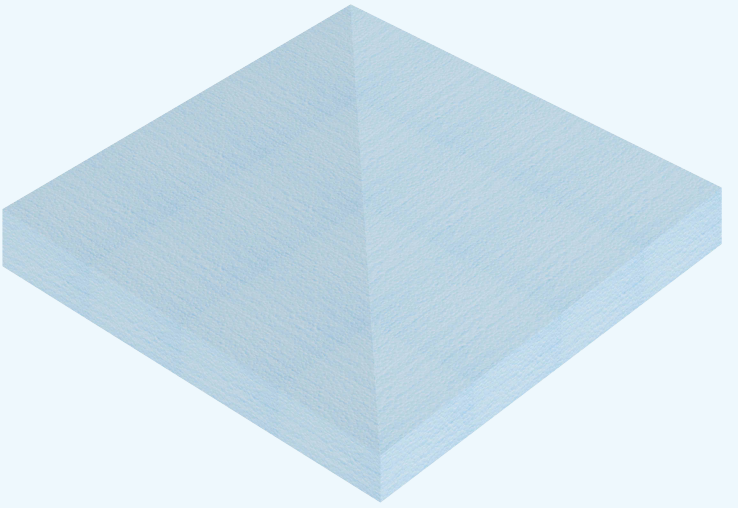
SR.SLOPE™

EXPANDED POLYSTYRENE RIGID INSULATION FOR FLAT ROOFS

The SR.Slope™ panels are custom manufactured by Styro Rail Inc according to dimensions and slope specifications. They are composed of type 1, 2 or 3 expanded polystyrene [EPS] rigid insulation in order to meet the various requirements of professionals.



CHARACTERISTICS

- ENSURES A POSITIVE SLOPE TO DRAINS WHILE RETAINING THE STRUCTURAL AND ECONOMIC ADVANTAGES PROVIDED BY A FLAT ROOF DECK
- APPLIES TO FLAT ROOFS AS WELL AS STEEL DECKS
- IDEAL FOR FLAT ROOF RENOVATIONS
- PERMANENT R-VALUE - DOES NOT DIMINISH WITH TIME
- CONTINUOUS ENVELOP - ELIMINATES THERMAL BRIDGES
- VARIOUS THICKNESS AND SLOPES TO COMPLY WITH SPECIFICATIONS
- MEETS CAN/ULC-S701.1 STANDARD

STYRORAIL

SR.SLOPE™	EXPANDED POLYSTYRENE RIGID INSULATION FOR FLAT ROOF

AVAILABLE DIMENSIONS

1219 mm x 1219 mm	[48" x 48"]	0.5 %
		1 %
		1.5 %
		2 %
		3 %
		4 %

Square joints by default. Ship lap joints also available.
Others slope available upon request. 45 counter-slope for chimneys also available.

R-VALUE

The thermal resistance for a sloped insulation is calculated according to the average insulation thicknesses over the entire roof.

The panels are custom-cut according to a predetermined pattern thus providing a slope towards drains. An installation layout is provided by Styro Rail™ according to the roof dimensions and the drain locations.

RECOMMENDED USE

Install **SR.Slope™** panels to insulate flat roofs and ensure a positive slope towards the drain.

Install **SR.Slope™** panels to obtain a continuous thermal blanket that eliminates thermal bridges. Ideal for roofing applications that use typical roofing materials, such as Built-Up Roofing [BUR], Ethylene Propylene Diene Monomer [EPDM] and modified bitumen.

CERTIFICATION

Warnock Hersey has certified the type 1, 2 and 3 expanded polystyrene contained in **SR.Slope™** and panels in accordance with the CAN/ULC-S701.1 standard. The type 1, 2 and 3 expanded polystyrene produced by STYRORAIL™ is listed in the CCMC Registry of Product Evaluation under CCMC 13276-L, CCMC 13271-L and CCMC 13277-L.

SR.SLOPE™	EXPANDED POLYSTYRENE RIGID INSULATION FOR FLAT ROOF

PHYSICAL PROPERTIES

SR.SLOPE™	100	200	300
Type	1	2	3
Thermal Resistance Min. [ASTM C518] Thickness of 25 mm [1"]	RSI 0,65 [R3.7]	RSI 0,70 [R4.0]	RSI 0,74 [R4.2]
MVTR Max. [ASTM E96]	300 ng/Pa•s•m² [5.24 US Perms]	200 ng/Pa•s•m² [3.5 US Perms]	130 ng/Pa•s•m² [2.27 US Perms]
Compressive Strength Min. [ASTM D1621] 10% Deformation	70 kPa [10 PSI]	110 kPa [16 PSI]	140 kPa [20 PSI]
Flexural Strength Min. [ASTM C203]	170 kPa [25 PSI]	240 kPa [35 PSI]	300 kPa [44 PSI]
Water Absorption Max. [ASTM D2842] Volume	4 %	3 %	2 %
Dimensional Stability Max. [ASTM D2126] Linear Variation	1.5 %	1.5 %	1.5 %
Limiting Oxygen Index Min. [ASTM D2863]	24 %	24 %	24 %
Density Min. [ASTM C303]	16 kg/m³ [1.0 lbs/ft³]	20 kg/m³ [1.2 lbs/ft³]	25 kg/m³ [1.5 lbs/ft³]
Flame Spread Rating [CAN/ULC S102.2]	145	145	145

SR.SLOPE™ | **EXPANDED POLYSTYRENE RIGID INSULATION FOR FLAT ROOF**

ENVIRONMENTAL DATA

The expanded polystyrene used in the making of the **SR.Slope™** boards are composed of 98% air and 2% plastic material. They are manufactured without HCFC, HFC gases and without HBCD flame retardant.

The STYRORAIL™ products can contribute to LEED credits.

Please send us your LEED Material Declaration Form at **projetleed@styrorail.ca**.

STORAGE

Store **SR.Slope™** boards in a dry and ventilated location, protected from the outside elements, ultraviolet rays, open flames or other sources of ignition. Stack boards on pallets of minimum 100 mm [4"] over the ground.

INSTALLATION

Boards must be dry and in good condition before installation.

To limit the color loss from UV exposure, cover the installed **SR.Slope™** boards with a membrane protecting them from ultraviolet rays.

LIMITATIONS

Expanded polystyrene is combustible. Even if expanded polystyrene contains a flame retardant, limit use of open flame or ignition sources near product. A protective barrier or thermal barrier is required as specified in the appropriate building code.

Expanded polystyrene may be affected by some oil based solvents.

EXEMPTION OF LIABILITY

The information herein is based on the present state of our best scientific and practical knowledge. The user is responsible for checking the suitability of products for their intended use. STYRORAIL™ technical data sheets are updated on a regular basis; it is the user's responsibility to obtain and to confirm the most recent version. Information contained in this data sheet may change without notice.