



GEOTEC® S30 - S45

FIRE PROTECTIVE BOARDS



Ventilation



Smoke extraction



Fire protection services



Carbon protection reinforcement



Fire-protection up to 2 hours



Silicate-free plaster-based product

FIRE-PROTECTIVE BOARDS

GEOTEC® S30 and S45 fire resistant boards are mainly made of glass reinforced gypsum (GRG), which gives them excellent mechanical resistance. These boards are specially designed with rebates to allow for interlocking and easy assembly.

Advantages

- ✓ Silicate-free product
- ✓ Possible application of water-based acrylic paint
- ✓ Easy cutting with a circular saw, sabre saw or handsaw
- ✓ Possible palletization of the products by ducts
- ✓ Wide range of sizes
- ✓ Possible application of a water-repellent treatment that does not modify the fire resistance performance
- ✓ Meets environmental, health and safety standards

Installations



Glue GEOCOL® + screw
[≤ 2500 x 1500 mm] *



Mixture of GEOPLÂTRE® N plaster and sisal fiber
[≤ 2500 x 2000 mm] *



Glue GEOCOL® + staples
[≤ 1250 x 1000 mm] *

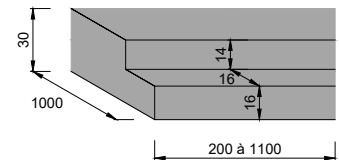
* limit of the internal section of the duct

Applications

- Ventilation and smoke extraction ducts
- Fire protection services (various pipes, gas pipes, medical fluids, etc.)
- Cable tray protection
- Carbon protection reinforcement

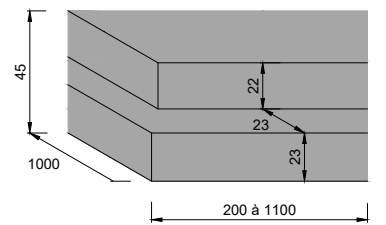
GEOTEC®S30

Thickness : 30 mm
EI 60



GEOTEC®S45

Thickness : 45 mm
EI 120



Certifications



Classification A1 according to EN 13501-1



ETA 18/0343 based on EAD 350142-00-1106



Product classified A+ (VOC emission to indoor air)



Certified product EXCELL green zone



Eco 1 certified product by Eco-bau

Dimensions

| Thickness (mm) | EI S | Boards dimensions* (l x L) (mm) | Dry weight (kg/m ²) | Rabbeted sides |
|----------------|----------|---------------------------------|---------------------------------|----------------|
| 30 | 30 - 60 | 200 to 1100 x 1000 | 24 | 2 |
| 45 | 90 - 120 | | 36 | 4 |

E = Flame and hot gas tightness

I = Thermal insulation

S = Smoke-tight

*In 50 mm steps

Characteristics

| | |
|--|-------------------------------------|
| Nominal density (± 8 %) | ± 790 kg/m ³ |
| Bending strength | ≥ 1,3 MPa |
| Compressive strength | ≥ 3 MPa |
| pH value | ± 8,5 |
| Thermal conductivity coeff (λ at 20°C) | 0,106 W/m.K |
| Resistance to water vapour diffusion (μ) | ± 3 for standard boards |
| | ± 6 for water-repellent boards |
| Roughness factor (ε) | 0,05 mm |
| Cold sealing class | B |
| Acoustic attenuation Rw (C ; Ctr) | 29 (-2 ; -2) dB for thickness 30 mm |
| | 31 (-1 ; -2) dB for thickness 45 mm |
| Dimensional tolerance | ± 5 mm |
| Thickness tolerance | ± 2 mm |
| Colour | White |
| Appearance | Smooth |
| Cutting and machinability | Good |

* The data in this table are average values, given for information only. If certain properties are essential for some particular application, we should preferably be consulted.

Finishes

Installed with smooth faces inwards to improve airflow or outwards for a clean, finished look.

Transport and storage

Transport and store on a flat, protected surface (out of water).

For optimum preservation, remove the plastic film before storing to avoid any traces of mould.



Classification and tests

✓ Certified according to the fire resistance test standards:

EN 1366-1

EN 1366-5

EN 1366-8

✓ Certified according to the fire resistance classification standards:

EN 13501-1

EN 13501-2

EN 13501-3

EN 13501-4

Technical documents available

- ☑ Technical data sheet
- ☑ Safety data sheet (SDS)
- ☑ Environmental and health declaration form
- ☑ CE certificate
- ☑ Declaration of Performance (DoP)
- ☑ ETA report 18/0343 based on EAD 350142-00-1106

Items codes

| Reference | Water repellent | Name | Boards / Pallet | Gross weight / Pallet |
|-----------|-----------------|---|-----------------|-----------------------|
| S300003 | S30H003 | Fire resistant board 30 mm - 0,20 x 1,00 ml | 200 | 1030 kg |
| S300004 | S30H004 | Fire resistant board 30 mm - 0,25 x 1,00 ml | 160 | 1020 kg |
| S300005 | S30H005 | Fire resistant board 30 mm - 0,30 x 1,00 ml | 120 | 900 kg |
| S300006 | S30H006 | Fire resistant board 30 mm - 0,35 x 1,00 ml | 80 | 700 kg |
| S300007 | S30H007 | Fire resistant board 30 mm - 0,40 x 1,00 ml | 80 | 800 kg |
| S300008 | S30H008 | Fire resistant board 30 mm - 0,45 x 1,00 ml | 80 | 900 kg |
| S300009 | S30H009 | Fire resistant board 30 mm - 0,50 x 1,00 ml | 80 | 995 kg |
| S300010 | S30H010 | Fire resistant board 30 mm - 0,55 x 1,00 ml | 40 | 550 kg |

Items codes

| Reference | Water repellent | Name | Boards / Pallet | Gross weight / Pallet |
|-----------|-----------------|---|-----------------|-----------------------|
| S300011 | S30H011 | Fire resistant board 30 mm - 0,60 x 1,00 ml | 40 | 600 kg |
| S300012 | S30H012 | Fire resistant board 30 mm - 0,65 x 1,00 ml | 40 | 650 kg |
| S300013 | S30H013 | Fire resistant board 30 mm - 0,70 x 1,00 ml | 40 | 700 kg |
| S300014 | S30H014 | Fire resistant board 30 mm - 0,75 x 1,00 ml | 40 | 750 kg |
| S300015 | S30H015 | Fire resistant board 30 mm - 0,80 x 1,00 ml | 40 | 800 kg |
| S300016 | S30H016 | Fire resistant board 30 mm - 0,85 x 1,00 ml | 40 | 850 kg |
| S300017 | S30H017 | Fire resistant board 30 mm - 0,90 x 1,00 ml | 40 | 900 kg |
| S300018 | S30H018 | Fire resistant board 30 mm - 0,95 x 1,00 ml | 40 | 950 kg |
| S300019 | S30H019 | Fire resistant board 30 mm - 1,00 x 1,00 ml | 40 | 1000 kg |
| S300020 | S30H020 | Fire resistant board 30 mm - 1,05 x 1,00 ml | 40 | 1050 kg |
| S300021 | S30H021 | Fire resistant board 30 mm - 1,10 x 1,00 ml | 40 | 1100 kg |
| | | | | |
| S450003 | S45H003 | Fire resistant board 45 mm - 0,20 x 1,00 ml | 150 | 1125 kg |
| S450004 | S45H004 | Fire resistant board 45 mm - 0,25 x 1,00 ml | 120 | 1120 kg |
| S450005 | S45H005 | Fire resistant board 45 mm - 0,30 x 1,00 ml | 90 | 1010 kg |
| S450006 | S45H006 | Fire resistant board 45 mm - 0,35 x 1,00 ml | 60 | 795 kg |
| S450007 | S45H007 | Fire resistant board 45 mm - 0,40 x 1,00 ml | 60 | 895 kg |
| S450008 | S45H008 | Fire resistant board 45 mm - 0,45 x 1,00 ml | 60 | 1010 kg |
| S450009 | S45H009 | Fire resistant board 45 mm - 0,50 x 1,00 ml | 60 | 1125 kg |
| S450010 | S45H010 | Fire resistant board 45 mm - 0,55 x 1,00 ml | 30 | 615 kg |
| S450011 | S45H011 | Fire resistant board 45 mm - 0,60 x 1,00 ml | 30 | 675 kg |
| S450012 | S45H012 | Fire resistant board 45 mm - 0,65 x 1,00 ml | 30 | 730 kg |
| S450013 | S45H013 | Fire resistant board 45 mm - 0,70 x 1,00 ml | 30 | 785 kg |
| S450014 | S45H014 | Fire resistant board 45 mm - 0,70 x 1,00 ml Inverted rebate | 30 | 785 kg |
| S450015 | S45H015 | Fire resistant board 45 mm - 0,75 x 1,00 ml | 30 | 840 kg |
| S450016 | S45H016 | Fire resistant board 45 mm - 0,80 x 1,00 ml | 30 | 900 kg |
| S450017 | S45H017 | Fire resistant board 45 mm - 0,85 x 1,00 ml | 30 | 950 kg |
| S450018 | S45H018 | Fire resistant board 45 mm - 0,90 x 1,00 ml | 30 | 1010 kg |
| S450019 | S45H019 | Fire resistant board 45 mm - 0,95 x 1,00 ml | 30 | 1065 kg |
| S450020 | S45H020 | Fire resistant board 45 mm - 1,00 x 1,00 ml | 30 | 1125 kg |
| S450021 | S45H021 | Fire resistant board 45 mm - 1,05 x 1,00 ml | 30 | 1180 kg |
| S450022 | S45H022 | Fire resistant board 45 mm - 1,10 x 1,00 ml | 30 | 1235 kg |

Geostaff has collected the data in this sheet with all due care and reserves the right to modify the properties of the products without prior notice. The user of these data will be responsible at all times for their correct application. In case of uncertainty or doubt, we advise you to contact Geostaff in order to verify if these data correspond to the required application.

GEOTEC®
S30 - S45

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