

SR.F200™

EXPANDED POLYSTYRENE RIGID INSULATION FOR CONCRETE FORMS

The SR.F200™ panels manufactured by Styro Rail Inc. are composed of type 2 expanded polystyrene [EPS] rigid insulation. They are inserted into traditional formwork before casting concrete and they are equipped with plastic ties fixed in the concrete wall which are also used for interior finishing.

Available option: SR.F200G™ panels manufactured with NEOPOR® graphite polystyrene beads.



CHARACTERISTICS

EXCELLENT MOISTURE RESISTANCE WITHIN WALLS

NO AIR SPACE BETWEEN THE CONCRETE AND INSULATION WHERE WARM MOIST AIR COULD INFILTRATE, CONDENSE AND GROW MOULD

ELIMINATION OF UNPLEASANT ODORS IN THE BASEMENT FOR A DRY AND COMFORTABLE SPACE

HIGHLY ENERGY-EFFICIENT

QUICK INSULATION AT THE SAME TIME AS THE FOUNDATION IMPLEMENTATION

PANELS WITH VARIOUS WIDTHS FOR A PERFECT ADJUSTMENT TO ALL TYPES OF TRADITIONAL FORMWORK

EASE OF FINISHING WITH SOLID AND ANCHORED PLASTIC TIES THROUGH CONCRETE

MEETS CAN/ULC-S701-11 STANDARD



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AVAILABLE DIMENSIONS

WIDTHS		HEIGHTS		SR.F200™ REGULAR	SR.F200G™ NEOPOR®		
610 mm	[24"]	1219 mm	[4']	102 mm	[4"]	R18 [†]	R21 [†]
406 mm	[16"]	1524 mm	[5']	[†] Effective R-value based on typical wall assembly: concrete wall 200 mm [8"] with normal density aggregates, SR.F™, wood furs 20 mm x 64 mm [1"x3"] and air space 20 mm [3/4"], vapor barrier and gypsum 12.7 mm [1/2"].			
305 mm	[12"]	1676 mm	[5'-6"]				
203 mm	[8"]	1829 mm	[6']				
178 mm	[7"]	2438 mm	[8']				
152 mm	[6"]	2591 mm	[8'-6"]				
102 mm	[4"]	2743 mm	[9']				
76 mm	[3"]	3048 mm	[10']				
51 mm	[2"]						

Two side ship lap joints. Non-standard heights also available upon request

RECOMMENDED USE

Install SR.F200™ panel into traditional formwork before casting concrete, on the interior or exterior side of the walls, to obtain a continuous basement or above grade concrete wall insulation.

Install SR.F200G™ panels when a higher insulation value is needed for a specified thickness.

CERTIFICATION

Warnock Hersey has certified the type 2 expanded polystyrene contained in SR.F200™ and SR.F200G™ panels in accordance with the CAN/ULC-S701-11 standard. The type 2 expanded polystyrene produced by STYRORAIL™ is listed in the CCMC Registry of Product Evaluation under CCMC 13271-L.

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PHYSICAL PROPERTIES

INSULATING PANEL	SR.F200™	SR.F200G™
Type	2	2
Thermal Resistance Min. [ASTM C518] Thickness of 25 mm [1"]	RSI 0,70 [R4.0]	RSI 0,84 [R4.75]
MVTR Max. [ASTM E96]	200 ng/Pa·s·m² [3.5 US Perms]	200 ng/Pa·s·m² [3.5 US Perms]
Compressive Strength Min. [ASTM D1621] 10% Deformation	110 kPa [16 PSI]	110 kPa [16 PSI]
Flexural Strength Min. [ASTM C203]	240 kPa [35 PSI]	240 kPa [35 PSI]
Water Absorption Max. [ASTM D2842] Volume	4 %	4 %
Dimensional Stability Max. [ASTM D2126] Linear Variation	1.5 %	1.5 %
Limiting Oxygen Index Min. [ASTM D2863]	24 %	24 %
Density Min. [ASTM C303]	20 kg/m³ [1.2 lbs/ft ³]	20 kg/m³ [1.2 lbs/ft ³]
Flame Spread Rating [CAN/ULC S102.2]	145	240

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ENVIRONMENTAL DATA

The expanded polystyrene used in the making of the SR.F200™ and SR.F200G™ 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.F200™ and SR.F200G™ panels in a dry 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.

Pay special attention to the storage of the SR.F200G™ panels made with Neopor®.

Cover the unwrapped SR.F200G™ panels or if packaging has been damaged with an **opaque** white tarp. An excessive heat accumulation can deform products made with Neopor®.

Do not store the SR.F200G™ panels near any reflective surfaces [ex: glass, metal]. A heat concentration from reflected sunlight can deform products made with Neopor®.

NEOPOR® Registered Trademark of BASF.

INSTALLATION

Panels must be dry and in good condition before installation.

To limit the color loss from UV exposure, cover the installed SR.F200™ panels with an exterior cladding protecting them from ultraviolet rays.

Avoid the prolonged exposure to sunlight of the SR.F200G™ grey/black surface made with Neopor®. Avoid the concentration of sunlight rays from radiation. Cover as soon as possible on hot days and/or during non-windy conditions. An excessive heat accumulation can deform products made with Neopor®.

Refer to the *Installation Guide* for more informations.

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.

An excessive heat accumulation can deform products made with Neopor®.

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.