

SCOPE FOR ELECTROMAGNETIC SHIELDING, ELECTRIC ROOM

Scope for MEP contractor and subcontractor for shielding ELECTROMAGNETIC FIELDS, from 5 Hz to 50 kHz.

Supply and installation of shielding system, referred to as SOLEMI-iron Superflex[®], 0.6 mm THICK FLEXIBLE METAL FABRIC, MADE IN A WARP AND WOOF PATTERN, PROTECTED FROM CORROSION, ELECTRICALLY ISOLATED WITH FIBERGLASS-REINFORCED POLYPROPYLENE FILM, 250 µm thick, INSTALLED in compliance with international standards (IEC EN 61000-4-8, WHO, etc.) SOLEMI SuperFlex[®] does not require any additional conductive elements, unless **required by the shield's working plan**.

The installation includes every fastening element necessary to hand over the work fully finished and tested.

Thickness: 0.60 / 1.30 mm. Weight: 3.60 / 7.20 kg / m².

Turnkey supply is provided in full and includes:

design and electromagnetic impact analysis with Certified software EFC400 (margin of error +/- 1.4%); architectural survey; production and customization of the goods; delivery to construction site; installation.

GUARANTEE FOR 20 YEARS.



SOLEMI SuperFlex[®] has transformed the engineering of shielding systems. Indeed, its guaranteed performance shows a high shielding efficiency on all three components of a magnetic field.

It is installed directly on the surfaces with wall plugs, nails, double-sided tape, glue, resins, etc. In case corners or curved surfaces have to be shielded SOLEMI SuperFlex[®] will have to be appropriately shaped by hand with the aid of a straight edge. On the floor the material should preferably be installed under the screed, option made possible by the fact that the material is protected against corrosion by a polypropylene film. The magnetic continuity is guaranteed by the installation "side by side" of the various strips making the shield or by overlapping the strips slightly. Various shielding thicknesses can be used, from 0.6 mm (one layer) up to 1.8 mm (three layers).

Choice of configuration***

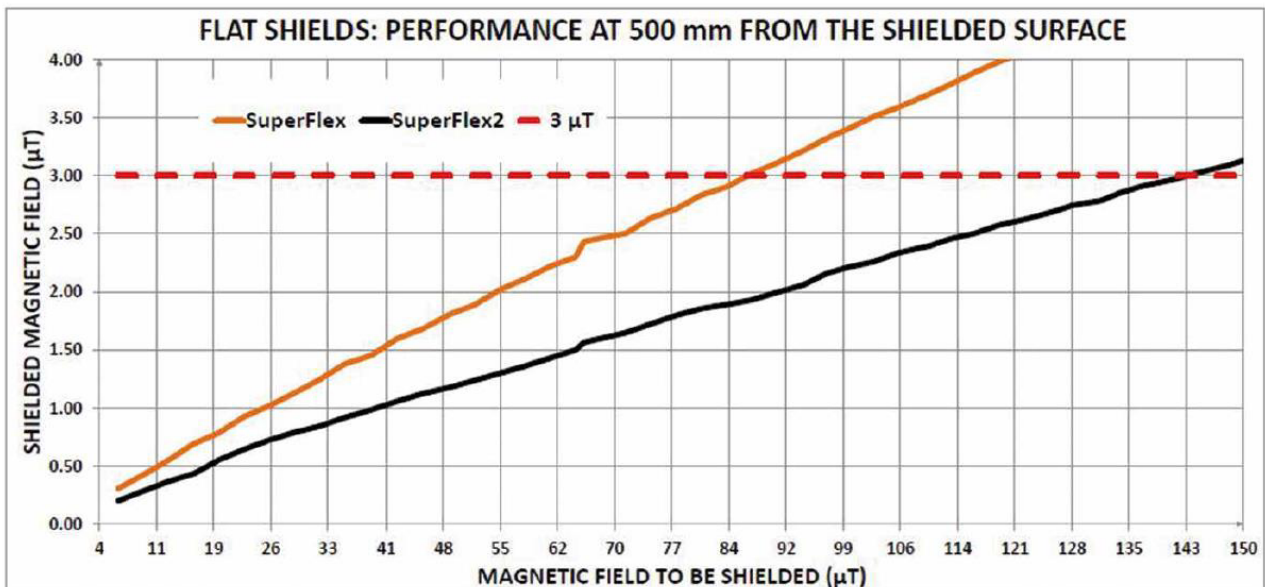


TABLE OF THE VALUES SHOWN IN THE GRAPH IN µT											
OPEN SPACE INDUCTION	3.2	6.4	9.6	12.9	16.1	19.3	22.5	25.7	28.9	32.1	35.3
SuperFlex	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4
SuperFlex2	0.1	0.2	0.3	0.4	0.4	0.6	0.6	0.7	0.8	0.8	0.9
OPEN SPACE INDUCTION	38.7	41.9	45.1	48.8	51.8	55.0	58.2	61.5	64.7	65.9	71.2
SuperFlex	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5
SuperFlex2	1.0	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6
OPEN SPACE INDUCTION	74.4	77.6	80.8	84.0	87.3	90.5	93.7	96.8	99.7	102.9	106.1
SuperFlex	2.6	2.7	2.8	2.9	CHANGE OF CONFIGURATION						
SuperFlex2	1.7	1.8	1.9	1.9	1.9	2.0	2.1	2.2	2.2	2.3	2.3
OPEN SPACE INDUCTION	109.9	112.6	115.8	118.6	122.3	125.7	128.3	131.9	134.5	137.2	141.3
SuperFlex	CHANGE OF CONFIGURATION										
SuperFlex2	2.4	2.5	2.5	2.6	2.6	2.7	2.7	2.8	2.9	2.9	3.0

*** average values, source: SOLEMI lab

Supply: Rolls	Length: 24.5 m	Width: 642 mm	Weight: 3.6 kg/m ²
Minimum bending radius: 50 mm thickness 0.6 mm			
Protected from corrosion and electrically insulated with the appropriate plastic film			
Attenuation, one layer: see choice of configuration page 31		Attenuation, two layers: see choice of configuration page 31	
Saturation: Data not available		Relative permeability μ : Data not available	
Loss of efficiency due to mechanical deformation: max. 2 dB			
*Maximum operating temperature: 550°C (**70°C or 158°F) *Without any protective film/**With standard protective film			