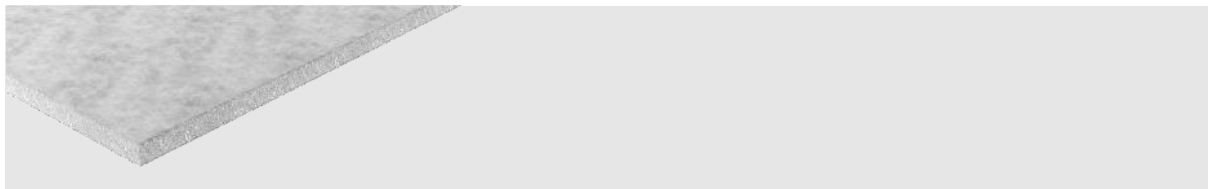


Aestuver® T Fire-protection board

Cement-bound, glass-fibre reinforced lightweight concrete boards for highest fire protection requirements in underground traffic systems



PRODUCT

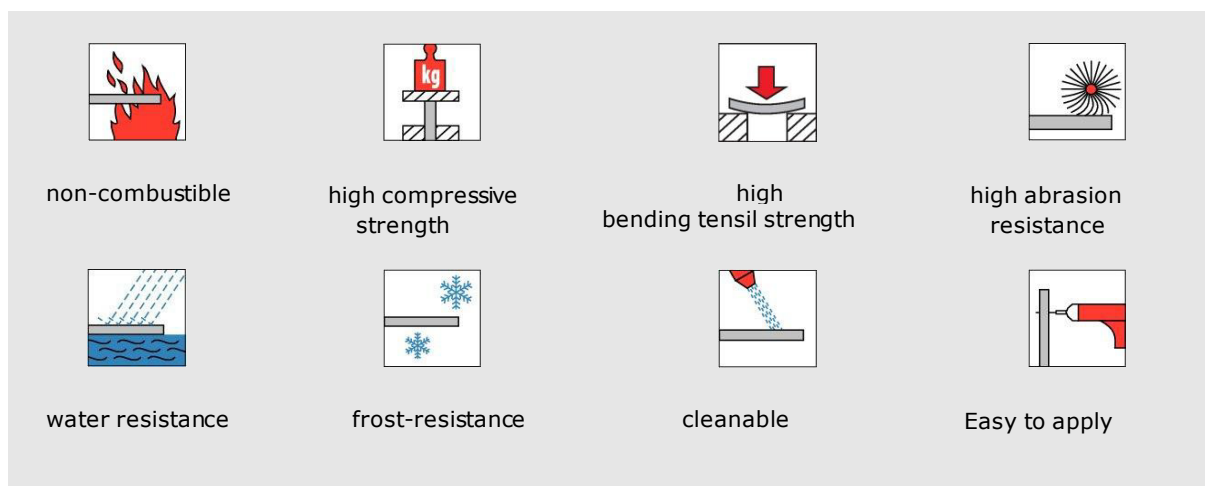
Aestuver® T fire-protection boards for underground traffic systems are cement-bound, glass-fibre reinforced lightweight concrete boards for structural fire protection. The non-combustible, purely mineral fire protection boards comply with building material class A1 according to EN 13501-1.

APPLICATION

Aestuver® T fire-protection boards can be used universally, but thanks to their proven properties, they are applicable in areas with constant or recurring moisture and frost exposure and/or high mechanical stresses

- As screwed or anchored cladding of the structural concrete to protect it against the consequences of fire exposure
- Fire dampers, doors and covers
- Smoke extraction ceilings

CHARACTERISTICS



SPECIFICATION AND INFORMATION

Approval	
European technical Assessment	ETA-15/0531
Building material class (acc. to DIN EN 13501-1)	Non.combustible, A1
Category of use in relation to weathering acc. to EAD 350142-00-1106	Type Z1, Z2, Y, X

Specification	
Density ρ_k (dry)	appx. 780-980 kg/m ³
Flexural strength (based on EN12467 \pm 10 %) ¹⁾	\geq 3,5 N/mm ²
Thermal conductivity λ_R (acc. to DIN EN 12667) ¹⁾	0,175 W/mK
expansion / shrinkage when the relative humidity changes by 30 % (20 °C) acc. to EN 318	\pm 0,15 %
Equilibrium humidity at 65 % relative humidity and 20°C air temperature DIN EN ISO 12570	appx. 7 %
Bending elasticity modulus in N/mm ² (based on EN 12467 \pm 10 % ¹⁾	\geq 2 000 N/mm ²
Compressive strength in N/mm ² (acc. to EN 789)	appx. 9 N/mm ²
Alkalinity (ph-value)	appx. 12
colour	grey ²⁾

¹⁾ Exemplary: 20 mm Aestuver® T fire protection board

²⁾ Colouring possible on request



Dimensional tolerances for compensation moisture for standard board formats	
Length, width, thickness	± 1 mm
Diagonal difference	≤ 2 mm

Board characteristics and formats				
Thickness in mm	20	25	30	35
Article number	8102002	8102502	8103002	8103502
EAN 40 0 7548...	...01103 7	...01106 8	...01107 5	...01200 3
Palletizing boards	56	46	38	32
Palletizing m ²	91,00	75,75	61,75	52,00
Palletizing ca. kg	1 590	1 615	1 590	1 555
Weight per m ² in kg (at 5% humidity)	ca.17	ca.21	ca.25	ca.29
Density ρ_k in kg/m ³ (dry ± 15%)	780	780	780	780
Dimension in mm	2.600 x 625	2.600 x 625	2.600 x 625	2.600 x 625

Other board thicknesses (up to 3 000 mm), widths (up to 1 250 mm and cuts on request

Approval

- Reaction to fire acc. To DIN EN 13501-1: non-combustible, A1
- Component classification for civil engineering structures: international
- Tunnel fire tests acc. To time-temperature curves:
 - ISO 360
 - ZTV/EBA (extended)
 - HC 180
 - HCM 180
 - RWS 180

Board storage and transport

Aestuver® T fire-protection boards are packed horizontally and delivered on pallets. They should always be stored flat on level surface. Storing them vertically can lead to deformation of the panels and damage to the edges.

As they are frost- and water-resistant, the boards can be stored outdoors. However, if further surface treatment is considered, the panels should be provided with water-repellent cover and external contamination through operation should be excluded.

Horizontal board transport is possible with lift trucks or other panel transport trolleys. Single boards must always be carried upright. Manual carrying of the boards is facilitated by tools, so-called slab lifters/carriers. If these tools are not available, the workers should wear gloves.

Recycling

Aestuver® T fire-protection boards are mineral building material without components that are hazardous to health or pollute the groundwater and can therefore be disposed of in the construction waste landfill. Aestuver® T fire-protection boards waste can be processed in building material recycling plants as an aggregate for various applications.

Waste code (EAK): 170101 (concrete)

Further notes

Our recommendations are based on extensive tests and practical experience. They do not replace guidelines, standards, approvals and applicable technical data sheets. Due to the multitude of possible influences during processing and application, we recommend always carrying out trial processing and application. No claims for compensation can be derived from the information provided. Delivery, processing and warranty for the properties assured by us shall be in accordance with our General Terms and Conditions.