

# SR.PIPE™

## EXPANDED POLYSTYRENE RIGID INSULATION FOR UNDERGROUND PIPING

The SR.Pipe™ blocks manufactured by Styro Rail Inc. are composed of type 2 or type 3 expanded polystyrene [EPS] rigid insulation.



### CHARACTERISTICS

SUITABLE FOR VARIOUS TYPES OF PIPING  
FROM 38 MM [1-1/2"] TO 102 MM [4"]

HIGH COMPRESSIVE STRENGTH UP TO 276 kPa [40 PSI]

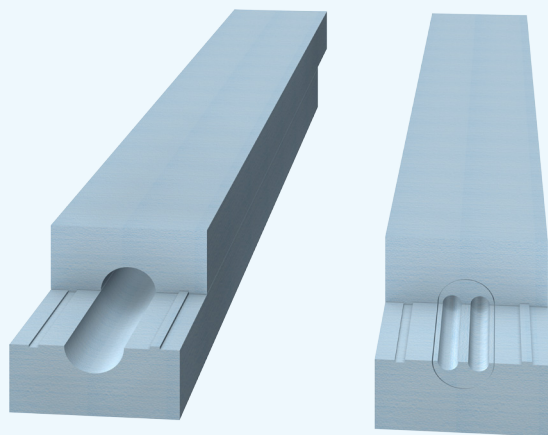
INERT MATERIAL - NOT-AFFECTED BY SOIL OR  
GROUNDWATER

LOW WATER ABSORPTION - FREEZE | THAW RESISTANT

PERMANENT R-VALUE - DOES NOT DIMINISH WITH  
TIME

100% RECYCLABLE MATERIAL

MEETS CAN/ULC-S701-11 STANDARD



**SR.PIPE™**      **EXPANDED POLYSTYRENE RIGID INSULATION FOR UNDERGROUND PIPING**

**AVAILABLE DIMENSIONS**

|                                  |                   | 200    | 300   | 350   | 400   |
|----------------------------------|-------------------|--------|-------|-------|-------|
| <b>305 mm x 305 mm x 2438 mm</b> | [12" x 12" x 96"] | R16.0* | R16.8 | R17.2 | R17.2 |

Other dimensions available upon request.

\* In stock

**RECOMMENDED USE**

Install **SR.Pipe™** blocks as a protective material to reduce the risk of freezing for piping below the ground level. Use for water pipes, water drainage pipe systems and for flat roofs drainage pipes. The 200 series is ideal for installation under loose soil and under residential garage concrete slabs. Use the 300 and 400 series for installation under commercial, industrial and agricultural garage concrete slabs as well as under the footings, road infrastructure concrete pavement and parking lots. Includes two [2] grooves suitable for two [2] pipes up to 38 mm [1-1/2"] in diameter. Removable central part to accommodate one [1] pipe up to 102 mm [4"] in diameter.

**CERTIFICATION**

Warnock Hersey has certified the type 2 and type 3 expanded polystyrene contained in **SR.Pipe™** blocks in accordance with the CAN/ULC-S701-11 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.Pipe™** blocks are composed of 98% air and 2% plastic material. They are manufactured without HCFC, HFC gases and without HBCD flame retardant.

**STORAGE AND COVERING**

Store and install blocks in a location protected from ultraviolet rays, open flames or other sources of ignition. Blocks must be in good condition before installation.

In order to limit the color loss from extended periods of UV exposure, cover the blocks at the earliest opportunity with an tarpaulin, film or a material protecting from ultraviolet rays.

**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.PIPE™  | 200  | 300  | 350  | 400  |
|---|--|--|--|--|
| <b>Type</b>   | 2  | 3  | 3  | 3  |
| <b>Thermal Resistance Min.</b><br>[ASTM C518] Thickness of 25 mm [1"] | <b>RSI 0,70</b><br>[R4.0]                                | <b>RSI 0,74</b><br>[R4.2]                                | <b>RSI 0,76</b><br>[R4.3]                                | <b>RSI 0,76</b><br>[R4.3]                                |
| <b>MVTR Max.</b><br>[ASTM E96]  | <b>200 ng/Pa-s-m<sup>2</sup></b><br>[3.5 US Perms]       | <b>130 ng/Pa-s-m<sup>2</sup></b><br>[2.27 US Perms]      | <b>130 ng/Pa-s-m<sup>2</sup></b><br>[2.27 US Perms]      | <b>130 ng/Pa-s-m<sup>2</sup></b><br>[2.27 US Perms]      |
| <b>Compressive Strength Min.</b><br>[ASTM D1621] 10% Deformation      | <b>110 kPa</b><br>[16 PSI]                               | <b>140 kPa</b><br>[20 PSI]                               | <b>207 kPa</b><br>[30 PSI]                               | <b>276 kPa</b><br>[40 PSI]                               |
| <b>Flexural Strength Min.</b><br>[ASTM C203]                          | <b>240 kPa</b><br>[35 PSI]                               | <b>300 kPa</b><br>[44 PSI]                               | <b>345 kPa</b><br>[50 PSI]                               | <b>414 kPa</b><br>[60 PSI]                               |
| <b>Water Absorption Max.</b><br>[ASTM D2842] Volume                   | 4 %  | 2 %  | 2 %  | 2 %  |
| <b>Dimensional Stability Max.</b><br>[ASTM D2126] Linear Variation    | 1.5 %  | 1.5 %  | 1.5 %  | 1.5 %  |
| <b>Limiting Oxygen Index Min.</b><br>[ASTM D2863]                     | 24 %   | 24 %   | 24 %   | 24 %   |
| <b>Density Min.</b><br>[ASTM C303]                                    | <b>20 kg/m<sup>3</sup></b><br>[1.2 lbs/ft <sup>3</sup> ] | <b>25 kg/m<sup>3</sup></b><br>[1.5 lbs/ft <sup>3</sup> ] | <b>29 kg/m<sup>3</sup></b><br>[1.8 lbs/ft <sup>3</sup> ] | <b>39 kg/m<sup>3</sup></b><br>[2.4 lbs/ft <sup>3</sup> ] |
| <b>Flame Spread Rating</b><br>Neopor® [CAN/ULC S102.2]                | 145  | 145  | 145  | 145  |