

G-iron ArmoFlex

material de apantallamiento magnético



El material de apantallamiento electromagnético G-iron ArmoFlex se basa en una aleación especial de alta permeabilidad magnética, sellado en un matriz de aluminio para proporcionar protección contra el fuego (el material está certificado ignífugo según ISO 13501-1 2019). La alta permeabilidad magnética actúa para desviar las líneas de fuerza magnética hacia fuera del espacio a proteger, por proveer un “camino de baja resistencia” para el campo magnético. La estructura tejida de las tiras metálicas resulta en una eficiencia de blindaje más alta que los materiales de blindaje magnético en forma de chapa

Se fija el G-iron ArmoFlex fácilmente a la superficie mediante una pistola de clavos (aire comprimido) tipo Hilti, o con tornillos y tacos



Se corta a medida con tijeras corta chapa



Se dobla fácilmente para formar esquinas



G-iron ArmoFlex: especificaciones técnicas

Formato	rollos de 25 m de largo (16 m²) ancho de rollo 642 mm, peso 67,4 kg/rollo
Grosor	0,65 mm
Peso	4,18 kg/m²
Eficacia en una capa	88% @ f = 50 Hz, B = 100 μT
Eficacia en dos capas	97% @ f = 50 Hz, B = 100 μT
Saturación magnética	>2 T
Radio mínimo de curvatura	50 mm
Capa protectora	150 μm, dos lados
Temperatura máxima	550 °C

G-iron ArmoFlex®

High permeability shielding metal fabric

Supply modality:	Roll			
Packaging:	OSB/ISPM 15 crate for 06 rolls (size 68x97x82 cm / kg 65) OSB/ISPM 15 crate for 12 rolls (size 128x97x82 cm / kg 95)			
Roll weight:	67.4 kg			
Roll length:	25 m			
Roll width:	642 mm			
Weight +/- 0.01 kg/m²:	n° 1 layer = 4.18 Kg/m ² n° 2 layers = 8.36 Kg/m ²			
Thickness +/- 0.3 mm:	n° 1 layer = 1.3 mm n° 2 layers = 2.6 mm			
Minimum radius of curvature:	50 mm			
Protective coating:	Aluminum tape 150 µm thick on both sides			
Frequency f=50Hz 100 µT reduction factor in contact with the shielding system, 1st layer:	Vertical polarization		Horizontal polarization	
	<i>attenuation percentage</i>	<i>attenuation ratio</i>	<i>attenuation percentage</i>	<i>attenuation ratio</i>
	88 %	8.23	89 %	8.4
Frequency f=50Hz 100 µT reduction factor in contact with the shielding system, 2nd layer:	Vertical polarization		Horizontal polarization	
	<i>attenuation percentage</i>	<i>attenuation ratio</i>	<i>attenuation percentage</i>	<i>attenuation ratio</i>
	97 %	35.05	97 %	33.82
Storage:	<u>Store in a covered, dry place, protected from any atmospheric agent.</u> It is recommended to open the packing only at the moment of the shielding system installation.			

NOTE:

Always handle while wearing protective gloves and never cut **G-iron ArmoFlex®** with sanders, disks or any method that could heat up the material.

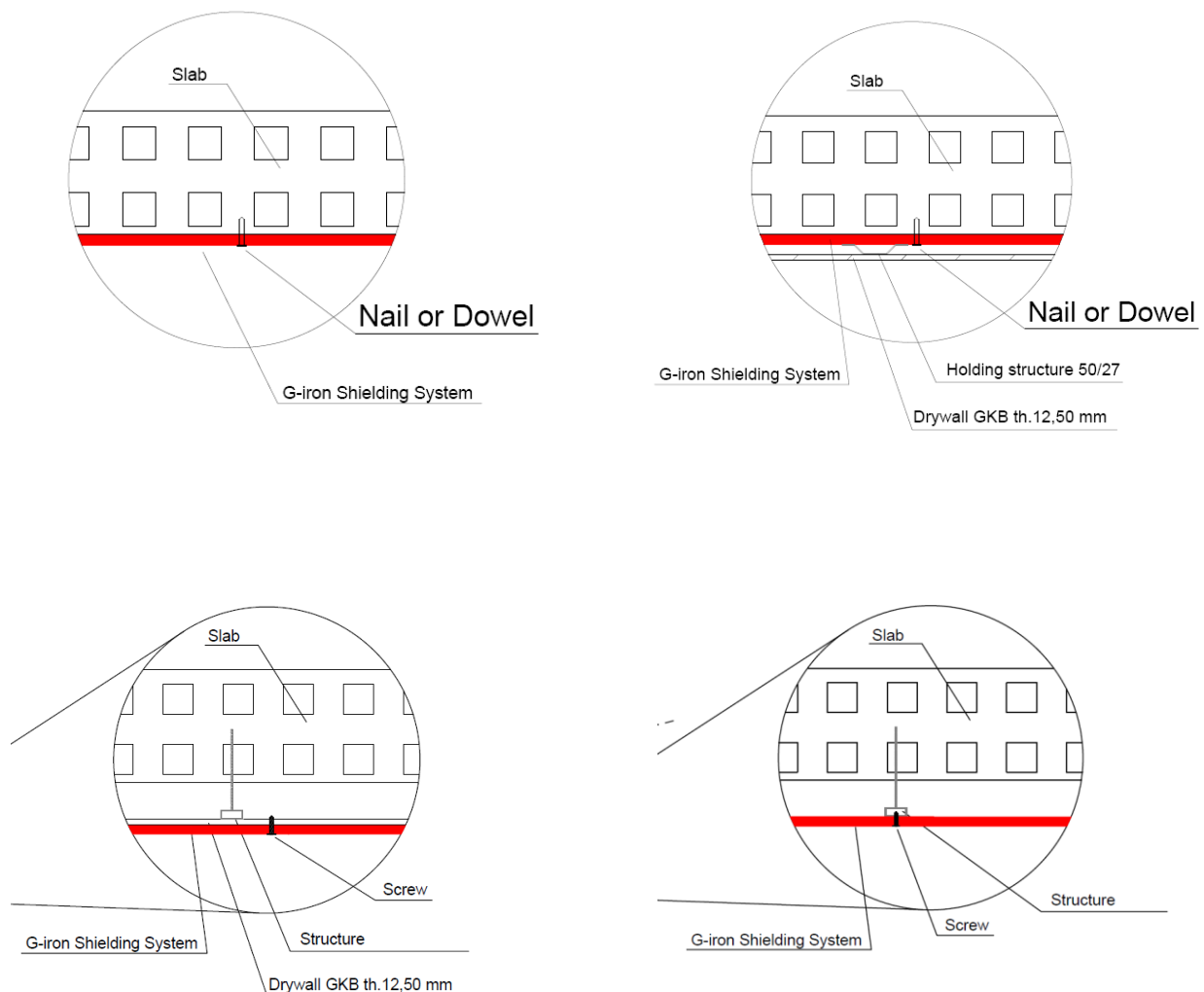
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1) PLACEMENT

G-iron ArmoFlex® is directly placed on the desired surfaces through a suitable furniture hardware (plugs, nails, screws, double-sided tape, glues, resins, etc..) chosen considering the substratum characteristics.

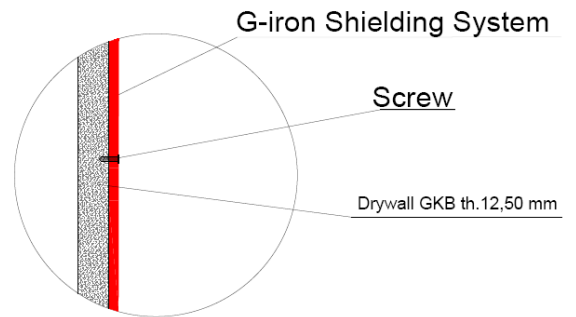
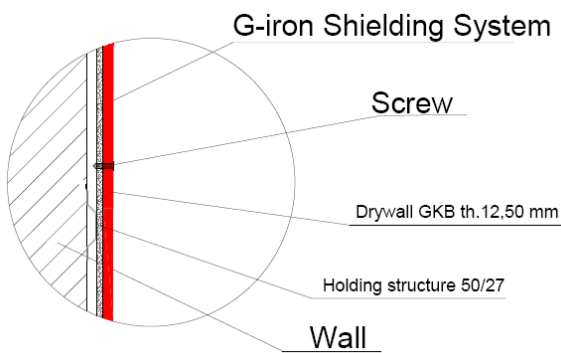
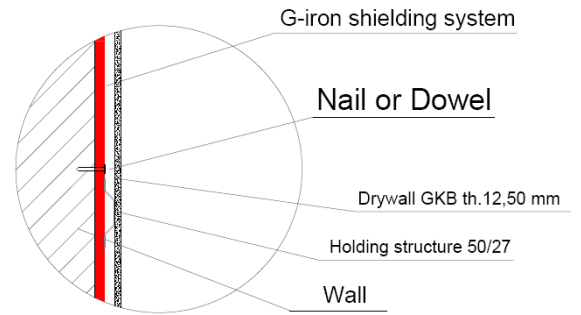
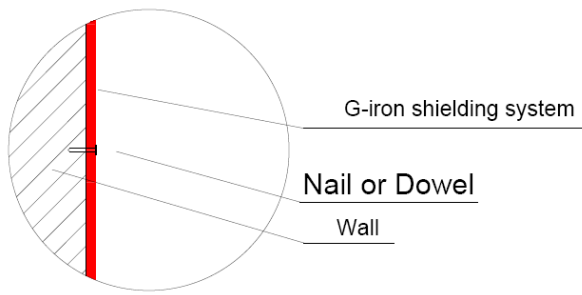
The material has to be placed by overlapping the extremities by 40 mm. In specific cases, it can be positioned by pairing the borders together. If there are angles or curvatures, the shielding material will be shaped manually with the help of a straight ruler.

- Soffit

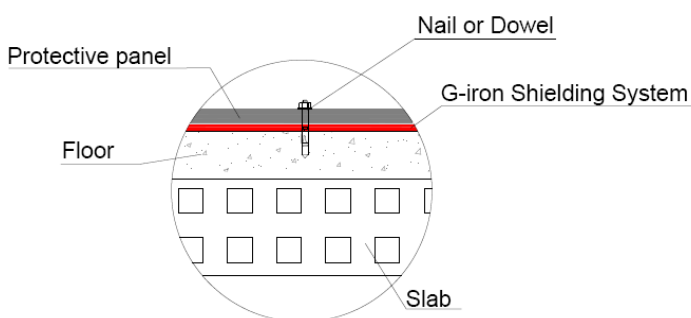


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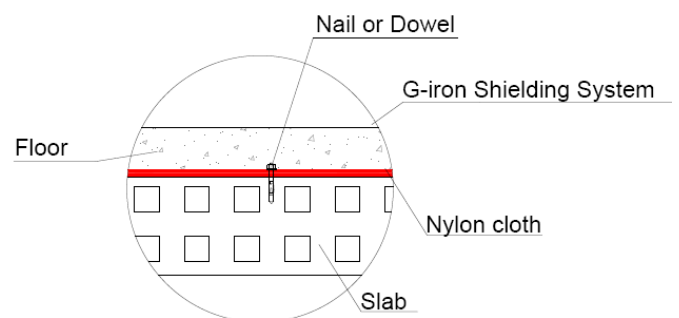
- Wall



- Flooring



- Subfloor



If earthing is required according to (country's) Regulations/Electric code, the shielding material can be easily grounded.

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Fig. 1 - G-iron ArmoFlex®



Fig. 2 - Band of ArmoFlex®

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2) REACTION TO FIRE CLASSIFICATION



LAB N° 0021 L

RAPPORTO DI CLASSIFICAZIONE N. 373480 CLASSIFICATION REPORT No. 373480

Cliente / Customer

G-iron S.r.l. Unipersonale
Via Giacomo Puccini, 122 - 52100 AREZZO (AR) - Italia

Oggetto / Item*

**tessuto metallico rivestito da nastro adesivo in alluminio
denominato "G-iron ArmoFlex"**
*metal fabric covered with aluminium adhesive tape named
"G-iron ArmoFlex"*

Attività / Activity



**classificazione al fuoco dei prodotti e degli elementi
da costruzione - parte 1: classificazione in base ai risultati
delle prove di reazione al fuoco
secondo la norma UNI EN 13501-1:2019**
*fire classification of construction products and building elements -
part 1: classification using data from reaction to fire tests
in accordance with standard UNI EN 13501-1:2019*

Risultati / Results

Classificazione
Classification
A1

(*) secondo le dichiarazioni del cliente.
according to that stated by the customer.

Bellaria-Igea Marina - Italia, 27 luglio 2020
Bellaria-Igea Marina - Italy, 27 July 2020

L'Amministratore Delegato
Chief Executive Officer

Commessa:

Order:
84223

Luogo dell'attività:

Activity site:
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Indice

Indice	Pagina
Descrizione dell'oggetto classificato*	2
Riferimenti normativi	2
Rapporti e risultati in supporto a questa classificazione	3
Classificazione e campo di applicazione	4
Contents	Page
Description of classified item*	2
Normative references	2
Reports and results in support of this classification	3
Classification and field of application	4

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Dott. Ing. Giombattista Traina

Responsabile del Laboratorio di Reazione al Fuoco: /

Head of Reaction to Fire Laboratory:

Dott. Ing. Giombattista Traina

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Pagina 1 di 5 / Page 1 of 5

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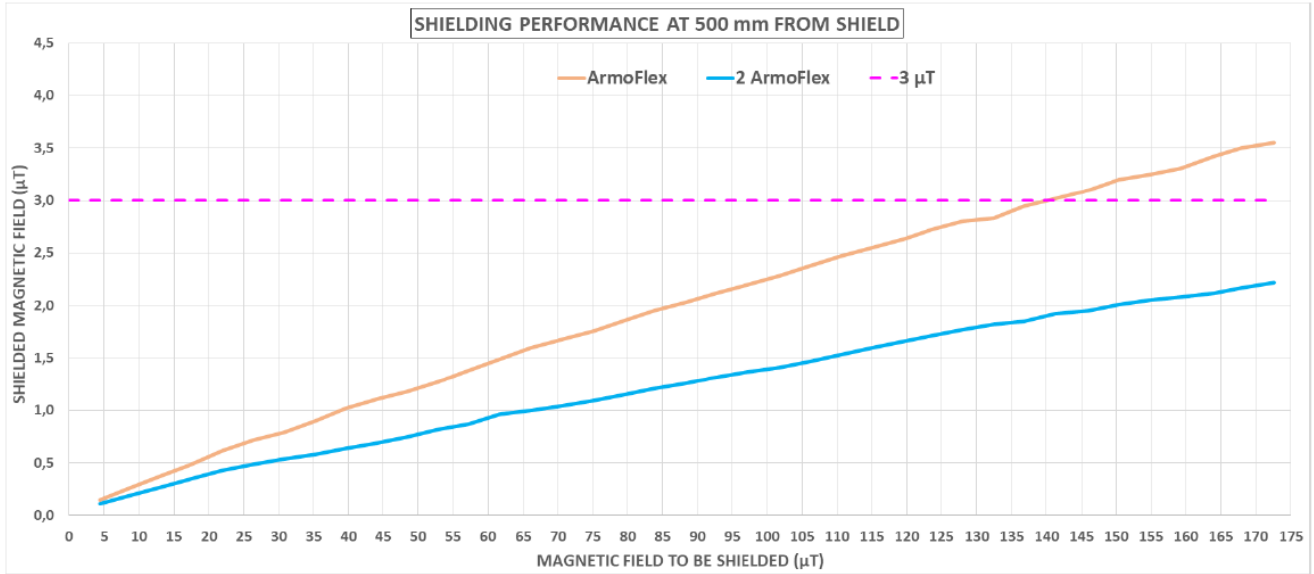
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3) SHIELDING PERFORMANCE

A distance of 500mm from the screen is chosen for the graph representation of the shielding efficiency, in conformity with CEI 211-6 regulation.



*** average values, G-iron® Lab

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4) TENDER SPECIFICATIONS

Supply of the shielding system **G-iron ArmoFlex®** for the magnetic fields mitigation from 0 Hz to 150 kHz. It is a flexible metallic fabric 1.3 mm (+/- 0.3 mm) thick with extremely high, made in warp and weft, protected from corrosion and coated by 150 µm thick aluminum on both sides. It has A1 Reaction to Fire classification level.

Planning and placing are aimed at respecting the Italian D.P.C.M. 8/7/2003 or the Client's requested target, tested in conformity with the regulations (i.e., CEI 211-6 and following D.M. May 2008), without adding any conductive elements, except for technical executive needs.

The installation includes all the fixing elements or necessary accessory to finish the work in each of its components and tested before the construction site release.

Additional services on request:

- 🕒 Electromagnetic impact analysis through the certified software EFC400 (+/-1.4% margin of error)
- 🕒 Architectural survey
- 🕒 Delivery at place
- 🕒 Installation
- 🕒 Readings on site before and/or after the installation of the shielding system
- 🕒 Final commissioning

Shielding efficiency guaranteed for 20 years.

Brand: **G-iron ArmoFlex®**

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