



### **COMPANY**



- France (Head office)
- Belgium (R&D)
- Active in 15 countries (& counting)

### **EXPERTISE**



- 35 years of experience
- CE label
- Declaration of performance

### **SOLUTIONS**



- 40 size-references of fire resistant boards
- Custom-made boards without cut-outs
- 3 mounting options
- 100 % Natural GlassReinforcedGypsum products
- No waste tailor-made deliveries
- EI (S) 60-120-180-240







### **CONCEPT & NORMS**

Geostaff has certified solutions that were tested according to the European test standards as indicated below:



FIRE RATED VENTILATION DUCTS/SHAFTS



FIRE RATED SMOKE EVACUATION DUCTS/SHAFTS



FIRE RATED PROTECTION OF SERVICES/TECHNIQUES



**FIRE RATED INSPECTION HATCHES** 

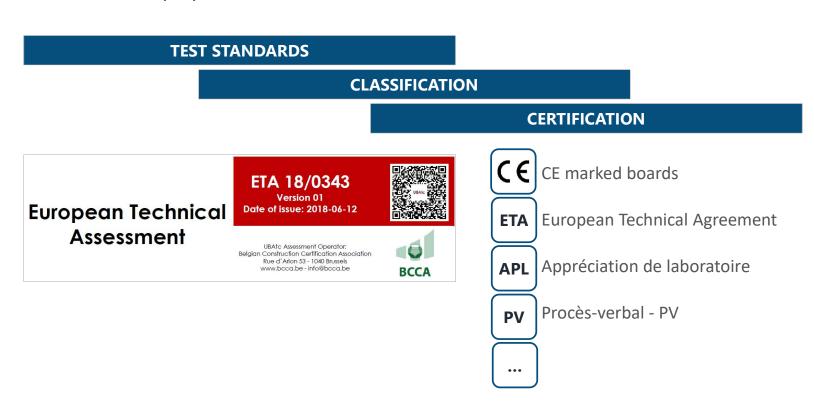


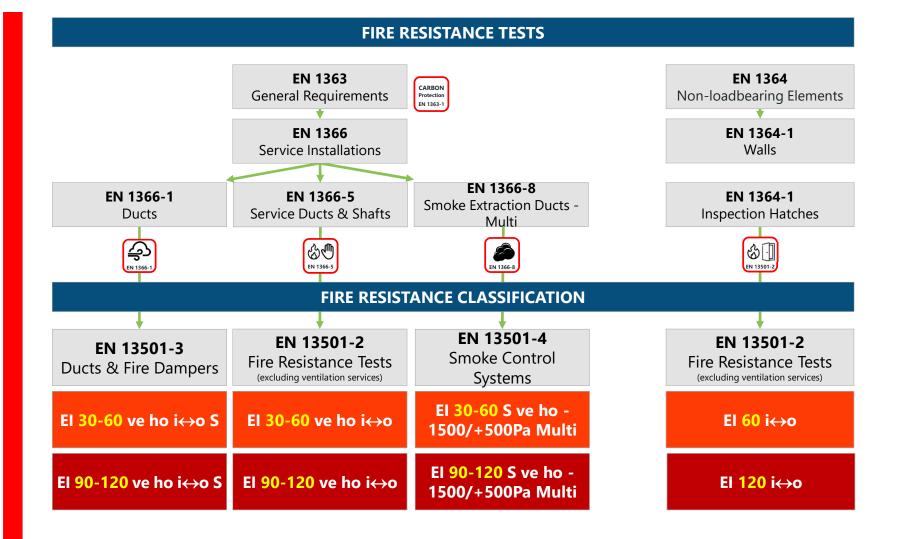
PROTECTION OF CARBON REINFORCEMENT OF CONCRETE STRUCTURES



### **CONCEPT & NORMS**

The Geostaff boards are CE marked, guaranteeing the quality of the boards. Installations need to be carried out in accordance with the installation instructions in order to guarantee a fire resistance properaties needed.

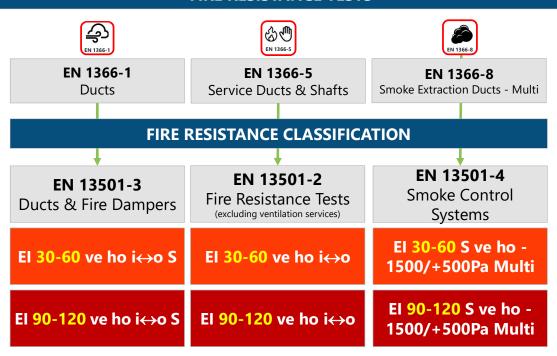






#### **FIRE RESISTANCE TESTS**





In function of the application, the correct fire resistance criteria need to be respected.

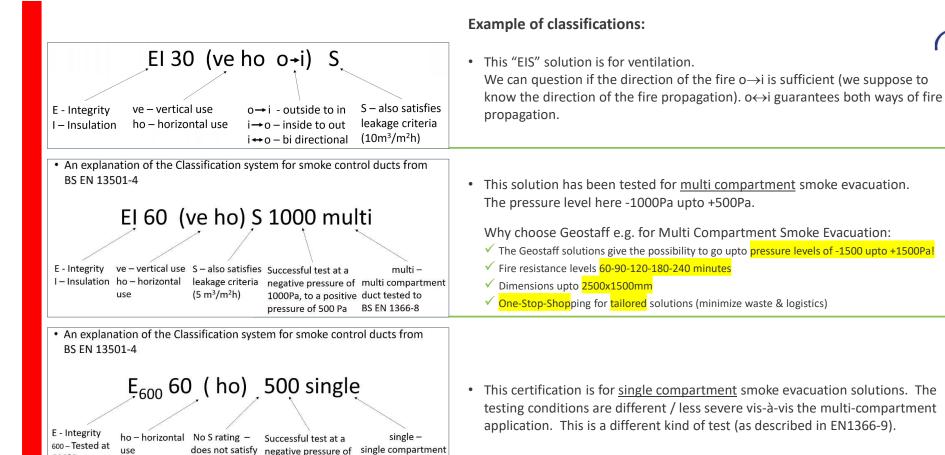
#### **CRITERIA:**

**E** = Integrity (no flames/hot gasses)

- I = Insulation
- **S** = Smoke leakage the S-criterium is compulsory in ventilation and/or smoke evacuation applications because we it needs to prevent the propagation of both fire <u>and smoke</u>.

For Smoke extraction ducts and dampers/shutters, two types are possible

- a) Single  $\rightarrow$  refers to 'single compartment smoke evacuation' the smoke comes from <u>one</u> compartment only
- **b)** Multi → the smoke can originate from multiple compartments (! For high rise buildings)



duct tested to

BS EN 1366-9

leakage criteria 500Pa, to a positive

pressure of 500 Pa

 $(5 \text{ m}^3/\text{m}^2\text{h})$ 

600°C

300°C

Also covers

Fire dampers/shutters for multi-compartment smoke evacuation are tested according to EN1366-10. They are installed in EN1366-8 ductwork.

Example of the classification of e.g. the smoke shutter Kamouflage MP: El 120 (ved i n o) S 1500 C10000 AA multi



## **INSTALLATION METHODS**

Geostaff has multiple products available. For the Cyprus market the *GEOTEC* boards give you the highest flexibility. These boards can be installed by 'gluing & screwing', but also stapling or fiber reinforced plaster can be used.



**GLUE & SCREW** 





**GLUE & STAPLE** 



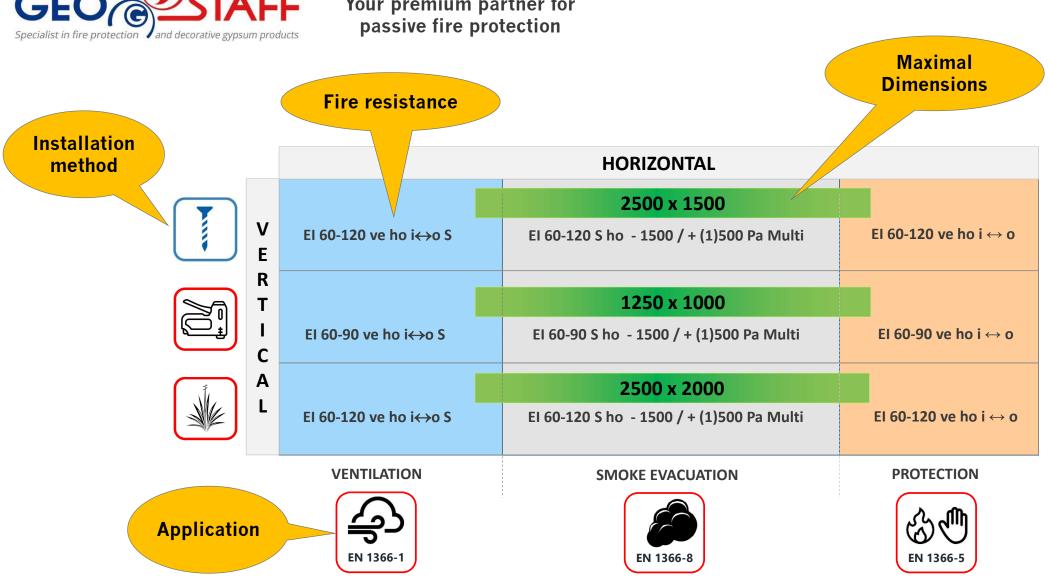
GLUE & FIBRE CAULKING







# Your premium partner for



## Why choose GEOSTAFF?

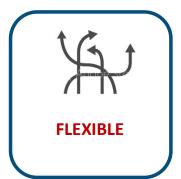


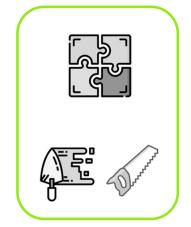




















## **GEOSTAFF SYSTEM - ONLINE CALCULATION-TOOL**

The dummy-proof online calculation tool enables you to calculate duct sections rapidly. Why waste days of calculation if you can calculate a duct section in 30 seconds with a full Bill of Material and an installation sketch?

INPUT TABLE										
Reference	N°	Fire resistance	Туре	Direc- -tion	Width (mm)	Height / Depth (mm)	Plenum or Floor to floor height	Surface (m²)	(m)	Changes of direction
Geostaff Academy	1	EI 120 S	Smoke extraction	Н	600	500	300 mm	26,00	10,00	0
							Total surface :	26,00		A

Duct n°1 Geostaff Academy El 120 S GEOTEC®S Ep 45mm Smoke extraction Horizontal 600mm x 500mm int. 700mm x 600mm ext. Plenum 300mm Length 10,00ml Number of suspension cradles: 11 Surface: 26,00m²	Horizontal Boards - 20 Boards GEOTEC®S de 700mm  Vertical Boards - 20 Boards GEOTEC®S de 550mm  - 10 U-plaster (PFU0011) GEOFLAM®A in 1 m - 30 ½ Shells GEOFLAM®A in 1 m - 22 Brass anchors Ø 8 - 22 Zinc-plated nuts Ø 8 - 22 Zinc-plated washers Ø 8 - 22 Threaded rods Ø 8 in 1 m - 4 U Channel Steel 21x41x21 in 3 m
	- 360 Wood screws Ø 5 mm - L = 90 - 2,60 bags of GEOCOL®





## **GEOSTAFF** - Getting launched



- TECHNICAL DOCUMENTATION
- TECHNICAL SUPPORT
- ACCESS ONLINE CALCULATION TOOL
- GEOSTAFF ACADEMY training session on concept product system practices
- 2021: BIM-modeling
- ON SITE TRAINING
- DIGITAL ANIMATIONS
- MORE COMING UP!











