



PVC UPSTAND

Technical Data Sheet

PRODUCT DESCRIPTION

Shams PVC upstands are manufactured from a rigid, hard, dimensionally stable and inert material, which is not affected by adverse weather conditions. PVC is highly resistant to corrosion, and PVC products can reach a service life of more than sixty years. In addition, Shams upstands are lightweight and fully recyclable.

Because PVC offers a high energy performance, Shams PVC upstands are designed with a honeycomb structure and a special internal air chamber that provide enhanced thermal insulation. This design makes the system energy-efficient and contributes to a considerable reduction in energy consumption.

Shams PVC upstands are supplied in white, with a smooth internal surface and a ribbed external surface to improve the adhesion of the waterproofing system.

They can be equipped with domes manufactured in PMMA, solid polycarbonate and Heatstop versions, as well as with the different opening systems. They are available with square and rectangular bases. **Standard height:** 150 mm.

FIRE PERFORMANCE

PVC presents very low flammability. It does not burn easily and does not sustain combustion by itself. The material is self-extinguishing, as it ceases to burn once the external source of heat has been removed. In addition, PVC is an electrical insulating material, so Shams PVC upstands provide additional safety to the installation.

Classification: Self-extinguishing.

PHYSICAL PROPERTIES

Density: 1.4 g/cm³ (ASTM D-792)

MECHANICAL PROPERTIES

- **Tensile strength:** 41 MPa (ASTM D-638)
- **Compressive strength:** Excellent (DIN 53454)
- **Impact resistance:** High (DIN 53453)
- **Flexural strength:** 48.5 MPa (ASTM D-790)
- **Impact strength IZOD 1/8"**: 7.8 kJ/m² (ASTM D-256)

- **Impact strength IZOD 1/4"**: 35.6 J/cm (ASTM D-4226)
- **Rockwell hardness:** 104 HRR (ASTM D-785)

THERMAL PROPERTIES

- **Thermal conductivity coefficient (λ):** 0.16 W/m²K
- **Thermal transmittance (U-value):** 1.4 W/m²K (ISO 10077)

CHEMICAL RESISTANCE

Resistance to chemical agents: Excellent (UNE 53-029-82)

Shams
DAYLIGHTING SOLUTIONS