

HD210

HIGH DENSITY INSULATING PANEL

ASTM D1621 & ASTM C518 regulation tested



Insulation



Light



Structural



Inert



Genie engineering



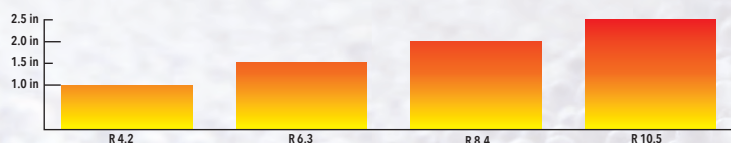
Construction

HD210 - GEOTECHNICAL INSULATING PANEL

Standard reference	CAN / ULC S701
Class	TYPE 4*
Maximum service temperature	74 °C [165 °F]
Flammability	Flame retardant agent
Perpendicularity	0.19 in [5 mm] (Maximum difference between diagonal lengths)
Compression resistance (min.) @ 10 % of deformation (ASTM D1621)	210 kPa [30 psi] The load limit used by Geofoam designs is typically at 35 % of compression resistance
Thermal resistance - per in (min.) (ASTM C518)	R - 4.2 (0.74 m ² °C / W)
Dimensions	48 in x 96 in [1 219 mm x 2 438 mm] (Straight edges) or 48 in x 48 in [1219 mm x 1219 mm] (Shiplap)
Thickness	Adjustable
Water absorption (ASTM D2842)	Maximum 2 %
Packaging options	Regular plastic wrap UV plastic wrap (For long-term storage)

* Meets Type 4 compression resistance

HD210 insulating panels can be produced in various thicknesses to obtain the required R value to meet the specific standards of your project.



Expanded polystyrene based geotechnical components have been used for decades as insulation on road infrastructures projects.

Due to their great structural stability, their resistance to freeze-thaw cycles, their durability and their excellent cost/effectiveness costs, the high density insulation geotechnical panels have proven to be a great value option to reduce maintenance costs and road infrastructure repairs, throughout their lifetime.

GEOTECHNICAL APPLICATIONS:

- Frost protection
- Maintenance cost reduction
- Building foundations
- Green roof projects

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We shape ideas with foam

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VERY HIGH DENSITY, compression resistance
210 kPa / 30 psi* (When tested at 10 % of deformation as per ASTM D1621)

48 in x 48 in panel (Straight edges, various thicknesses)

48 in x 48 in panel (Shiplaps, various thicknesses)

Contains 97 % AIR

LIGHT, less than 8 kg per panel (2.4 in thick)

Water and humidity RESISTANT

Long term DIMENSIONAL STABILITY

STABLE throughout freeze and thaw cycles

DURABLE, does not decompose

INERT in the environment, does not transform into gas or leachate

FIREPROOF material, does not spread flame

DOES NOT contain CFC / HCFC / HFC

Recyclable

Geotechnical behaviour DOCUMENTED and PREDICTABLE

Tested as per ASTM D1621 & ASTM C518

* Tested as per ASTM D1621. The load limit used by Geofoam designs is typically at 35 % of compression resistance.

Over the years, Polymos® has been involved in numerous projects relying on the unique characteristics of lightweight fill. From that extensive experience, Polymos®, specialists developed an unmatched expertise to offer you more than only lightweight fill. [Contact us to benefit from our full services :](#)

- Technical assistance
- Design
- Lightweight fill components custom-design and manufacturing



Residential, commercial and industrial foundations.

This product is available in various dimensions and densities to meet your project's specific requirements. Custom-made blocks and sheets can be designed to meet atypical specifications. Contact us for more information or to get a quote based on your needs.



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