NEOTHERM™ EPS | TYPE 1 - 2 - 3

Rigid insulation board for flat roofs, walls and foundations

EZ Clip



General description

The rigid insulation board from Millenium is composed of type 1, type 2 or type 3 expanded polystyrene [EPS] rigid foam insulation.

Recommended use

Install Neotherm™ EPS rigid insulation board loose laid, fully adhered or mechanically fastened for a continuous thermal envelope. It is used in the design of several highperformance roofing systems and walls of commercial, industrial and institutional building.

Applications

Flat roofs, cathedral roofs, metal roofs, exterior and interior walls, foundation walls, basement walls, backfill insulation and other insulation projects.

Thermal value

Thickness	Type 1	Type 2	Type 3
25 mm [1″]	R4.5	R4.6	R4.6
38 mm [1-½″]	R6.75	R6.9	R6.9
51 mm [2″]	R9.0	R9.2	R9.2
64 mm [2-½″]	R11.25	R11.5	R11.5
76 mm [3″]	R13.5	R13.8	R13.8

Dimensions : 610 mm x 2 438 mm [24″ x 96″] ; 1 219 mm x 2 438 mm [48″ x 96″].

Other dimensions and thickness available upon request. Square joints by default. Ship lap joints available on two sides for 25 mm [1″] thick panels. For panels with a minimum thickness of 38 mm [1-½″], ship lap joints available on two or four sides or EZ clip system available on two or four sides.

To obtain the RSI value multiply the R value by 5.674

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Certification

Warnock Hersey has certified the expanded polystyrene contained in rigid insulation boards in accordance with the CAN/ ULC-S701-11 standard. The expanded polystyrene from Millenium is listed in the CCMC Registry of Product Evaluation under CCMC 13276-L.

Features and benefits

- R-value which remains permanent with time;
- Excellent R-value/cost ratio;
- More than 4 times more stable dimensionally than the requirements*;
- Excellent moisture resistance within the walls;
- Non vapour barrier - Enclosed rigid plastic cells that allows water vapour diffusion while maintaining the insulating value;
- Versatile, lightweight, easy to transport and install;
- 100 % recyclable material;

* According to the requirements of CAN/ULC-S701-11 standard

Environmental data

Expanded polystyrene included in rigid insulation boards are composed of 98 % air and 2 % plastic material. They are manufactured without HCFC or HFC gases. The Millenium products can contribute to LEED credits for Optimizing Energy Performance, Recycled Content, Regional Materials, Low-Emitting Materials [Adhesives and Sealants], Construction Waste Management and IAQ Management Plan for the Pre-Occupancy Phase. Please send us your LEED Material Declaration Form at info@millenium.plus.

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. Millenium 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.

Storage and covering

Store 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"] above the ground. If provided packaging has been damaged during shipping, cover boards with a weather and ultraviolet tarp. Boards must be dry and in good condition before installation. To limit the color loss from UV exposure, cover the installed boards with an exterior cladding protecting from ultraviolet rays.

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Technical data

Physical properties	Type 1	Type 2	Type 3
Thermal Resistance Min. [ASTM C518] Thickness of 25 mm [1"]	RSI 0.65 [R4.5]	RSI 0.70 [R4.6]	RSI 0.74 [R4.6]
MVTR Max. [ASTM E96]	300 ng/Pa.s.m^2 [5.24 Perm]	200 ng/Pa.s.m^2 [3.5 Perm]	130 ng/Pa.s.m^2 [2.27 Perm]
Compressive Strength Min. [ASTM D1621] 10 % Deformation	70 kPa [10 PSI]	110 kPa [16 PSI]	140 kPa [20 PSI]
Flexural Strength Min. [ASTM C203]	170 kPa [25 PSI]	240 kPa [35 PSI]	300 kPa [44 PSI]
Water Absorption Max. [ASTM D2842] Volume	6 %	4 %	2 %
Dimensional Stability Max. [ASTM D2126] Linear Variation	1.5 %	1.5 %	1.5 %
Limiting Oxygen Index Min. [ASTM D2863]	24 %	24 %	24 %
Density Min. [ASTM C303]	16 Kg/m^3 [1.00 lbs/ft^3]	20 Kg/m^3 [1.25 lbs/ft^3]	25 Kg/m^3 [1.5 lbs/ft^3]

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