



FRP UPSTAND FOR CIRCULAR DOME (fiberglass reinforced polyester)

Technical Data Sheet

PRODUCT DESCRIPTION

Shams FRP upstands for circular domes are manufactured from polyester reinforced with glass fibre (FRP). With a standard height of 150 mm, they are characterised by the high mechanical strength provided by their chemical composition. The upstands incorporate internal polyurethane foam thermal insulation.

The external surface has a rough finish that improves adhesion of the waterproofing system. The internal surface is finished with a white gel-coat, providing a smooth, hygienic and visually clean appearance inside the building.

Shams FRP upstands are available with circular bases and can be combined with Shams domes manufactured in PMMA (acrylic), solid polycarbonate and Heatstop versions, as well as with the different opening systems. The dimensions of the upstands are designed to maximise natural daylight.

PHYSICAL PROPERTIES

• **Specific weight:** 1.5 g/cm³ (DIN 53479)

MECHANICAL PROPERTIES

• **Tensile strength:** 1000 kg/cm² (DIN 53455)

• **Compressive strength:** 2000 kg/cm² (DIN 53454)

• **Flexural strength:** 1600 kg/cm² (DIN 53452)

• **Impact resistance:** 1000 cm·kg/cm² (DIN 53453)

THERMAL PROPERTIES

• **Linear thermal expansion:** 0.2×10^{-6} mm/mm·°C (DIN 53572)

• **Softening point:** 125 °C (DIN 57302)

• **Thermal conductivity:** 0.2 kcal/m·h·°C (DIN 52612)

The values shown are based on the technical data provided by the raw material supplier and correspond to tests carried out under standard conditions. Shams reserves the right to introduce modifications derived from product development and improvement.