

# 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](mailto:info@smartlouvre.com) Website: [www.smartlouvre.com](http://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	CuZn10 (C220)	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