

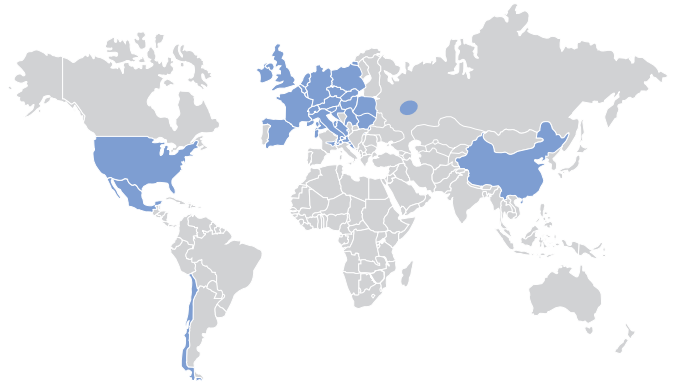


**HEBEL Autoclaved Aerated Concrete**  
**Strength For Building**  
**A Greener World**





XELLA operates and manufactures building materials in more than 30 countries worldwide



## Since 1945, We've Been Building A Healthier World—One Block At A Time

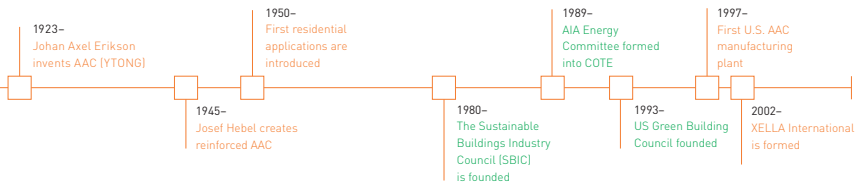
With today's demand for earth-friendly construction, visionary architects and builders are relying on the timeless strength and versatility of HEBEL AAC. This solid building material delivers the advantages of green construction, including improved air quality and lower insulation expenses. All this eliminates the disadvantages of wood, such as combustibility, vulnerability to wood-destroying organisms, and relatively rapid decay.

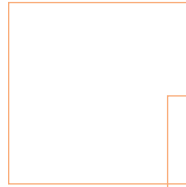
**A History Rooted In Nature**  
HEBEL's roots go back to the 1920s, when Sweden was enduring an extreme shortage of wood due to deforestation. Desperately in need of an alternate building material, Johan Axel Eriksson developed the first autoclaved aerated concrete (AAC) later patented under the brand name YTONG.

Today, XELLA is the world's leading and most trusted producer of YTONG and HEBEL AAC, both internationally and here in the U.S.

Today, XELLA has 7,400 employees operating in more than 30 countries around the world. Panels of this amazing material are rapidly becoming the building blocks of a new, greener world.

In 1945 Josef Hebel invented an even better method for manufacturing AAC, one which incorporated steel into the production process.





## A Better Way To Build

There are a number of advantages to using HEBEL AAC, each one compelling in its own right, but taken as a whole they create a nearly irresistible case for this unique product.



### Lightweight, Yet Extremely Strong And Durable

HEBEL AAC manufacturing process creates an ultralight concrete (about 1/4 the weight of conventional concrete) with a unique cellular structure. HEBEL AAC can be produced as reinforced panels, which becomes an unbeatable combination of strength and durability with extreme lightness for ease of use and workability. Whether blocks or reinforced panels are specified, it's the right choice for many load-bearing or non-load-bearing applications.



### A Green Product For A Green World

HEBEL AAC's main ingredients, sand, lime and water, are natural and are found in abundance. They emit no volatile compounds into the atmosphere and by-products can be recycled back into the production process.



### Better Fire Protection And Thermal Insulation

Safer materials are better materials. HEBEL AAC is not only noncombustible, it has the highest level of fire safety. It heats up significantly less and more slowly than other building materials and has the fire-resistance ratings to prove it. Not surprisingly, HEBEL AAC's insulating properties are superior to other materials.



### A Sound Choice For Seismic Integrity And Acoustics

When superior seismic resistance is of critical importance, HEBEL AAC is up to the job. Our units are bonded together with a thin bed mortar creating a monolithic wall construction with an exceptionally tight bond. Vertical and/or horizontal reinforcement can be added for additional seismic resistance.

HEBEL AAC's high surface mass dampens mechanical vibration energy. It functions as a sound insulation and absorption barrier to deliver quieter buildings.



## Smart Designs For Intelligent Systems

In design and construction, HEBEL AAC is a builder's dream come true. Once in place, the buildings' owners will appreciate the many advantages HEBEL AAC offers.



### Easier To Work With, Faster And More Cost-Effective To Install

Builders enjoy how easy HEBEL AAC is to work with. AAC can be cut and shaped using basic wood-working tools. A crane is used for efficient large panel placement, while smaller unit assembly is similar to traditional masonry work. Many types of fasteners, connectors and anchors can be used. The resulting ease of assembly saves time and money.



### Meets Building Codes While Reducing Building Headaches

HEBEL AAC meets the many requirements today's building codes place on builders. To properly evaluate your specific needs, we offer XELLA technical advisors for each individual application.



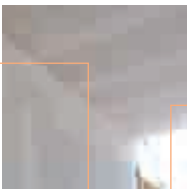
### Sustainable Building Material

HEBEL AAC is weather and mold resistant, which are significant advantages in the building process. AAC's natural ability to diffuse water vapor controls moisture and mold, reducing delays due to wet building conditions, and removes some stages from the construction critical path.



### Modular Elements Mean Greater Efficiency

AAC's unusual lightness greatly reduces the freight charges required to deliver it to the job site. Available as a pre-cast panel or block in a variety of dimensions, HEBEL AAC is engineered to precise standards at a state-of-the-art facility. This ensures that when the materials arrive on-site, they require less manpower to install and less clean-up.





## Architects Embrace The Limitless Possibilities

HEBEL AAC's overall performance, as well as its various finishing possibilities make it the best option for a variety of applications.



### One Material For Floors, Walls, Roofs And Shaft Structures

Flexibility is an integral part of HEBEL AAC. By varying its thickness, amount of reinforced steel and coatings, HEBEL AAC adapts to every structural surface. It's suitable for floors, exterior and interior walls, roofs, elevator shafts, stairwells and other specified applications.



### Allowing The Creativity An Architect Desires

A finished look, or an unfinished one—you decide. HEBEL AAC can be coated with a wide variety of finishing materials to enhance its cosmetic appeal, its performance capabilities or both. Direct applications of breathable stucco or plaster, as well as other siding materials, are typical wall coverings used.



### The Smart Choice For Schools, Hotels, Apartments And Offices

The possibilities are endless. You design the structure; HEBEL AAC can design the solution that works best for your needs.

What's more, AAC's structural strength paired with its shapability makes it a uniquely creative material. It can be easily worked into various shapes while still maintaining its inherent performance advantages.





## Our Products And Our People Provide Excellent Support

At XELLA, we believe in providing all the professional support our clients need. At any stage of the building process, from providing performance specs, consulting on specialized applications through ordering, delivery, installation and follow-up, we are readily available.

### Technical Services To Ensure The Correct Application

All the technical support you need is available in application, design, engineering and interface. Our personnel have decades of experience working with AAC and provide superior customer support. We'll ensure you get the most efficient, most appropriate and most economical solution to your specific construction needs. Our reputation is on the line right along with your own.

### On-Site Construction Services To Ensure The Correct Materials

Our support continues after the sale. Each order is assigned to a Project Manager who will follow your job through to installation. If needed, we will provide an on-site Construction Supervisor to assist you during on-site installation.

### The World's Most Trusted Companies Trust Us

You're in very capable hands. The following companies have all trusted XELLA to provide building materials for major recent projects: IKEA, Honda, Daimler-Chrysler, BMW, Nike, Dow Chemicals, Bridgestone, Volkswagen, and Adidas. These companies have relied on HEBEL AAC; rest assured that you can too.

### How Can We Help You?

For additional information, visit [www.xella-usa.com](http://www.xella-usa.com), e-mail us at [hebel-usa@xella.com](mailto:hebel-usa@xella.com) or call 888-XELLA-US to contact your local representative.



## Our Product Line And Specifications

| Product              | Thickness  | Height                   | Length            | Strength           |
|----------------------|--|--------------------------|-------------------|--------------------|
| Wall Panel           | 6", 8", 10" & 12"                                    | 24"                      | Up to 236"        | AAC-4              |
|                      | 150 mm, 200 mm, 250 mm & 300 mm                      | 610 mm                   | Up to 5995 mm     | AAC-6              |
| Roof and Floor Panel | 4", 6", 8", 10" & 12"                                | 24"                      | Up to 236"        | AAC-4              |
|                      | 100 mm, 150 mm, 200 mm, 250 mm & 300 mm              | 610 mm                   | Up to 5995 mm     |                    |
| Block                | 2", 3", 4", 6", 8", 10" & 12"                        | 8" & 12"                 | 24"               | AAC-2              |
|                      | 50 mm, 75 mm, 100 mm, 150 mm, 200mm, 250 mm & 300 mm | 200 mm & 300 mm          | 610 mm            | AAC-3 <sup>1</sup> |
|                      |  |                          |                   | AAC-4              |
|                      |  |                          | AAC-6             |                    |
| Shaft Block          | 3" & 4"  | 24"                      | 24"               | AAC-2              |
|                      | 75 mm & 100 mm                                       | 610 mm                   | 610 mm            | AAC-3 <sup>1</sup> |
|                      |  |                          |                   | AAC-4              |
| Jumbo Block          | 6", 8", 10" & 12"                                    | 24"                      | 40" & 48"         | AAC-2              |
|                      | 150 mm, 200 mm, 250 mm & 300 mm                      | 610 mm                   | 1000 mm & 1200 mm | AAC-3 <sup>1</sup> |
|                      |  |                          |                   | AAC-4              |
|                      |  |                          |                   | AAC-6              |
| Mini-Jumbo Block     | 6", 8", 10" & 12"                                    | 24"                      | 24"               | AAC-2              |
|                      | 150 mm, 200 mm, 250 mm & 300 mm                      | 610 mm                   | 610 mm            | AAC-3 <sup>1</sup> |
|                      |  |                          |                   | AAC-4              |
|                      |  |                          |                   | AAC-6              |
| Board                | 2", 3" & 4"  | 24"                      | 112" & 120"       | AAC-4              |
|                      | 50 mm, 75 mm & 100 mm                                | 610 mm                   | 2845 mm & 3050 mm |                    |
| Lintel               | 6", 8", 10" & 12"                                    | 12", 16" & 24"           | Up to 120"        | AAC-4              |
|                      | 150 mm, 200 mm, 250 mm & 300 mm                      | 305 mm, 406 mm, & 610 mm | Up to 3050 mm     | AAC-6              |
| U-Block              | 8", 10", 12"   | 8"                       | 24"               | AAC-2              |
|                      | 200 mm, 250 mm & 300 mm                              | 200 mm                   | 610 mm            | AAC-3 <sup>1</sup> |
|                      |  |                          |                   | AAC-4              |
|                      |  |                          |                   | AAC-6              |

## Density

|                         | Dry Density            |                      | Design Density         |                      | Shipping Density       |                      |
|-------------------------|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
|                         | [lbs/ft <sup>3</sup> ] | [kg/m <sup>3</sup> ] | [lbs/ft <sup>3</sup> ] | [kg/m <sup>3</sup> ] | [lbs/ft <sup>3</sup> ] | [kg/m <sup>3</sup> ] |
| AAC-2/400               | 25                     | 400                  | 27                     | 440                  | 33                     | 540                  |
| AAC-2/500               | 31                     | 500                  | 36                     | 570                  | 42                     | 670                  |
| AAC-3 <sup>1</sup> /500 | 31                     | 500                  | 36                     | 570                  | 42                     | 670                  |
| AAC-4/500               | 31                     | 500                  | 36                     | 570                  | 42                     | 670                  |
| AAC-4/600               | 37                     | 600                  | 44                     | 710                  | 50                     | 800                  |
| AAC-6/700               | 44                     | 700                  | 52                     | 840                  | 58                     | 940                  |

1. AAC-3 strength class as referenced in ESR-1371. Report available @ [www.icc-es.org](http://www.icc-es.org).



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