

✔ Reflected radiation -62%

✔ -38% indoor heat build up

✔ Lower heat build up results in reduced cooling and air-conditioning costs

HEATSTOP (SOLAR-CONTROL FINISH) DOMES

Technical Data Sheet

PRODUCT DESCRIPTION

Shams HeatStop domes feature a unique and durable pearlescent pigment coating that reflects a large proportion of the incident solar radiation, especially in the infrared region of the spectrum.

Standard 3 mm thick Shams HeatStop domes are a high-technology product that ensures low heat build-up inside the spaces they illuminate while still providing uniform daylight thanks to their high light transmission.

As a result, Shams HeatStop domes contribute to a significant reduction in cooling and air-conditioning costs in warm climates. They are an essential element in the architectural design of warehouses, factories, commercial buildings, covered courtyards and any area where good natural lighting is required without excessive heat gain.

HeatStop domes have an iridescent appearance, with a bluish-reddish sheen that shifts towards green depending on the viewing angle. They are designed to be installed together with the different types of Shams upstands (PVC, FRP and galvanized steel) and with the full range of Shams opening systems.

SOLAR-CONTROL PERFORMANCE

• Reflected radiation: –62 %

• Indoor heat build-up: –38 %

• Lower heat build-up results in reduced cooling and air-conditioning costs.

FIRE CLASSIFICATION

According to the European standard UNE-EN 13501-2:2009+A1:2010, which specifies the classification of construction products and building elements based on their fire performance, Shams HeatStop domes are classified as:

Euroclass E: Combustible – high contribution to fire.

LIGHT AND MECHANICAL PERFORMANCE

• Light transmission (τD65): ≥ 40 %

• Modulus of elasticity (Et): ≥ 2900 MPa

• Tensile strength (σM): ≥ 65 MPa

• Thermal protection factor: ≤ 0.15

For cleaning, it is recommended to use a solution of neutral detergent and water.

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.