

ORI FLOOR

Extruded polystyrene rigid foam with skin, colored blue throughout, according to ASTM standard C578-95, as manufactured by Oriental Polystyrene (OriFoam)

Material thickness shall be according to the drawings and have the following properties:

OriFloor is one of the Styrofoam Plan ranges of insulation products manufactured by Oriental Polystyrene (OriFoam) to suit specific applications.

Ori-Floor insulation boards have been developed specifically for use in floor applications since they possess the following unique physical properties:

High compressive strength.

High water absorption resistance.

Low thermal conductivity

Good handling characteristics

1. Thermal conductivity of 0.026 W/m K respectively when tested at 10°C (50°F) in accordance with ASTM C 518.
2. Compressive strength of 550 kPa (100 psi) average, when tested according to ASTM D 1621.
3. Design load for traffic 120 kPa (20 psi) and 160kPa (23 psi) averages respectively.
4. Water absorption of <3% in volume average when tested in accordance with ASTM D 272.
5. Edge Treatment Ship lap or Butt Edge.

BROCHURE OF EXTRUDED POLYSTYRENE

Insulation, why?

Increasing energy costs and availability problems emphasize the need for immediate energy conservation even in the oil producing countries. An effective way of saving energy is to improve the thermal insulation of buildings. This is particularly important in hot climates where the energy demand for cooling by air conditioning is very high. In addition to the need for energy saving, high insulation standards are justified by improved comfort levels and increased building life. A well-insulated building will have a higher value.

Product Description

ORIFOAM thermal insulation boards are manufacture by the ORIENTAL POLYSTYRENE PRODUCTS CO LLC. Through advance processes, products and application research and development work has taken place various countries. Today, a variety of grades of ORIFOAM INSULATION BOARDS manufactured for many applications and industries, is available in various sizes and with various edge treatments.

Extruded polystyrene foam is used in many parts of the world under widely differing climatic conditions. For example, use in the Middle East at ambient temperatures of more than +40°C (+104°F), while, at the other extreme, Orifoam boards has been used in Alaska to protect the delicate permafrost at temperatures as low as -50°C (-58°F) along 200 km of gravel road servicing the Trans Alaska Oil Pipeline.

Orifoam Thermal sheets are manufactured by a continuous extrusion process which imparts a characteristic closed cell structure giving the product its unique physical properties. Extruded polystyrene rigid foam has a high resistance to water absorption and good mechanical properties. The manufacturing process, combined with inherent qualities of the inert component thermo plastic material gives Orifoam predictable long-term performance and high insulating value.

PRODUCT	DESCRIPTION	APPLICATIONS	BOARD DIMENSIONS
ORI-FLOOR	Extruded Polystyrene rigid foam with skin with high density and high compressive strength. It is available with or without shiplap edge treatment	<ul style="list-style-type: none"> - Floors - Cold stores - Parking decks 	Thickness- 20,30,40.50,60,75,80,90 &100mm Width 600mm Length 1200mm

SPECIFICATION

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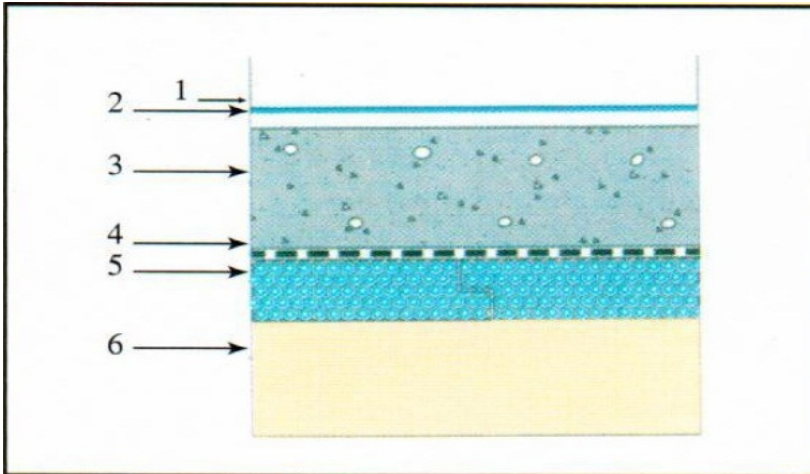
Floor Insulation

In the Middle East, where soil temperatures, even at a depth of 3 meters (10 feet), can reach 33°C (91°F), floor insulation is particularly important. Good floor insulation helps to reduce heat flow through the floor into air-conditioned buildings.

Ori-Floor is an ideal thermal insulation material for this application because it has:

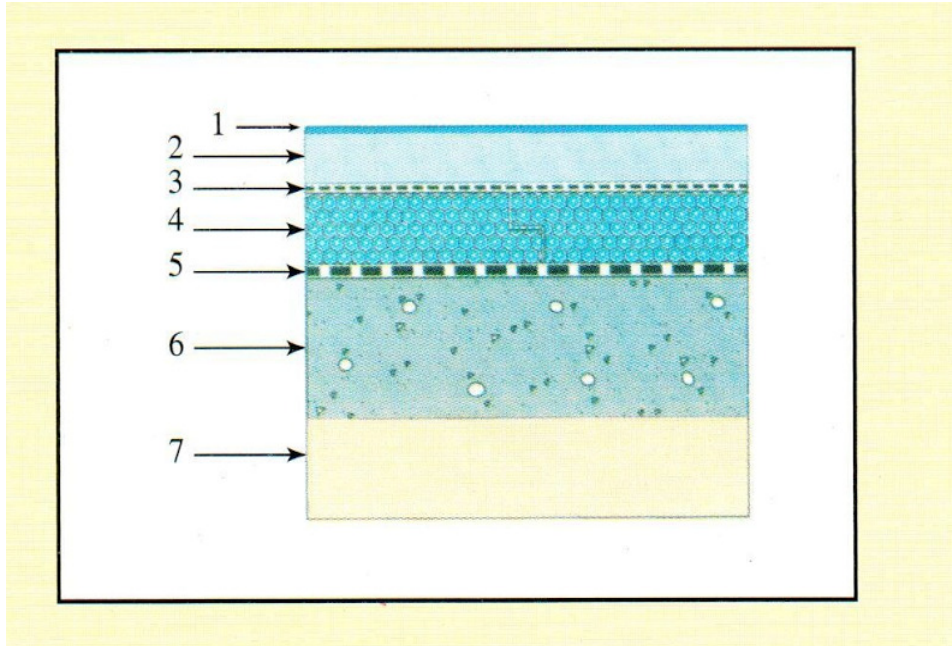
- High compressive strength
- High resistance to water absorption and moisture penetration
- Low thermal conductivity

Ori-Floor boards can be used as a working slab:



1. Floor finish
2. Concrete screed
3. Concrete slab
4. Damp-proof membrane, if required (e.g. polyethylene sheet)
- 5. Ori-Floor** boards, loose laid
6. Soil (well compacted)

Ori-Styro or Ori-Floor boards can also be laid above the concrete slab:



1. Floor finish
2. Concrete screed
3. Vapor barrier
4. **Ori-Floor boards** loose laid
5. Damp proof membrane (e.g. polyethylene sheet)
6. Concrete slab
7. Soil (well compacted)

Special floor applications

Special floor applications cover cold store and parking deck floors. **ORIFOAM** have designed **Ori-Floor** products with specific compressive strength to suit each application and loading criteria. Please consult Orifoam (Oriental Polystyrene sales office for your requirements.