



FireFree ScandiBoard 850

FireFree ScandiBoard 850 is a lightweight calcium silicate board, which is tested after EN ISO 1716:2002, EN ISO 1182:2010, DIN 4102-1 and approved after the European standard EN 13501-1:2007 as non-combustible.

FireFree ScandiBoard 850 has been tested for quartz and asbestos content by The National Institute of Occupational Health, Denmark. No content of quartz or asbestos has been detected.

FireFree ScandiBoard 850 is available in thicknesses from 22 - 100 mm and can be processed to the dimension needed for a specific construction from a maximum size of 2.440x 1.220 mm. FireFree ScandiBoard 850 can be sanded on both sides on request.

Standard sizes

Length x width in mm

1.220 x 1.000

2.040 x 1.220

2.440 x 1.220

Special sizes are made to order.

And sanding on request.

Tolerances

	Trimmed	Sanded
Length/width	± 2.5 mm	± 2.5 mm
Thickness	± 1.5 mm	± 0.5 mm

Storage

The boards will be packed on pallets. Place the pallets on a smooth and dry spot and protect them against the weather.



Product profile

FireFree ScandiBoard 850 is characterized by:

- Non-combustibility
- Extremely lightweight
- Good mechanical characteristics
- Frost resistant
- Low moisture expansion and contraction
- Good thermal resistance
- Rot resistant
- Environmentally friendly
- Easy to machine and work with

Max. service temp. 1000 °C

Bulk density, dry 250 kg/m³

pH value 10,3

Compressive strength
(EN 1094-5: 1995) 2.8 MPa

Modulus of rupture
(EN 993-6: 1995) 1.7 MPa

Coefficient of reversible thermal expansion (BS 1902: section 5.3: 1990) @ 20°C-750°C (68°F-1382°F) 5.5x10⁻⁶ m/(mK)

Coefficient of moisture expansion (DTI rep.) @ 23°C 50%RH to 23°C 10%RH, 4.0x10⁻³ mm/(m%RH)

Coefficient of moisture contraction (DTI rep.) @ 23°C 50%RH to 23°C 100%RH, 0 mm/(m%RH)

Sound reduction index

Thickness 19 mm 25 dB

Thickness 38 mm 28 dB

Thickness 60 mm 30 dB

Thermal conductivity

@ 20°C 0.06 W/(m×K)

@ 200°C 0.08 W/(m×K)

@ 400°C 0.10 W/(m×K)

@ 600°C 0.12 W/(m×K)

Chemical analysis, typical

Silica SiO₂ 45%

Calcium oxide CaO 45%

Loss on ignition
1025°C (1877°F) LOI 8%

Water content 2.5%

Colour Grey

Non-combustibility tests:
EN ISO 1716:2002, EN ISO 1182:2010, DIN 4102-1 and classified after the European standard EN 13501-1:2007 as non-combustible.