

MicroLouvre Solar Shading Specifications

Type : MicroLouvre External Screens

Colour: Fabric: (standard) Black RAL 9005

Frame: as required

Manufacturer

MicroLouvre 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

MicroLouvre 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

	Screen Mounted Vertically
Solar Shading	100% for sun angles above 45°
Solar Glare Protection	100% for sun angles above 45°
Solar Heat Gain Protection	100% (externally fitted)
Colour Rendering Index (CRI)	100%
Visual Contact with Outside	Class 4
Daylight Utilisation	Class 4
Natural Ventilation	80% Free Air Flow
Privacy	100% inward vision block at angles =>45°
Load Bearing	200 kgs (in horizontal plane). EN 1932: 2013
Insect & Pest Protection	Exclusion of any body > 1.2mm
Energy Saving	68% Reduction in daily cooling loads (LBNL)
Return on Investment (ROI)	38% annual HVAC savings (LBNL) 50% HVAC Original Equipment reduction
Fire Resistance	Class A1/A2-s1,d0: BS EN 13501-1:2007+A1:2009
Fire / Heat Attenuation	49.4% Compliant up to BAL-40 (40kW/m2 incident irradiance)
Hurricane Proof	100 mph (164 kph) (BRE)
Wind Load	<14.65 kgf / sq mtr (<3lbs per sq ft) (ASHRAE)
Longevity	+40 years
Maintenance	Almost maintenance free

Technical Data

Light Transmittance	Tv	51.5%
Solar Transmittance	Ts	0%
Solar Absorption	As	97%
Solar Reflectance	Rs	3%
% Absorbed Heat Dispersal	Ahd	100%
g tot (EN Ref Glazing C)	g tot	0.00 - 0.40 (glazing system dependant)
UV Transmittance:	UV	51.5%
U-Value		2.84 w/m²K 0.50 Btu's (US)

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%

All dimensions, angles and weights are nominal. Smartlouvre Technology Ltd. reserves the right to change the technical data;