

TERRAFOAM® HS-60

HIGH STRENGTH EXPANDED POLYSTYRENE INSULATION

Product Description

TERRAFOAM® HS-60 is a closed cell high compressive resistant polystyrene insulation product used for geotechnical service. It should be used wherever large slab loads or lateral earth forces would compress typical insulation products. TERRAFOAM HS-60 provides stable thermal performance for the life of the structure, without using blowing agents that contribute to global warming. It is totally CFC and HCFC free.

TERRAFOAM® HS-60 can be used in low-temperature applications such as freezers and coolers, under streets and highways, airport taxiways, bridge abutments and approach slabs, plaza decks, underground parking structures, and skating arenas and curling ice. Contact Beaver Plastics for specific design considerations.

Compressive Resistance

The TERRAFOAM HS “60” designation indicates a minimum compressive resistance of 60 psi (415 kPa). However, this value is the result of a standard test used for quality control and for monitoring manufacturing processes used throughout the polystyrene insulation industry. All extruded and expanded polystyrene products are subject to high rates of creep under sustained loading, and therefore conservative compressive resistance values should be used wherever long term creep cannot be tolerated. For static loading, a safety factor of 1:3 is reasonable. A dynamic load calculation may use a safety reduction factor of 1:5.

A maximum recommended static pressure used as insulation under concrete slabs would be 48 psi (335 kPa). Consult Beaver Plastics when using TERRAFOAM HS-60 as large volume earth displacement projects.

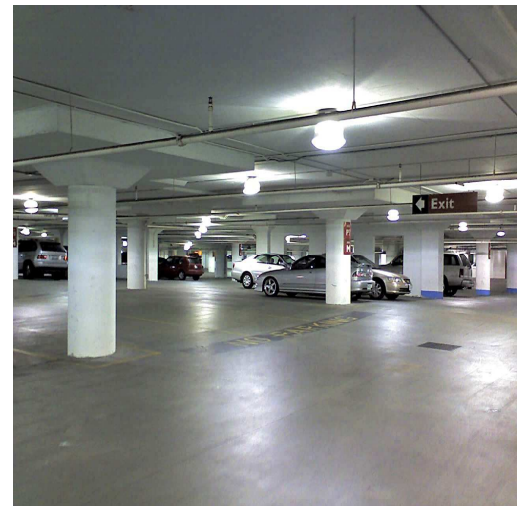


Thermal Insulation Values

RSI and R-Values for 25 mm thicknesses	
R.S.I. - 0.87 @ -10°C	R value – R-5 @ -15°F
R.S.I. - (0.75 @ 24°C)	R value – R-4.3 @ 72°F

Material Properties

Compressive Strength, @ 10% Deformation	415 kPa
Water Vapour Permeance, max, ng/Pa.s.m ²	143
Dimensional Stability, max, % linear change	1% Max.
Flexural Strength, min, kPa	620 kPa
Water Absorption, max, % by volume	1% by volume
Limiting Oxygen Index, min, %	24%



Specifications

TERRAFOAM HS-60 meets the requirements of ASTM C-578 Type 14. Beaver Plastics is also registered and has adopted the ISO 9001:2008 Quality Management Standard.

Sizes and Packaging

Available in 610x1220 (2'x4') sheets in thickness's of 25 mm (1"), 50 mm (2"), 75 mm (3") and 100 mm (4") with butt edges, in bundles of 2' x 2' x 4'.

Caution: Protect from Fire and Heat

Always maintain good housekeeping standards when storing polystyrene products. HS-60 is contains a self-extinguishing agent but must be protected from open flame and excessive heat.



Beaver Plastics

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