

FAST & EASY INSTALLATION

UNIVERSAL BUILDING PRODUCTS

HIGH LOAD-BEARING CAPACITY

SUPER SMOOTH SURFACE

**GREAT
VARIETY
OF AAC
PRODUCTS**



AIRCRETE | AAC PRODUCT PORTFOLIO

BLOCKS | Normal Blocks

Aircrete Blocks are a universal building product. They can be produced with either **sand or fly-ash as a raw material input** and are manufactured in different shapes and sizes, depending on your local market.

- High level of dimensional accuracies (<1mm)
- Handgrips or tongue/groove profiling
- Easy application for non-load bearing structures
- Great alternative to brick masonry

Density1	Thickness (mm)	Length (mm)	Height (mm)
A-300:	50 - 500	400 - 625	200 - 250
A-400:	50 - 500	400 - 625	200 - 250
A-500:	50 - 500	400 - 625	200 - 250
A-600 (sound insulating):	50 - 500	400 - 625	200 - 250

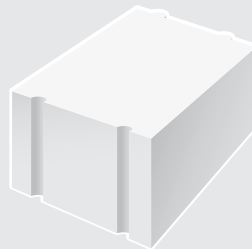
Dimensional accuracy: as per EN 77-4 for thin layer mortar TLMB table 2



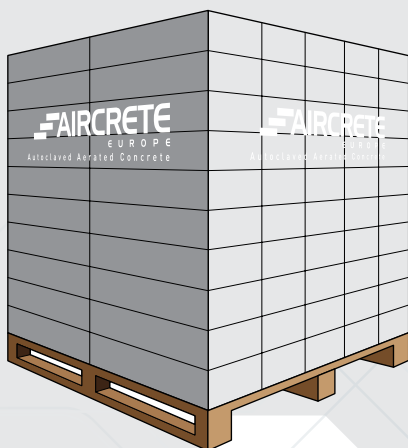
Internal block



External block



Block with tongue grooves



BLOCKS | U-Blocks

Aircrete Blocks are a universal building product. They can be produced with either **sand or fly-ash as a raw material input** and are manufactured in different shapes and sizes, depending on your local market.

- **High level of dimensional accuracies (<1mm)**
- **Easy application for non-load bearing structures**
- **Great alternative to concrete flooring**



BLOCKS | Round Blocks

Aircrete Blocks are a universal building product. They can be produced with either **sand or fly-ash as a raw material input** and are manufactured in different shapes and sizes, depending on your local market.

- **Flexibility and freedom in interior design**
- **High level of dimensional accuracies (<1mm)**
- **Easy application for non-load bearing structures**
- **Great alternative to brick masonry**



PANELS | Cladding Panels

Aircrete Cladding Panels are unique AAC products for façade applications. The product is **extremely light** and can be as thin as 35mm; it is suitable to be directly applied on the exterior of any building.

- **Standard length of 2 meters**
- **Customized surface design**
- **Extra heat insulation layer**
- **Direct installation on concrete/steel structure**

Density	Thickness (mm)	Length (mm)	Height (mm)
A-500 (Standard):	35 - 60	≤2000	600

Dimensional accuracy: as per EN 77-4 for thin layer mortar TLMB table 2



PANELS | Partition Panels

Aircrete Partition Panels are a superior building solution for all internal applications such as separation walls, corridors or storage rooms in residential and commercial constructions.

The **entire non-load bearing** structure of your building can be developed with a single product which allows **reliable** and **efficient construction** for contractors.

The attractive **SUPER SMOOTH surface results in an easy and cost effective finish**. After skimming the joints, the wall is directly ready for wallpapering and/or painting.

- **Standard length from 2.4 to 3 meters**
- **Easy drilling, sawing and nailing**
- **Time and cost efficient installation**
- **SUPER SMOOTH surface**



SUPER SMOOTH FINISH

AIRCRETE Partition Panels have a unique SUPER SMOOTH surface due to the most innovative European production technology. A double wired high-speed cutter closes the aerated concrete pores leaving an exceptionally smooth surface on both sides of the panel. Developers will experience the advantage of significant savings in building time and finishing cost while the installation workers will have a much easier job in finishing the walls.

Dimensions and Technical Specifications

	Density	
	A-600	A-800
Thickness (mm):	70 -150	70 -150
Length (mm):	≤3000	≤3000
Height (mm):	600-750	600-750
Average Compressive Strength:	4,8 MPa	5,6 MPa
Thermal conductivity (λ-lambda):	0,16 W/mK	0,22 W/mK
Shrinkage due to drying:	Does not exceed 0.20 mm/m	
Dry mass:	580 kg/m ³	720 kg/m ³
Design weight incl. reinforcement:	680 kg/m ³	820 kg/m ³
Transport weight incl. reinforcement:	780 kg/m ³	920 kg/m ³

Dimensional accuracy: as per DIN 4166 and DIN 4223 standards.



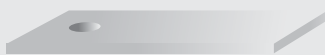
Crosscut saws



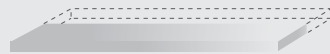
Spring saw



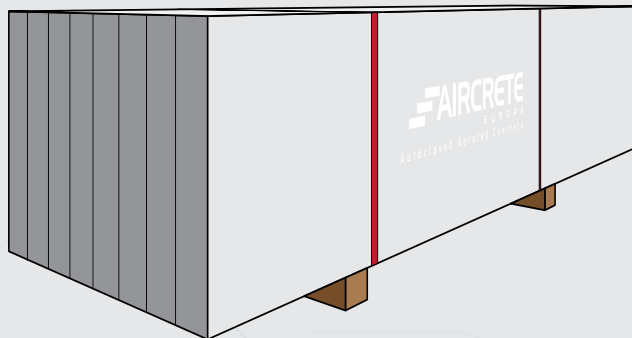
Bevel cuts



Spring drilling



Fitting slabs



For partition (SUPER SMOOTH & Casco panels), the following standard is applied: Nylon Vertical Strapping.



PANELS | Industrial Panels

Aircrete prefab Wall 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.**

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.

- **Standard length of up to 6 meters**
- **Easy and fast installation**
- **High load-bearing capacity**
- **Perfect solution for industrial firewalls**



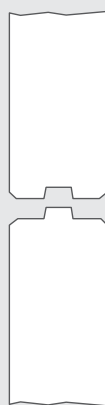
FRONT SIDE
FLAT



LENGTH SIDE
FLAT



MIDDLE PROFILE



- **Superior natural insulation**
- **No waste on-site**
- **Outstanding fire protection**
- **High product dimension accuracy**

Dimensions and Technical Specifications

	Density		
	A-400	A-500	A-600
Thickness (mm):	150 - 500	150 - 500	150 - 500
Length (mm):	≤6000	≤6000	≤6000
Height (mm):	600-750	600-750	600-750
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
Shrinkage due to drying:	Does not exceed 0.20 mm/m		
Dry mass:	400 kg/m ³	500 kg/m ³	600 kg/m ³
Design weight incl. reinforcement:	425 - 475 kg/m ³	525 - 575 kg/m ³	625 - 675 kg/m ³
Transport weight incl. reinforcement:	575 - 615 kg/m ³	675 - 715 kg/m ³	775 - 815 kg/m ³

Dimensional accuracy: as per DIN 4166 and DIN 4223 standards.

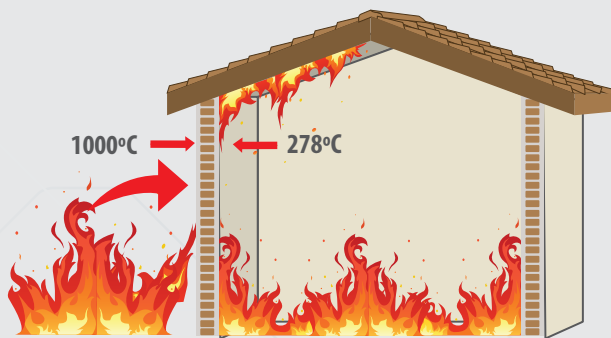


Unsurpassed Fire Rating

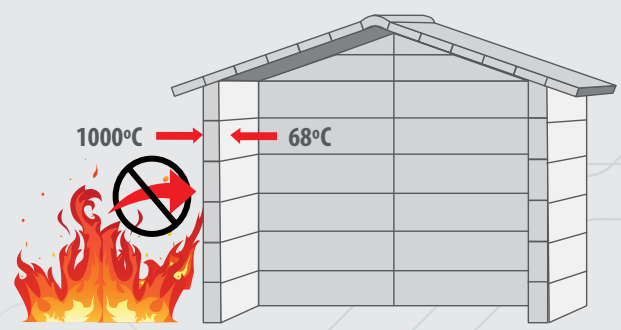
Aircrete firewall panels substantially outperform its alternatives, such as concrete wall elements. For example, a 15 cm thick firewall made of Aircrete can withstand up to 6 hours of direct fire exposure. Aircrete wall panels do not burn. They are classified as non-combustible, having a Euroclass of 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.



Concrete - 150 mm wall thickness



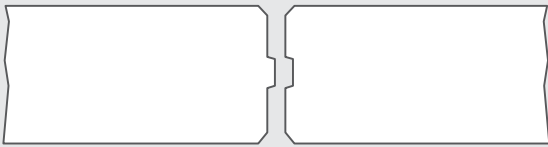
Aircrete - 150 mm wall thickness

PANELS | Roof and Floor Panels

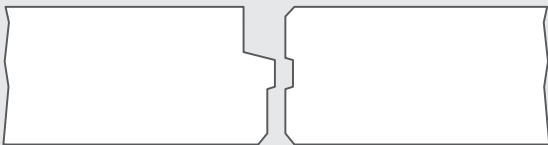
Aircrete prefab Floor and Roof Panels are load-bearing reinforced products used in social and commercial construction.

- **Standard length of 4 - 6 meters**
- **Thickness up to 30cm**
- **Customized profiled side edges**
- **Easy and fast installation**

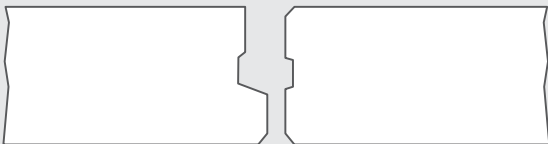
TONGUE + GROOVE



FILLING GROOVE



FILLING GROOVE (ROOF AND FLOOR PANELS)



LINTELS | Structural Beams

Aircrete lintels are special load-bearing reinforced products. They serve as beams to support the weight of the wall (live, dead and wind) over window or door openings.

- Length up to 3 meters
- High load-bearing capacity
- SUPER SMOOTH surface
- Installation on AAC/concrete/steel structure

Density	Thickness (mm)	Length (mm)	Height (mm)
A-600 (Standard):	100 - 300	1000 - 2500	200 - 300

Dimensional accuracy: as per EN 7714 for thin layer mortar TLMB table 2

