

# SR.AIR™

EXPANDED POLYSTYRENE RIGID INSULATION COMBINED TO AN AIR | WEATHER BARRIER

The SR.Air™ boards manufactured by Styro Rail Inc. are composed of type 2 expanded polystyrene [EPS] rigid insulation laminated to an air and weather barrier.



## CHARACTERISTICS

COMPLETE AIR TIGHTNESS – 100% SEALED JOINTS BY THE 4" OVERLAPS ON TWO SIDES

ELIMINATES SEALING TAPES AT ALL JOINTS COVERED BY FURS

CONTINUOUS INSULATION – ELIMINATING THERMAL BRIDGES

BREATHABLE MEMBRANE: ALLOWING FOR MOISTURE VAPOR TO ESCAPE

MEMBRANE PUSHING THE WATER DROPLETS TOWARDS THE EXTERIOR

MEETS CAN/ULC-S701-11 STANDARD



**SR.AIR™** EXPANDED POLYSTYRENE RIGID INSULATION COMBINED TO AN AIR | WEATHER BARRIER

**AVAILABLE DIMENSIONS**

		200		
1219 mm x 2438 mm	[48" x 96"]	25 mm	[1"]	R4.0*
1219 mm x 2743 mm	[48" x 108"]	38 mm	[1-1/2"]	R6.0*
		51 mm	[2"]	R8.0*
		57 mm	[2-1/4"]	R9.0*
		64 mm	[2-1/2"]	R10.0*
		76 mm	[3"]	R12.0

Other dimensions available upon request. Ship laped joints on two sides.  
 Higher R-values also available with Neopor® Graphite EPS.

\* In stock

**RECOMMENDED USE**

Install SR.Air™ boards on the exterior surface of framed walls in order to obtain a continuous thermal envelope, a barrier against potential air infiltration beneath the exterior siding and in order to limit unforeseen water infiltrations.

**CERTIFICATION**

Warnock Hersey has certified the type 2 expanded polystyrene contained in SR.Air™ boards 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.

The air and weather barrier contained in SR.Air™ boards is listed in the CCMC Registry of Product Evaluation under CCMC 13292-R and CCMC 13329-R.

**SR.AIR™** EXPANDED POLYSTYRENE RIGID INSULATION COMBINED TO AN AIR | WEATHER BARRIER

**PHYSICAL PROPERTIES**

INSULATING PANEL	
Type	2
Thermal Resistance Min. Regular [ASTM C518] Thickness of 25 mm [1"]	RSI 0,70 [R4.0]
Thermal Resistance Min. Neopor® [ASTM C518] Thickness of 25 mm [1"]	RSI 0,84 [R4.75]
MVTR Max. [ASTM E96]	200 ng/Pa·s·m² [3.5 US Perms]
Compressive Strength Min. [ASTM D1621] 10% Deformation	110 kPa [16 PSI]
Flexural Strength Min. [ASTM C203]	240 kPa [35 PSI]
Water Absorption Max. [ASTM D2842] Volume	4 %
Dimensional Stability Max. [ASTM D2126] Linear Variation	1.5 %
Limiting Oxygen Index Min. [ASTM D2863]	24 %
Density Min. [ASTM C303]	20 kg/m³ [1.2 lbs/ft³]
Flame Spread Rating Regular [CAN/ULC S102.2]	145
Flame Spread Rating Neopor® [CAN/ULC S102.2]	240

AIR AND WEATHER BARRIER MEMBRANE*	
Tensile Strength [ASTM D5034]	MD** 222 N [50 lbs-force]
	CD 178 N [40 lbs-force]
Tear Strength [ASTM D4533]	MD 89 N [20 lbs-force]
	CD 68 N [15 lbs-force]
Water Resistance - Hydrostatic Pressure [AATCC 127]	581 cm
Mullen Burst Strength [ASTM D3786]	703 kPa [102 PSI]
MVTR [ASTM E96]	629 ng/Pa·s·m² [11 US Perms]
Fire Resistance [ASTM E84]	Class A
Low Temperature Flexibility [ASTM D1970]	-50°C Pass
Air Permeance Max. [ASTM 2178] @ 75 Pa	0.0014 L/s·m² [0.003 cfm/ft²]
Air Porosity [TAPPI T460]	>1800 s/100 cc
UV Resistance	6 months

\* Data provided by the manufacturer.

\*\* MD Machine Direction, CD Cross Machine Direction

SR.AIR™	
MVTR Min. [ASTM E96]	60 ng/Pa·s·m² [1.0 US Perm]

**SR.AIR™** **EXPANDED POLYSTYRENE RIGID INSULATION COMBINED TO AN AIR | WEATHER BARRIER**

**ENVIRONMENTAL DATA**

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

**STORAGE**

Store **SR.Air™** boards in a dry 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.Air™** boards with an exterior cladding protecting them from ultraviolet rays.

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.

**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.