

SPECIFICATION FOR M1300-100A ELECTRICAL STEEL FOR MAGNETIC FIELD SHIELDING



European EMC Products Ltd

High permeability non grain orientated electrical steel for reducing and containing stray electromagnetic fields (EMF) from power frequency fields (50/60 Hz) and DC fields from MRI (Magnetic Resonance Imaging) magnets.

Designation		Fully processed electrical steel M1300-100A		
Magnetic properties				
Specific total loss				
Grade	Thickness mm	Conventional density	Specific total loss at J=1.5T, 50 Hz	
			Guaranteed max, W/kg	Typical W/kg
M1300-100A	1.00mm	7.80	13	10.5
Permeability				
Grade	Relative permeability at J = 1.5T, 50 Hz,		J at H = 2500 A/m	J at H = 5000 A/m
	Typical		Typical	Typical
M1300-100A	1150		1.62	1.72
Physical properties				
Hardness (typical) HV5 = 125				

Installation

Total required thickness for each application is built up from pre-laminated panels either 3 mm (3 sheets) or 2 mm (2 sheets) thick and 1 m x 1m or 500 mm x 500mm each.

The sheets in pre-laminated panels are offset by 20 mm to ensure the best possible magnetic continuity between sheets when installed. This ensures the completed installation maintains the same performance as the individual panels.

Panels can also be supplied folded to 90° for installations requiring screening in more than 1 plane.

This material offers the best combination of availability, ease of installation and cost for large scale on site magnetic shielding projects.

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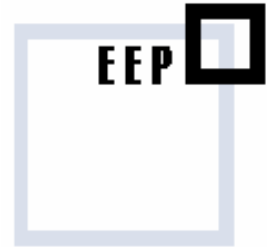
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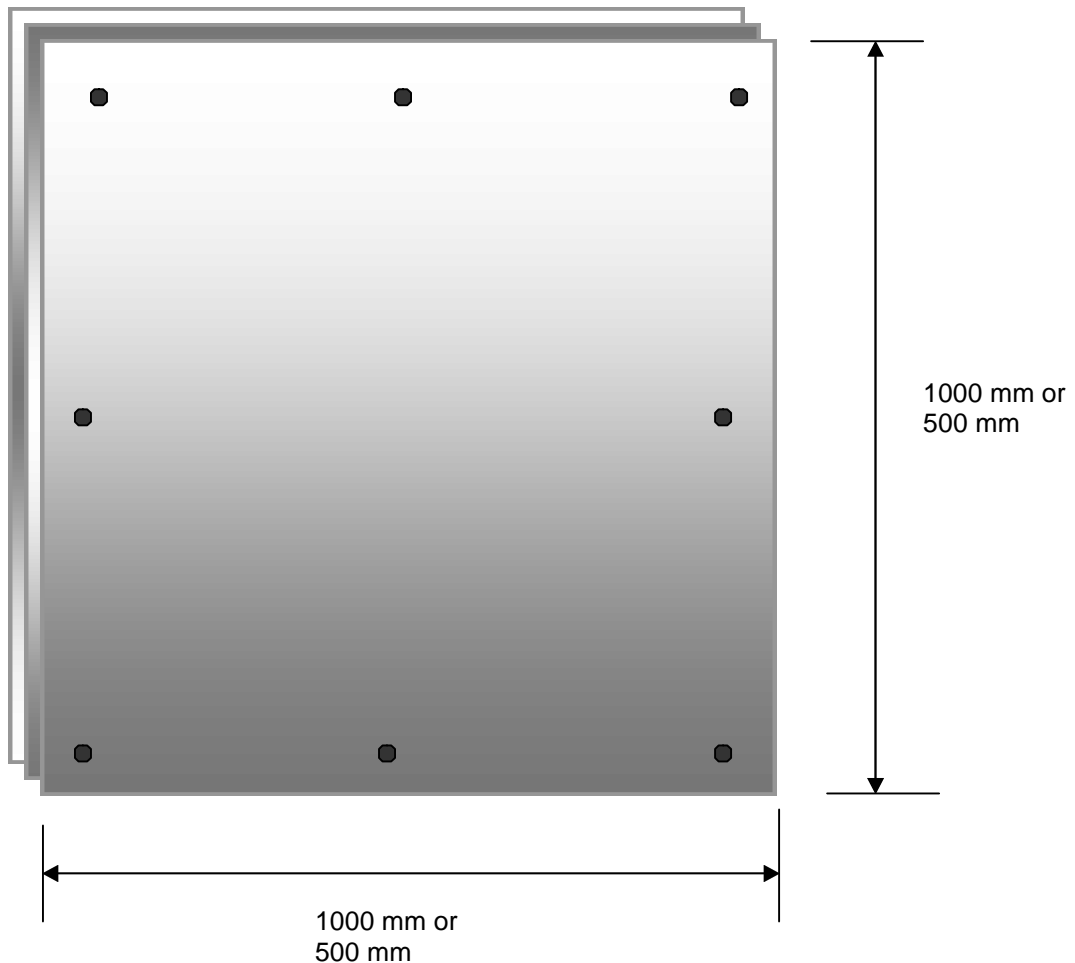
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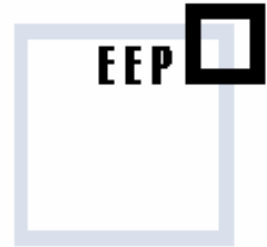
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Magnetic shield panel

Three 1 mm thick M1300-100A sheets with 20mm off set per sheet, spot welded together.

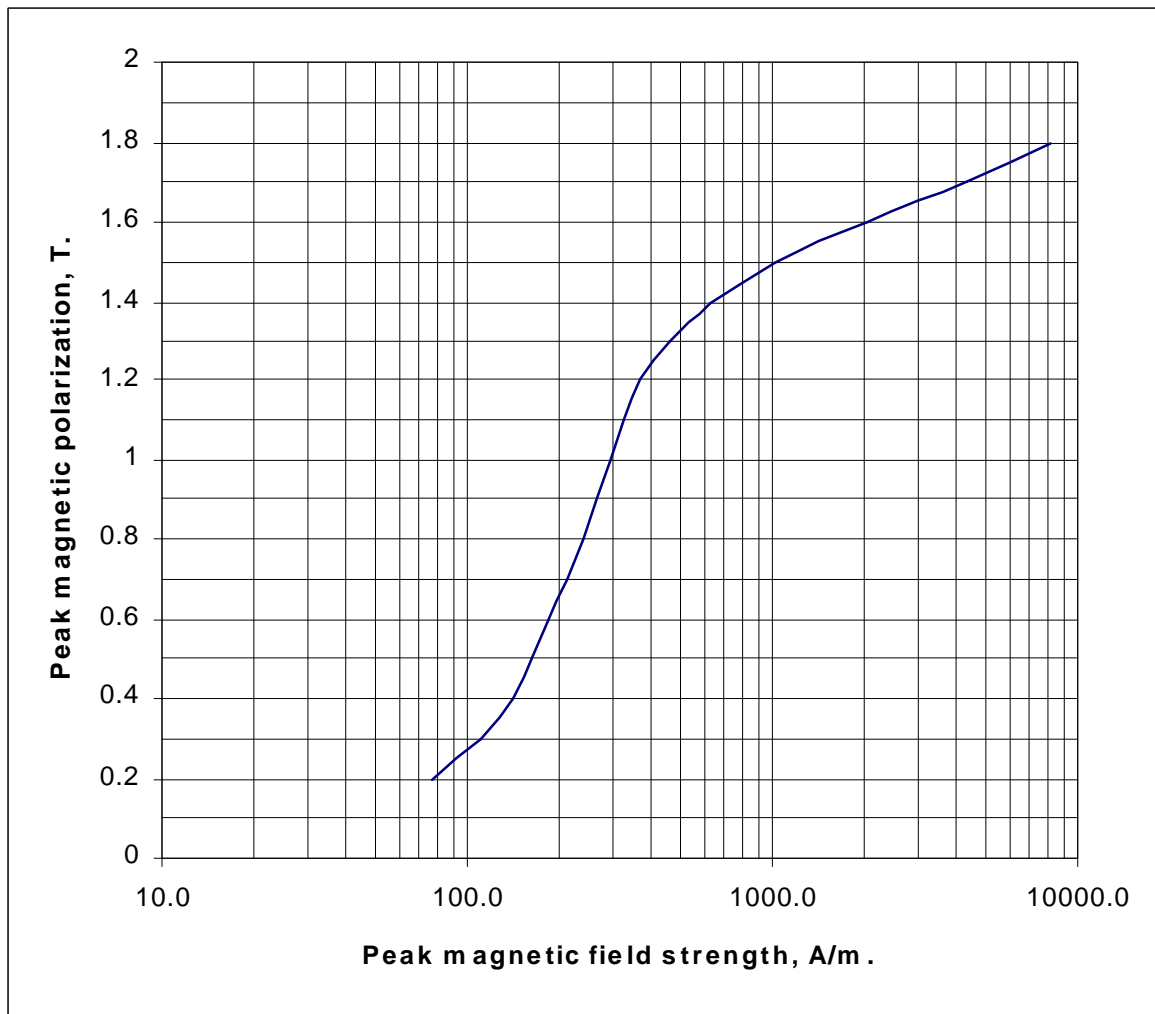


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Non-oriented fully processed electrical steel, M1300-100A
A.C. magnetization curve
Peak magnetic polarization vs. peak magnetic field strength
Frequency = 50 Hz



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