- Complies with ASTM C612, Type IVA
- Meets continuous insulation requirements as a component of StoTherm ci, StoTherm ci GPS, StoPowerwall ci, and StoVentec Rainscreen wall systems
- Complies with acceptance criteria of NFPA 285 when used as the fireblocking component in StoTherm ci, StoTherm ci GPS, StoPowerwall ci, and Sto Ventec Rainscreen wall systems
- Meets requirements of 2022 NYC BC for use on Combustible and Noncombustible Construction as the fireblocking component in StoTherm ci, StoTherm ci GPS, StoPowerwall ci, and StoVentec Rainscreen wall systems

<p>Sto Corp. 3800 Camp Creek Parkway Building 1400, Suite 120 Atlanta, GA 30331 Tel: 404-346-3666 Toll Free: 1-800-221-2397 Fax: 404 346-3119 www.stocorp.com</p>	<p>Revision No: 000 Date: 08/2024</p>	<p style="text-align: center;">ATTENTION</p> <p>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. <u>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.</u> 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 Corp. website, www.stocorp.com</p>
--	---	---