



Calcium Silicate Board

by

HFLACHS

*Der Platten- und Türen-Profi
The Panels- and Door-Professional*

Core material
for fire doors

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International

Core material for fire doors



Latest fire protection standards challenge the stability and durability of fire door cores like never before. Gaining the necessary approvals for insulation materials can be costly and time consuming.

H-Flachs calcium silicate board is a fire retardant core material for fire doors and has been successfully tested to EN1634 in fire door constructions and can give in excess of 90 minutes fire resistance.

The light weight, high strength and stability of the material mean that it is a superb core material for fire doors and it is classed as non-combustible Class A1 insulation (according to EN13501-1:2007 + A1:2009) H-Flachs calcium silicate board is able to withstand 1000°C - making it the safe choice for fire doors, buildings and people.

H-Flachs Calcium Silicate board as insulation in fire doors

The low thermal conductivity and the fact that H-Flachs calcium silicate board is non-combustible and temperature resistant up to 1000°C makes the product very applicable as core material in fire doors.

The compressive strength of the H-Flachs calcium silicate board stabilises the fire door and the bulk density makes it easy to handle - securing labour saving efficiency in the production as well as during installation of the fire doors.

Advantages

- Non-combustible insulation material - Class A1 material
- Tested in fire door constructions that have been approved according to EN1634 as EI230, EI260 and EI290
- Bulk density 225, 250 and 300 kg/m³
- Compressive strength of 2.8 MPa
- Temperature resistant up to 1000°C
- Thermal conductivity of 0.062 W/(m*K)



Calcium Silicate Board

Safe and easy to handle



H-Flachs calcium silicate board is not only a safe and durable choice of material for fire doors, it is also a light weight product that is easy to cut and handle using common wood working tools.

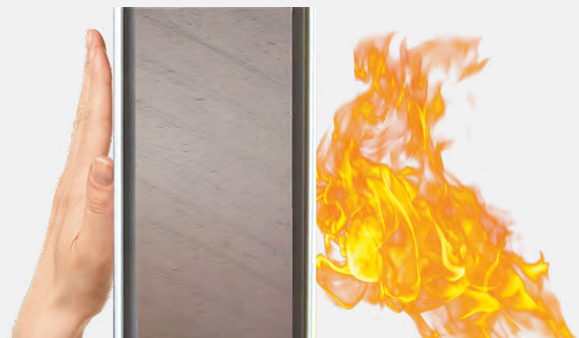
H-Flachs calcium silicate board can be delivered in four standard sizes and as custom shaped boards upon request, which makes it possible for customers to reduce the processing time and thereby simplify the production process. H-Flachs calcium silicate board does not emit hazardous dust, while being handled or cut, due to the composition of the materials used to produce it.

These factors make the product easily adaptable into all kinds of production facilities whether fully automated or handled manually.

No hazardous smoke during fire

H-Flachs calcium silicate board is a completely natural product - the composition of the material provides important properties that make the H-Flachs calcium silicate board insulation board unique.

H-Flachs calcium silicate board is a compound of quicklime, amorphous silica, wood fibre and water - the composition of these natural materials ensures that no hazardous smoke is developed during fire - making the H-Flachs calcium silicate board a both safe and healthy core material for fire doors.



Hands-on experience

H-Flachs has extensive experience in the development of fire doors. We know the challenges and opportunities of the industry in both sales and manufacturing. H-Flachs calcium silicate board has been successfully developed and is used as core material for fire doors and walls.

Product specification

Length x width [mm]	Thickness [mm]	Weight per board [kg]
1000 x 610	25; 30; 40; 50; 60; 70; 80; 90; 100	3,8 - 15,2
1220 x 1000	25; 30; 40; 50; 60; 70; 80; 90; 100	3,8 - 15,2
2040 x 1220	25; 30; 40; 50; 60	15,6 - 37,3
2440 x 1220	25; 30; 40; 50; 60	18,6 - 44,7
	Trimmed	Sanded
Length / width	+/- 2,5 mm	+/- 2,5 mm
Thickness	+/- 1,5 mm	+/- 0,3 mm



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