

AUTOCLAVED AERATED CONCRETE (AAC)

A PERFECT BUILDING MATERIAL

Autoclaved Aerated Concrete, also known as AAC or aircrete, is a **green precast building material** present in the global market for over 70 years. Produced in hundreds plants around the world, AAC is extensively used in **residential, commercial** and **industrial** construction.

AAC is an **eco-friendly building material**, made from natural raw materials such as: sand (or fly-ash), cement, lime, gypsum, aluminium powder and water.

This mix creates an aerated concrete providing **insulation, structure** and **fire protection** in one lightweight product.



WIDE VARIETY OF AAC PRODUCTS

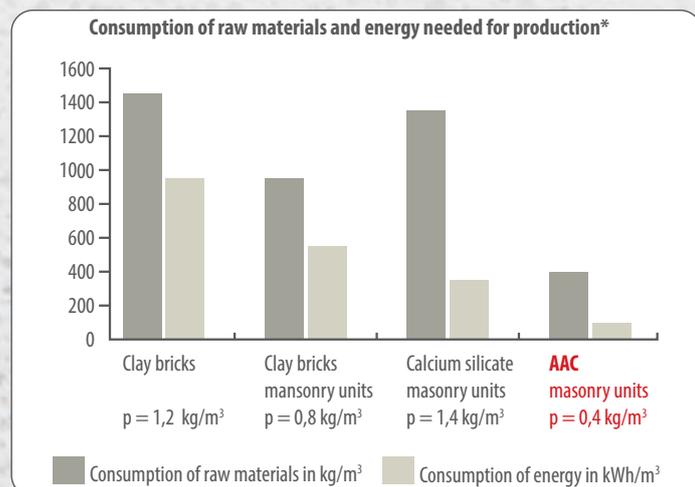


ENERGY AND RESOURCES EFFICIENCY

Thanks to the air pores in the material, AAC is a **great sound** and **thermal insulator**.

The thermal conductivity (λ) values are between 0,08 - 0,16 W/(mK) depending on density used.

AAC product densities vary between **300-800 kg/m³** and compressive strength is in the range 2,5 - 6 N/mm², making it **extremely resource efficient material**.



The unique advantages of AAC outperform traditional building materials

*Source FeBeCel handbook 2000: Le Béton Cellulaire - Matériau d'Avenir, p. 32

FAST AND EASY BUILDING SYSTEM

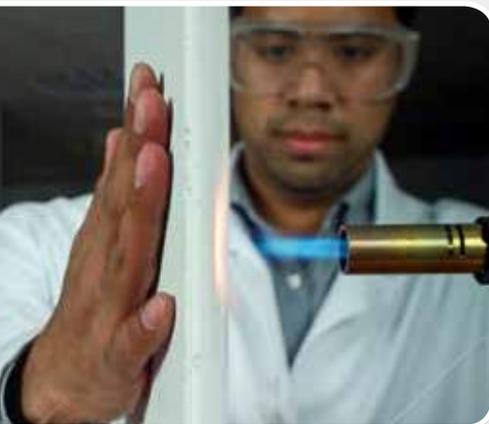
AAC panels offer new possibilities for product applications beyond AAC blocks. In panel based systems, installation of prefabricated elements is **fast** and **easy**. As a result, the total cost of an installed m² is reduced compared to traditional building methods.

The SUPER SMOOTH surface of the panels adds to quick finish as **the walls are ready for direct painting**.



LARGE FORMAT EFFICIENCY

The large size of elements also allows for **faster building** and **reduction of installation materials and labor**. For example, one standard partition panel (60cm x 300cm) is 1,8m² of wall, equivalent to 12 standard AAC blocks (25cm x 60cm). An industrial panel can even have a surface of 6m² per element (800cm x 75cm).



FIRE PROOF AND SAFETY

AAC has the **highest possible fire safety** Euroclass A1.

Prefabricated wall panels are a perfect solution to construct large scale buildings. From giant distribution centers to new shopping malls, AAC walls protect valuable goods due to their **outstanding strength** and **fire protection**.



Roof panel installation



Industrial wall panel installation