

KoolShade Solar Shading Specifications

Type : External Solar Shading / Solar Control

Colour: Fabric: (standard) Black RAL 9005

Frame: as required

Manufacturer

KoolShade Solar Shading screens are manufactured by Smartlouvre Technology Ltd, 18 The Tanneries, Brockhampton Lane, Havant, PO9 1JB Tel: +44 (0)2392 456333 info@smartlouvre.com www.smartlouvre.com

Description

KoolShade Solar Shading screens are an angle-selective product, installed externally to glazing for optimum performance to stop solar heat gain. The polyester powder coated, woven, bronze alloy material contains up to 700 paper thin micro louvres per metre, only 1.25mm wide and each angled at 17° and tensioned in aluminium framing. The screens are customised and easily installed as Original Equipment or Retrofit and provide numerous benefits.

Key Performance Indicators

Solar Shading

Solar Glare Protection

Solar Heat Gain Protection

Colour Rendering Index (CRI)

Visual Contact with Outside

Daylight Utilisation

Natural Ventilation

Privacy

Load Bearing

Insect & Pest Protection

Energy Saving

Return on Investment (ROI)

Fire Resistance

Fire/Heat Attenuation

Hurricane Proof

Wind Load

Longevity

Maintenance

Screen Mounted Vertically

100% for sun angles above 45°

100% for sun angles above 45°

100% (externally fitted)

100%

Class 4

Class 4

80% Free Air Flow

100% inward vision block at angles =>45°

200 kgs (in horizontal plane). EN 1932: 2013

Exclusion of any body > 1.2mm

68% Reduction in daily cooling loads (LBNL)

38% annual HVAC savings (LBNL)

50% HVAC Original Equipment reduction

Class A1/A2-s1,d0: BS EN 13501-1:2007+A1:2009

49.4% Compliant up to BAL-40

(40kW/m² incident irradiance)

100 mph (164 kph) (BRE)

<14.65 kgf / sq mtr (<3lbs per sq ft) (ASHRAE)

+40 years

Almost maintenance free

Technical Data

Light Transmittance

Solar Transmittance

Solar Absorption

Solar Reflectance

% Absorbed Heat Dispersal

g tot

UV Transmittance:

U-Value

Tv 51.5%

Ts 0%

As 97%

Rs 3%

Ahd 100%

g tot 0.00 - 0.40 (glazing system dependant)

UV 51.5%

2.84 w/m²K

0.50 Btu's (US)

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Product Construction

Fabric	Alloy: Bronze. Weft C220 Warp C655
Extrusions	Alloy: Aluminium EN AW-6063 T6
Fittings	Alloy: Stainless Steel
Weight	Screen: (typical)1.2 m x 1.5m) 5 kgs
Paint	Polyester Powder Coated

Sizes 1800 x 3000 (maximum width x drop)

Installation Static Direct
Lift in Lift Out
Hinged
Lateral/Vertical Sliding
Method 3m® VHB® Dual Lock®
(no mechanical penetration to window frames or cladding)
Mechanical to suit (if permitted by construction)

Environment Recyclable Fabric 100%