

SR.I™

EXPANDED POLYSTYRENE RIGID INSULATION WITH INTEGRATED FURRINGS

The SR.I™ panels manufactured by Styro Rail Inc. are composed of type 1 [100 series] or type 2 [200 series] expanded polystyrene [EPS] rigid insulation in which 25 mm x 76 mm [1" x 3"] furring strips are embedded at every 406 mm [16"] o.c. or at every 610 mm [24"] o.c.

Available option :
Crowned furring strips



+ **CHARACTERISTICS**

- ULTRA VERSATILE PANEL
- VARIETY OF USES [FOUNDATIONS, WALLS, CEILINGS]
- EXCELLENT MOISTURE RESISTANCE
- COMBINES FURS AND INSULATION INSTALLATION INTO ONE STEP
- MEETS CAN/ULC-S701.1 STANDARD

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AVAILABLE DIMENSIONS

		100	200
1219 mm x 2438 mm	[48" x 96"]	38 mm [1-1/2"]	R5.6 R6.0
1219 mm x 2743 mm	[48" x 108"]	51 mm [2"]	R7.4 R8.0
1219 mm x 3048 mm	[48" x 120"]	64 mm [2-1/2"]	R9.3 R10.0
		76 mm [3"]	R11.1 R12.0
		89 mm [3-1/2"]	R13.0 R14.0
		102 mm [4"]	R14.8 R16.0

Other dimensions available upon request. Two side ship lap joints.
 Integrated flush furs at every 406 mm [16"] o.c. by default. Furs at every 610 mm [24"] o.c. or crowned available upon request. Also available without furs.
 Higher R-values also available with Graphite EPS.

RECOMMENDED USE

SR.I™ panels are versatile and can be used in many applications requiring the fastening of finished material. Install SR.I™ panels on the interior surface of foundation walls, flat and cathedral ceilings in order to obtain a continuous thermal envelope. Ideal when space is limited.

CERTIFICATION

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

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PHYSICAL PROPERTIES

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

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ENVIRONMENTAL DATA

The expanded polystyrene used in the making of the SR.I™ panels 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@styorail.ca.

STORAGE

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

INSTALLATION

Panels must be dry and in good condition before installation.

To limit the color loss from UV exposure, cover the installed SR.I™ panels with an exterior cladding protecting them from ultraviolet rays.

Refer to the *Installation Guide* for more information.

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.