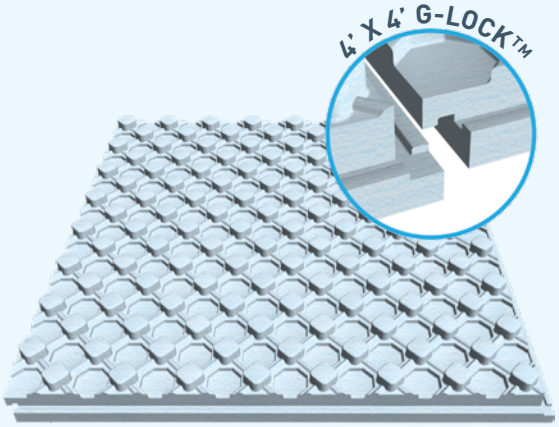
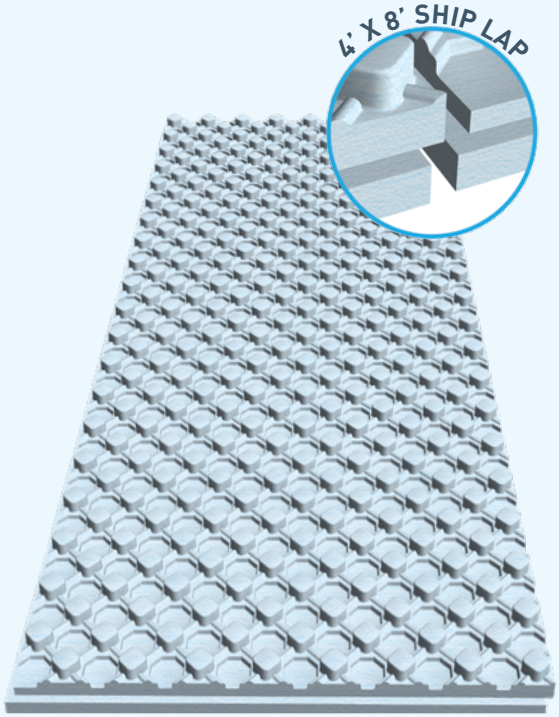
SR.HYDROPEX MD

RADIANT HEAT FLOORING EXPANDED POLYSTYRENE RIGID INSULATION

The SR.HydroPex™ panels manufactured by STYRORAIL Inc. are composed of type 2 [200 series] expanded polystyrene [EPS] rigid insulation or type 3 [300 to 600 series]. A honeycomb-layout creates a spacing with intervals of 76 mm [3"] for the placement of the pipes. The system is compatible with all pipes dimensions: 13 mm [½"], 16 mm [⅝"], 20 mm [¾"] et 25 mm [1"].

Available option :
rebar chairs featuring cover heights of 2" or 3".





CHARACTERISTICS

- POLYVALENT MULTIDIRECTIONAL SYSTEM
- VARIOUS COMPRESSIVE VALUES FOR ALL USES [BETWEEN 110 KPA AND 414 KPA | 16 PSI AND 60 PSI]
- AVAILABLE IN 2 (TWO) SIZES LARGE PANEL - FASTER INSTALLATION
- COMPATIBLE WITH ALL PIPE DIMENSIONS
- HONEYCOMB LAYOUT HOLDS THE PIPES SECURELY IN POSITION, WITHOUT TIES – ALLOWS A "STANDING" INSTALLATION
- ELIMINATES WIRE MESH INSTALLATION WHEN IT IS NOT REQUIRED FOR SLAB REINFORCEMENT
- THERMAL BARRIER LIMITING HEATLOSSES THROUGH SOIL
- MEETS CAN/ULC-S701.1 STANDARD

SR.HYDROPEX™ RADIANT HEAT FLOORING EXPANDED POLYSTYRENE RIGID INSULATION

AVAILABLE DIMENSIONS

				200	300	350	400	600
1219 mm x 1219 mm	[48" x 48"][1]	64 mm	[2-½"]	R10.0*	R10.5	R10.8	R10.8	R11.5
1219 mm x 2438 mm	[48" x 96"][2]	64 mm	[2-½"]	R10.0*	R10.5	R10.8	R10.8	R11.5

1. G-lock™ system on four sides.
2. 19 mm [¾"] four sides ship lap joints.

* In stock

RECOMMENDED USE

Install **SR.Hydropex™** panels as a insulating material that offers a support to fix water or glycol radiant heat floor pipes. Install 200 series prior to the pouring of finished concrete of basement slabs and residential garages; 300 to 600 series for commercial, industrial and agricultural concrete slabs.

CERTIFICATION

Warnock Hersey has certified the type 2 and type 3 expanded polystyrene contained in **SR.Hydropex™** 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.

ENVIRONMENTAL DATA

The expanded polystyrene used in the making of the **SR.Hydropex™** 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**.

STORAGE

Store **SR.Hydropex™** 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.

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.

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PHYSICAL PROPERTIES

SR.HYDROPEX™	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•m² [3.5 US Perms]	130 ng/Pa•s•m² [2.27 US Perms]	130 ng/Pa•s•m² [2.27 US Perms]	130 ng/Pa•s•m² [2.27 US Perms]	130 ng/Pa•s•m² [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/m³ [1.2 lbs/ft³]	25 kg/m³ [1.5 lbs/ft³]	29 kg/m³ [1.8 lbs/ft³]	39 kg/m³ [2.4 lbs/ft³]	53 kg/m³ [3.3 lbs/ft³]
Flame Spread Rating [CAN/ULC S102.2]	145	145	145	145	145