HD275

HIGH DENSITY INSULATING PANEL

ASTM D1621 & ASTM C518 regulation tested

Insulation | Light | Structural | Inert | Civil Engineering | Construction

HD275 - GEOTECHNICAL INSULATING PANELS

Standard reference	14301 MTQ STANDARD, TOME VII, CHAPTER 14 *(Misc. materials)*
Class	TYPE A - POLYSTYRENE for thermal insulation
Maximum service temperature	74 °C *[165 °F]*
Flammability	Flame retardant agent
Perpendicularity	0.19 in *[5 mm] (Maximum difference between diagonal lenghts)*
Compression resistance *(min.)* @ 10 % of deformation *(ASTM D1621)*	275 kPa *[40 psi]* The load limit used by Geofoam designs is typically at 35 % of compression resistance*
Elasticity module *(min.) (ASTM 1621)*	9 000 kPa *[1 305 psi]*
Thermal resistance - per inch *(min.) (ASTM C518)*	R - 4.2 *(0.74 m² °C / W)*
Dimensions	48 in x 96 in *[1 219 mm x 2 438 mm]*
Thickness	Based on requirements
Water absorption *(ASTM D2842)*	Maximum 2 %
Packaging options	Regular plastic wrap
	UV plastic wrap for long-term storage

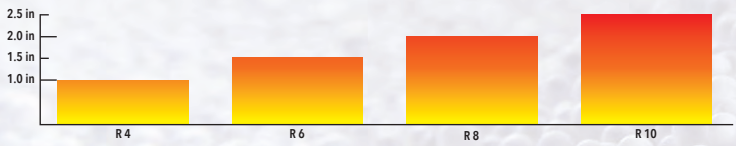
Expanded polystyrene based geotechnical components have been used for decades as insulation on road infrastructures projects.

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 production
- Underground infrastructure insulation *(Water networks and sewers)*
- Green roof projects

HD275 insulating panels can be produced in various thicknesses to obtain the required R value to meet the specific standards of your project.



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- VERY HIGH DENSITY, compression resistance 275 kPa / 40 psi * *(When tested at 10 % of deformation as per ASTM D1621)*
- 48 in x 96 in panel *(Thickness as required)*
- Contains 96 % 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, meets MTQ 14301 standard, VOLUME VII, Ch 14 *(Misc. materials)* TYPE A / Thermal insulation

* Tested as per ASTM D1621 & ASTM C518. 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 developped 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

* 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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Polymos® geotechnical components are environmentally-friendly and recyclable.

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Design and made in Quebec

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150 5th Boulevard, Terrasse-Vaudreuil, Quebec, Canada J7V 5M3 **Tel.:** (514) 453-1920 **Fax:** (514) 453-0295

www.polymos.com **info@polymos.com**