

SANDWICH INSULATION BLOCK



Our insulated blocks are manufactured with expanded polystyrene inside. This gives excellent thermal insulation (Low U-Value). The U-Value of building component (Walls, Roofs, Windows) is a measurement for heat transfer which passes between room and exterior and which must be replaced by cool air produced by air conditioners. There for a low U-Value is key to saving in A/C cost.

8" SANDWICH BLOCK SPECIFICATION:

Dimensions 400 × 200 × 200 mm

Dimensional Tolerance Category D1

Normalized Compressive Strength ≥ 7.5 N/mm²

Weight 19 Kg

1200 Kg/m³ Gross Dry Density

1.5987 (m² °C / W) R-Value

U-Value (15mm Plaster) 0.55 (W/m² °C)

BS EN 771 - BS EN 772 Standards



إدارة تسوشيد الكهرباء والماء

Electricity & Water Conservation Directorate

الاستخدام في:

شهلادً تسجيل منتج عزل حراري Registration Certificate of Thermal Insulation Product

TIP19020 Registration Date: 16/10/2019 تاريخ الإصدار: اصدرت إلى:

Al Manartain Company and Ali Alsheab Gro Issued to: Kingdom of Bahrain 8" Sandwich Block (Al Manaratain) Product Name:

Application For: Wall Manufacturer Name:

Al Manartain Company and Ali Alsheab Gro Kingdom of Bahrain 31/10/2020 اسم المصنع: Valid Until:

Product Details / تفاصل المنطقة

Sandwich Block (400X200X200mm) concrete masonry insulation block with two cavities and 75mm thick expanded polystyrene sheet between the two layers of concrete.

Concrete: 2290kg/m² / Bahrain Expanded polystyrene: 30.69kg/m³ Description Min. Thickness Sandwich Block: 200mm / Bahrain Expanded polystyrene: 75n Thermal Conductivity 0.1251W/mK 0.6255 W/m^{2 O}C

Conditions:

- The above thermal insulation product is to be used as described above, provided to U-value for the wall does not exceed 0.57 W/m²°C.

 The owner should take the necessary precautions to ensure proper storage and institute product to protect it from moisture and direct sunlight.

 The owner of this product is responsible of ensuring that the product is carried out an approved applicator, for supplying all the accessories associated with it, an consequences that may result from the use of this product.

 All documents published by the owner for the above product should not contradic thermal conductivity value stated in this certificate.

 This approval is granted for thermal insulation only. Any additional approvals / perequired should be sought from the concerned authorities.

 The TIU should not be held responsible for any consequences that may result from this product.

this product.

The TIU reserves the right in future to request additional documents and to withdraw its approval of the above if any variations are noticed.

ELECTRICITY & WATER AUTHORITY

Electricity Conservation Section





