

MicroLouvre™ Metal Fabrics Specification

Type : MicroLouvre™ Metal Fabrics K700-17

Colour: Natural Bronze (Uncoated) or a standard Smooth Matt Black RAL 9005

Manufacturer

MicroLouvre™ Metal Fabrics are manufactured by Smartlouvre Technology Ltd, 18 The Tanneries, Brockhampton Lane, Havant, PO9 1JB Tel: +44 (0)2392 456333 Email: info@smartlouvre.com Website: www.smartlouvre.com

Description

MicroLouvre™ Metal Fabrics are polyester powder coated, woven, copper bronze alloy material contains up to 700 paper thin micro louvres per metre, only 1.25mm wide and each angled at 17°.

Weft Wire (*louvre*)

Pre-mill (<i>pre-flattening</i>)		
Alloy	CuZn15 (C230)	Spring Bright
Diameter	Die Size	0.455mm (0.0179")
Mechanical Properties	Tensile	675.7MPa (98 KSI)
	Elongation	2.1%

Warp Wire

Alloy	CuSi3Mn (C655)	Annealed Bright
Diameter	Die Size	0.256mm (0.0101")
Mechanical properties	Yield	172.4 - 241.3MPa (25-35 KSI)
	Tensile	465.4MPa (67.5 KSI)
	Elongation	46.0%

Dimensions of MicroLouvre™ Metal Fabric

Woven Fabric (*uncoated*)

Weft (<i>each louvre</i>)	Width	1.22mm (0.048")
	Thickness	0.13mm (0.005")
	Louvre pitch	1.50mm (0.059")
	Louvre count	17 louvres per 25.4mm (1")
	Louvre angle	17° from horizontal (<i>vertically mounted</i>)
	Louvre cut off angle	45°

Warp

Diameter	0.26mm (0.0101")
Spacing	12.7mm (0.50")
Woven fabric thickness	1.50mm (0.059") overall knot thickness

Weight

per Square Metre	1.0 kg (2.20 lb)
per Square Foot	0.093 kg (0.20 lb)

Woven Fabric (*coated – MN204E PPC*)

Weft (<i>each louvre</i>)	Width	1.25mm (0.049")
	Thickness	0.30mm (0.011")
	Louvre pitch	1.50mm (0.059")
	Louvre count	17 louvres per 25.4mm (1")
	Louvre angle	17° from horizontal (<i>vertically mounted</i>)
	Louvre cut off angle	45°

Warp

Diameter	0.31mm (0.0122")
Spacing	12.7mm (0.50")
Woven fabric thickness	1.55mm (0.061") overall knot thickness

Weight

per Square Metre	1.1 kg (2.43 lb)
per Square Foot	0.102 kg (0.23 lb)

Clear Open Area (COA) / Free Air Passage Openness Factor

By Volume	80%
By Area	0.67

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