

# INSOFOAM

## Expanded Polystyrene Sheets For Cavity Wall Insulation

**MADE IN OMAN**



## THE PRODUCT

**INSOFOAM** wall insulation is a styrene base plastic material having a rigid white foam-like texture comprising not less than 4 to 6 million closed cells per litre. It offers a variety of unique properties never combined in any material.

**INSOFOAM** as thermal insulation and impact noise insulation is the most efficient material used in the building industry, for insulating walls, portable cabins, cold stores, Duct, partitions, expansion joints, shuttering and decorations, Floor.

Its honeycomb texture of closed cells makes it a homogeneous material with the highest thermal insulating power. It is rigid but extremely light weight: 1 to 1.5 lb/ft<sup>3</sup>. (The lightest of the plastic materials).

It can however be made heavier depending on the mechanical resistance required. It is a stable material, does not age and has low water vapour transmission. It is unaffected by acids, alkali, alcohol and sea water. It does not rot and is not attacked by rodents. It does not however withstand temperatures exceeding 90 °C.

## DESIGN CONSIDERATIONS

The most cost effective and simple way to save energy and improve thermal characteristics of a new cavity wall is to build in insulation as the wall is constructed.

The use of **INSOFOAM** wall insulation sheets leaves the architect with complete freedom of choice of material for the inner leaf including brick, dense concrete block or hollow block.

Increased thermal capacity in the walls, backed by efficient **INSOFOAM** in the cavity, means the walls can store energy whilst air-conditioning installation is operational. This energy is returned to the building or room, when the air-conditioner does not operate thereby maintaining a more even temperature and greater level of comfort.



The sheets should be ordered in sizes which fit between vertical centres of wall ties. It should be held against the inner leaf with a mortar slurry, or with mechanical fixing at 460mm centres both vertically and horizontally.