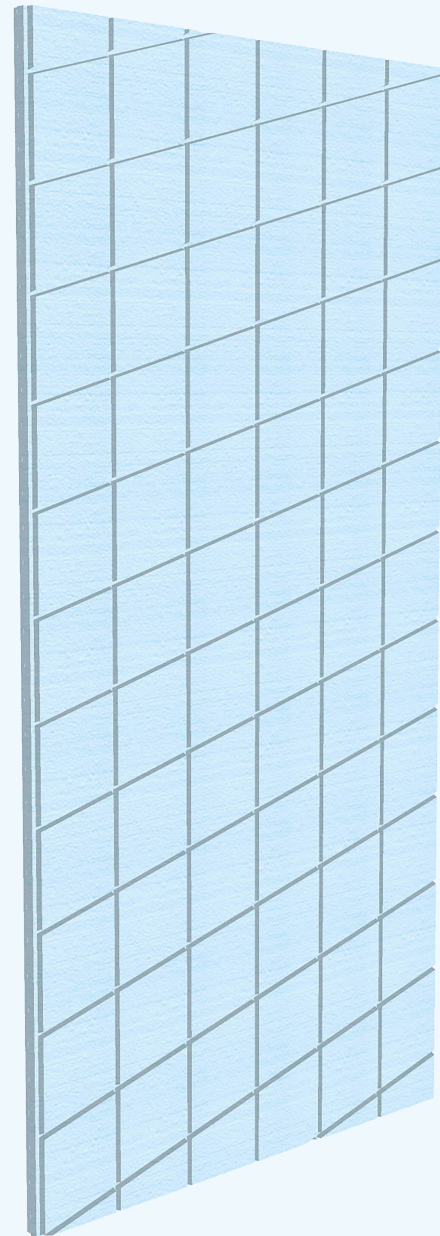


# SR.DRAIN™

## EXPANDED POLYSTYRENE RIGID INSULATION FOR VERTICAL SURFACE DRAINAGE

The SR.Drain™ panels manufactured by Styro Rail Inc. are composed of type 2 [200 series] or type 3 [300 to 600 series] expanded polystyrene [EPS] rigid insulation. They comprise of a smooth surface and a surface with grooves allowing water to drain downwards.



### CHARACTERISTICS

EFFICIENT VERTICAL DRAINAGE OF THE BUILDING BELOW GROUND LEVEL

PERMANENT R-VALUE - DOES NOT DIMINISH WITH TIME

INERT MATERIAL WHICH DOES NOT CONTAIN ORGANIC MATTER - NOT-AFFECTED BY SOIL OR GROUNDWATER

MEETS CAN/ULC-S701.1 STANDARD

**SR.DRAIN™** EXPANDED POLYSTYRENE RIGID INSULATION FOR VERTICAL SURFACE DRAINAGE

**AVAILABLE DIMENSIONS**

				200	300	350	400	600
1219 mm x 2438 mm	[48" x 96"]	51 mm	[2"]	R8.0	R8.4	R8.6	R8.6	R9.2
1219 mm x 2743 mm	[48" x 108"]	64 mm	[2-1/2"]	R10.0	R10.5	R10.8	R10.8	R11.5
1219 mm x 3048 mm	[48" x 120"]	76 mm	[3"]	R12.0	R12.6	R12.9	R12.9	R13.8
		89 mm	[3-1/2"]	R14.0	R14.7	R15.1	R15.1	R16.1
		102 mm	[4"]	R16.0	R16.8	R17.2	R17.2	R18.4

Ship lap joints available on 2 or 4 sides.

**RECOMMENDED USE**

Install **SR.Drain™** panels on the exterior surface of the foundation walls, the channeled surface on the interior side, towards the foundation wall, in order to obtain a continuous insulation of the wall and enhancing the effectiveness of a waterproofing system. The draining grooves contribute to channeling sub-surface water away and preventing the built-up of hydrostatic pressure against the structure. The type 3 **SR.Drain™** panels are ideal for prolonged groundwater contact applications; with the lowest water absorption rate of the three available EPS types.

**CERTIFICATION**

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

**SR.DRAIN™** **EXPANDED POLYSTYRENE RIGID INSULATION FOR VERTICAL SURFACE DRAINAGE**

**PHYSICAL PROPERTIES**

SR.DRAIN™	200	300	350	400	600
Type	2	3	3	3	3
Thermal Resistance Min. [ASTM C518] Thickness of 25 mm [1"]	RSI 0,70 [R4.0]	RSI 0,74 [R4.2]	RSI 0,76 [R4.3]	RSI 0,76 [R4.3]	RSI 0,81 [R4.6]
MVTR Max. [ASTM E96]	200 ng/Pa·s·m <sup>2</sup> [3.5 US Perms]	130 ng/Pa·s·m <sup>2</sup> [2.27 US Perms]	130 ng/Pa·s·m <sup>2</sup> [2.27 US Perms]	130 ng/Pa·s·m <sup>2</sup> [2.27 US Perms]	130 ng/Pa·s·m <sup>2</sup> [2.27 US Perms]
Compressive Strength Min. [ASTM D1621] 10% Deformation	110 kPa [16 PSI]	140 kPa [20 PSI]	210 kPa [30 PSI]	276 kPa [40 PSI]	414 kPa [60 PSI]
Flexural Strength Min. [ASTM C203]	240 kPa [35 PSI]	300 kPa [44 PSI]	345 kPa [50 PSI]	414 kPa [60 PSI]	517 kPa [75 PSI]
Water Absorption Max. [ASTM D2842] Volume	3 %	2 %	1.8 %	1.5 %	0.7 %
Dimensional Stability Max. [ASTM D2126] Linear Variation	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %
Limiting Oxygen Index Min. [ASTM D2863]	24 %	24 %	24 %	24 %	24 %
Density Min. [ASTM C303]	20 kg/m <sup>3</sup> [1.2 lbs/ft <sup>3</sup> ]	25 kg/m <sup>3</sup> [1.5 lbs/ft <sup>3</sup> ]	29 kg/m <sup>3</sup> [1.8 lbs/ft <sup>3</sup> ]	39 kg/m <sup>3</sup> [2.4 lbs/ft <sup>3</sup> ]	53 kg/m <sup>3</sup> [3.3 lbs/ft <sup>3</sup> ]
Flame Spread Rating [CAN/ULC S102.2]	145	145	145	145	145

**SR.DRAIN™****EXPANDED POLYSTYRENE RIGID INSULATION FOR VERTICAL  
SURFACE DRAINAGE****ENVIRONMENTAL DATA**

The expanded polystyrene used in the making of the **SR.Drain™** 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@styrorail.ca](mailto:projetleed@styrorail.ca).

**STORAGE**

Store **SR.Drain™** 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.Drain™** 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.