

# iZiFON



Sound Absorption - Thermal Insulation. Polyester fiber slabs & rolls

**iZiFON : New generation, revolutionary product, made of 100% polyester fibre.**



iZiFON

iZiFON consists of fine, long, polyester fibres of various deniers thermally bonded without the use of any chemical additive in its production. Is widely recognized for its energy conserving and sound absorption / thermal insulation properties. Produced by industry certified with OEKO-TEX®.

TECHNICAL CHARACTERISTICS

<b>Dimensions:</b>	120 x 60 cm 12 m x 60 cm
<b>Thickness:</b>	30 or 50 mm (other dimensions on request) (Tolerance range $\pm 0,5$ cm)
<b>Density:</b>	20 or 38 Kg/m <sup>3</sup> (for slabs) 10 or 12 Kg/m <sup>3</sup> (for rolls) (Tolerance range $\pm 10\%$ )

#### Thermal insulation

**Thermal conductivity:**  $\lambda_{10} = 0.039$  W/m.K (34.3 Kg/m<sup>3</sup>)

**Order example:** iZiFON-25/50 (density/thickness)

#### Fire reaction

Since there are no chemical components involved in the manufacturing process at any time, it has self-extinguishing characteristics according to FMVSS 302:2011 (Certified by Bureau Veritas)

#### Stability

iZiFON is not affected by ultraviolet radiation neither by bacterial, microorganisms, insects etc. It has long time durability and does not need frequent replacements.  
Temperature application range - 40 °C +80°C.

#### Flexibility

It is particularly lightweight, flexible and easy to assemble.

#### Eco friendly

Some types of iZiFON are made from recycled materials and it can also be recycled.

#### Friendly for humans and the environment

iZiFON is totally hygienic and non-allergic. It can be installed with bare hands and does not leave any itchy feeling to the installers. No gloves are required for handling it and it is 100% non-carcinogenic, thereby making it very user friendly. It is proof and odorless. Certified according to ISO 16000: Indoor air quality, VOC & Formaldehyde **free** by CSI-SpA Italy.

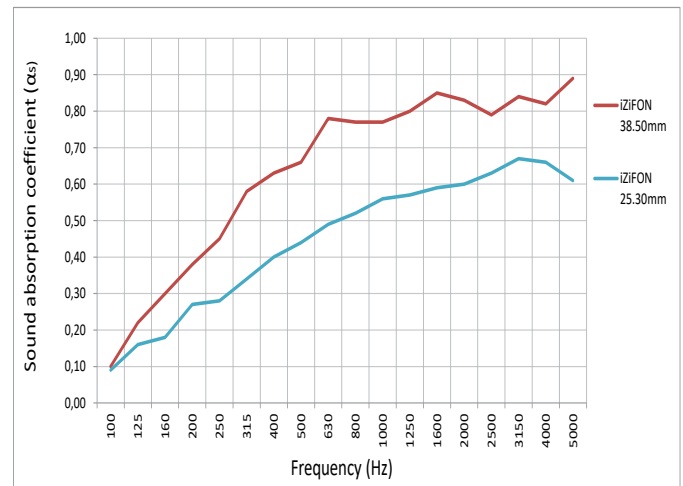
APPLICATIONS

iZiFON is versatile. It can be applied over or under false ceilings, under concrete roofs, between gypsum board layers, etc.

iZiFON offers:

- Thermal and sound insulation between walls.
- Sound absorption for room acoustics.
- Thermal and sound insulation in air ducts.

#### Sound absorption properties



Sound absorption coefficient,  $\alpha_s$  per frequency, according to ISO 354-85 measured in a laboratory reverberation chamber.

Weighted sound absorption coefficient  $\alpha_w = 0.90$

according to ISO 11654

(for thickness 50mm and density 34.3 kg/m<sup>3</sup>)

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## iZiFON Slabs & Rolls



TYPE	DIMENSIONS (cm)	THICKNESS (mm)	NOMINAL DENSITY (kg/m <sup>3</sup> )
iZiFON S 25/50 (Slabs)	120 x 60	50	20
iZiFON S 25/30 (Slabs)	120 x 60	30	20
iZiFON S 40/50 (Slabs)	120 x 60	50	38
iZiFON S 40/30 (Slabs)	120 x 60	30	38
iZiFON R 12/50 (Rolls)	1200 x 60	50	12
iZiFON R 10/30 (Rolls)	1200 x 60	30	10

(Tolerance range  $\pm 10\%$ )

**Thermal conductivity**  $\lambda$  (W/m.K): iZiFON S40  $\lambda=0.039$ , iZiFON S25  $\lambda=0.0442$   
(certified measurement by TSE Institute)

### Typical applications



Floating ceiling application with iZifon



Floating dry-wall application with iZifon

Our company applies the Quality Management System ISO 9001.2008 & Environmental Management System ISO 14001.2004