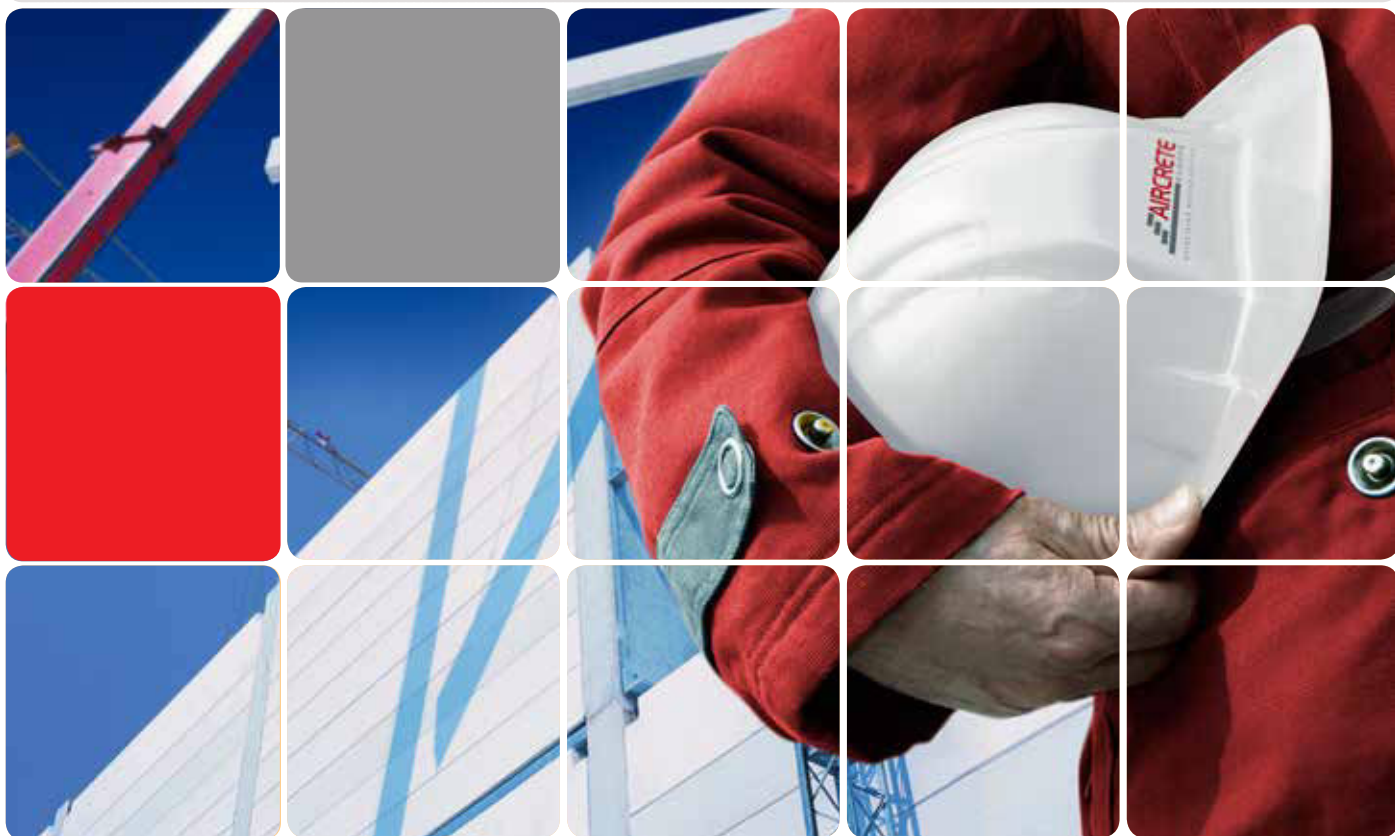


FAST
SAFE
NATURAL
ENERGY EFFICIENT
LIGHT AND STRONG



AIRCRETE | PREFAB WALL PANELS

AIRCRETE WALL PANELS

THE PERFECT
BUILDING MATERIAL

+ *VERSATILE APPLICATION*

- INDUSTRIAL
- COMMERCIAL
- SHOPPING MALLS
- WAREHOUSES

Fast, efficient and safe building is at the forefront of every project. Aircrete prefab panels are a perfect solution to construct large scale commercial and industrial buildings. They also pioneer the building materials market when it comes to practical and durable construction. From giant distribution centers to new shopping malls, Aircrete walls protect valuable goods due to their outstanding strength and low heat absorption. Therefore, the panels are also a proven firewall solution, superior to any alternative building material.

All prefab panels are structural elements which have substantial load bearing capacity due to the incorporated reinforcement. Products can be customized according to the required dimensions, density and profiling shape. With only 25% of traditional concrete panel weight, Aircrete panels allow for easy handling, reduced installation time and effective labor allocation due to their simple installation system. The SUPER SMOOTH surface of the wall panels adds to an easy and attractive finish.

AIRCRETE offers you the fastest and most economic building solution for high quality industrial projects.



ADVANTAGES OF AIRCRETE WALLS = VALUE TO CUSTOMER

- ✓ **Fast installation** and **easy workability** contribute to lower construction costs;
- ✓ **SUPER SMOOTH surface** ready for cost-effective finishing;
- ✓ Outstanding **fire protection** maximizing safety and reducing insurance costs;
- ✓ **Superior natural insulation** resulting in reduced heating/cooling costs;
- ✓ **No waste on-site** and **easy installation** as elements are prefabricated at factory level;
- ✓ **Limited CO₂ emissions** in production and transport to site thanks to light weight;
- ✓ High product **dimension accuracy** ensures exact fit on-site.

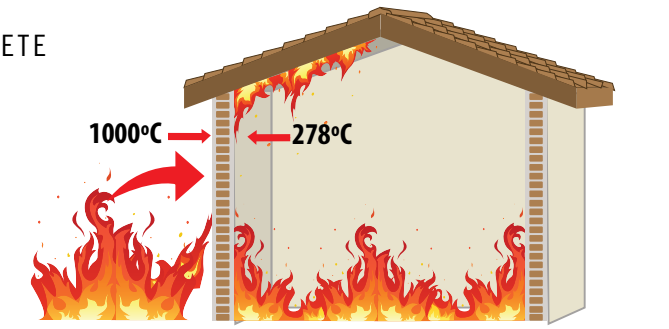


Aircrete, otherwise known as **Autoclaved Aerated Concrete (AAC)**, is a GREEN precast building material with a proven performance in Europe for more than 70 years. It is produced from basic natural raw materials such as: water, sand, cement and lime. The unique material characteristics allow for numerous advantages over conventional technologies of industrial and commercial building. Aircrete is increasingly used as a preferred building material by developers, architects and home builders worldwide.



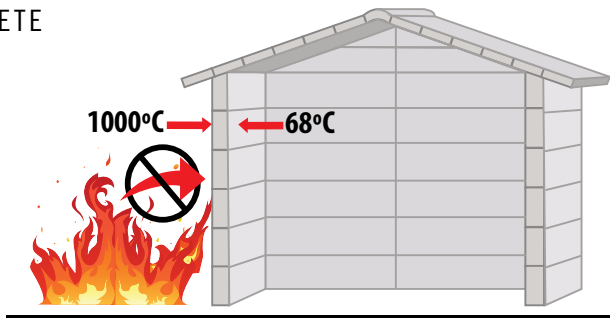
OUTSTANDING FIRE RESISTANCE

CONCRETE



Concrete - 150 mm wall thickness

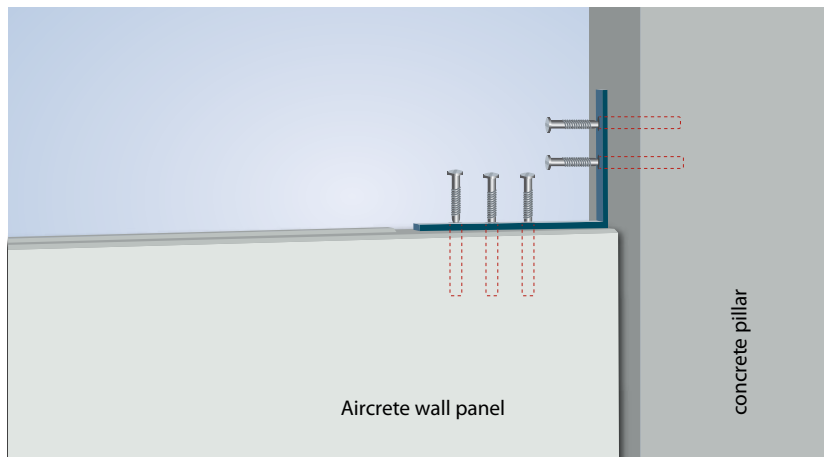
AIRCRETE



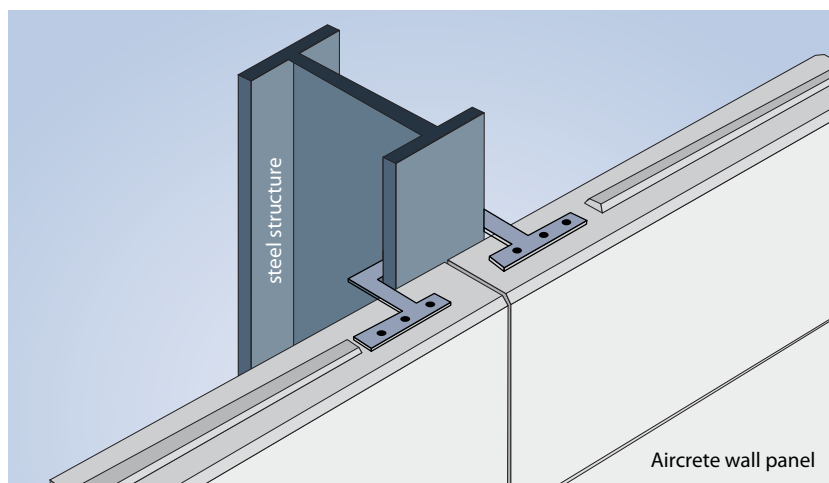
Aerated concrete - 150 mm wall thickness

EASY ON-SITE INSTALLATION

Installation on concrete structure



Installation on steel structure



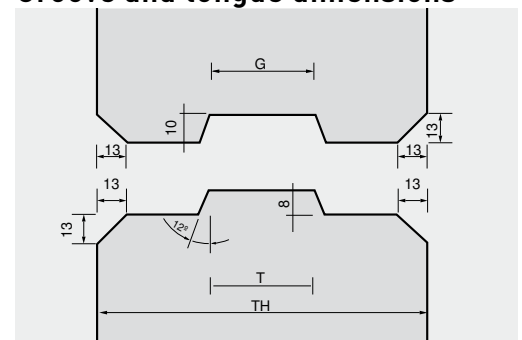
UNSURPASSED FIRE RATING

Aircrete firewall panels substantially outperform its alternatives, such as concrete wall elements. For example, a 15 cm thick firewall made of Aircrete can withstand up to 6 hours of direct fire exposure. Aircrete wall panels do not burn. They are classified as non-combustible, having a Euroclass of A1 (the highest possible) and have a 'class 0' (zero) surface spread of flame.

Installing Aircrete firewalls significantly improves operational safety when it comes to protection against fire. Industrial warehouses, storage areas, logistics centres and other constructions benefit significantly from Aircrete's excellent fire protection properties. Standard Aircrete firewalls can withstand temperatures of up to 1200°C at least for 4 hours.

Note: Fire resistance properties of Aircrete firewalls depend on product thickness and finishing type. Values can be found in following regulations from Europe and USA: BS EN 1996-1-2, DIN 4102-4 and ASTM E-119.

Groove and tongue dimensions



DIMENSIONS AND TECHNICAL SPECIFICATIONS

DELIVERY PROGRAM

Density	Thickness (mm)	Length (mm)	Height (mm)
A-400 / A-500/ A-600	150	≤6000	600-750
	175	≤6000	600-750
	200	≤6000	600-750
	240	≤6000	600-750
	300	≤6000	600-750

MATERIAL CHARACTERISTICS

Density	A-400	A-500	A-600
Average Compressive Strength	2,2 MPa	3,5 MPa	4,8 MPa
Thermal conductivity (λ -lambda)	0,11 W/mK	0,13 W/mK	0,16 W/mK
Modulus of elasticity	1000 N/mm ²	1500 N/mm ²	2000 N/mm ²
Shrinkage due to drying	Does not exceed 0.20 mm/m		

DENSITIES AND WEIGHTS

Density	A-400	A-500	A-600
Dry mass	400 kg/m ³	500 kg/m ³	600 kg/m ³
Design weight incl. reinforcement	475 kg/m ³	575 kg/m ³	675 kg/m ³
Transport weight incl. reinforcement	615 kg/m ³	715 kg/m ³	815 kg/m ³

THERMAL RESISTANCE (U-VALUE)

Thickness	150 mm	175 mm	200 mm	240 mm	300 mm
A-500	0.71 W/M ² K	0.60 W/M ² K	0.53 W/M ² K	0.45 W/M ² K	0.37 W/M ² K
A-600	0.85 W/M ² K	0.73 W/M ² K	0.65 W/M ² K	0.55 W/M ² K	0.45 W/M ² K



Reinforced Panels made using AIRCRETE Europe technology are in compliance with the latest norms: German standard DIN 4223:2003-2012, European Norms EN 12602:2008 as well as the American ACI 523.4 R-09 and ASTM C1386-07.



AIRCRETE
EUROPE
autoclaved aerated concrete

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