

Autoclaved Aerated Concrete Market Growth Set to Surge Significantly at a CAGR of 7.2% by 2027

Autoclaved aerated concrete (AAC) is a profitable alternative for low-cost construction especially in developing regions.

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Autoclaved aerated concrete (AAC), commonly referred to as autoclaved lightweight concrete, aircrete, foam concrete, autoclaved cellular concrete, or porous concrete, stands as a innovative and lightweight substitute

for traditional construction materials, particularly in the creation of walls and other non-load bearing components. The versatility of AAC is evident in its various forms, including panels, blocks, and other configurations, making it suitable for applications such as wall cladding, flooring, roofing, partition walls, and more.

At its core, AAC is distinguished by its composition, with approximately 80% of its structure comprised of air, a result of the expansion agent used in the manufacturing process. This intentional introduction of air serves to diminish the density and overall weight of the concrete, rendering it an exceptionally lightweight yet durable building material. As a consequence, structures constructed with autoclaved aerated concrete boast the benefits of reduced weight without compromising on strength, making it an environmentally friendly and economically viable choice for modern construction projects.

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Europe and Asia-Pacific are the highest contributors in the [autoclaved aerated concrete \(AAC\) market](#). Countries such as China, Germany, Poland, and the UK hold majority of the global share in production and consumption of AAC, owing to the demand for light weight and high thermal insulation properties of AAC. However, rise in awareness against traditional clay bricks mainly in developing nations such as India, Bangladesh, Mexico, and others is likely to boost the growth of



the autoclaved aerated concrete (AAC) market in these countries. Furthermore, the easy availability of wood in low costs mainly in the U.S. and Canada has hindered the demand for AAC in these countries.

According to product type, the blocks segment was the leading contributor in the autoclaved aerated concrete (AAC) market, due to ease of manufacturing of AAC blocks. In the UK alone, around 25.4-million-meter square of aerated blocks were consumed during 2019 whereas the total production reached approximately 27.9-million-meter square during the same period.

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The global autoclaved aerated concrete (AAC) market is segmented on the basis of product type, end user, application, and region. Depending on product type, the market is classified into blocks, panels, and others. According to end user, it is categorized into residential and non-residential. On the basis of application, it is classified into walls, floors & roofs, and others.

The global autoclaved aerated concrete (AAC) market is analyzed across North America (the U.S., Canada, and Mexico), Europe (the UK, Germany, France, and rest of Europe), Asia-Pacific (China, India, Japan, and rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa). Asia-Pacific is expected to hold the largest market share throughout the study period, and LAMEA is expected to grow at the fastest rate.

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Top Players:

The major players operating in the autoclaved aerated concrete (AAC) industry include Aercon AAC, AKG Gazbeton, Bauroc AS, Ballarpur Industries Limited (BILT), HIL Limited, CSR Ltd., Forterra plc, H+H International A/S, JK Laxmi Cement Ltd., and Xella International GmbH.

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