

LEADER IN AERATED CONCRETE BUILDING SOLUTIONS

German 
Technology 

 **hebel**[®]



About us

Hebel offers building systems based on autoclaved cellular concrete, a technology that allows delivering efficient, ecological and sustainable solutions from the manufacturing to the application, promoting high energy efficiency in all types of buildings with the highest quality, the highest fire resistance classification, in addition to having a high performance as an acoustic insulator; Due to its lightness and cleanliness, it considerably reduces construction times, generating direct savings for labor.

Due to their qualities of protection of the environment and natural resources, our products have achieved the highest standards and certification standards. Being Hebel one of the brands of Grupo Xella, Leader in Autoclaved Cellular Concrete worldwide, you have access to the Research and Development Center in Germany, which operates its own

technology and processes. In this center they develop and create new building applications monitoring all the steps of the production process in order to guarantee the best quality and solution for our clients, in addition to ensuring the highest performance.

Autoclaved Aerated Concrete technology was invented in 1924 and patented by J.A. Eriksson Hebel, brand and last name of the founder, Civil Engineer Joseph Hebel, opened the first autoclave aerated concrete factory in 1943 with production of prefabricated panels to be installed in industrial walls and ceilings. The objective: expedite and have a work completed in the shortest possible time, with unique advantages in the same material of high thermal insulation against cold and heat, fire resistance and greater durability, to be able to rebuild the destroyed cities after the 2nd War World.

Hebel has been present in the Americas since 1994, being the construction system with the highest German quality, technology and innovation in the industry.

Its properties take any project to a higher category, managing to build a better quality of life, comfort and savings for a lifetime. Hebel Mexico offers a comprehensive experience with a specialized 360 service and assigned to each project according to your requirement.

The Hebel Plant in Mexico is located in Pesquería, Nuevo León, and has a capacity to offer more than 500,000 m² of slab and 1,000,000 m² of wall per year for the markets of Mexico, United States and Latin America.

Aerated Concrete Hebel® : Unique properties in a single material.

Benefits



Thermal Insulation

Buildings constructed of HEBEL AAC provide substantial energy savings in both hot and cold climates. The unique closed cellular structure and the thermal mass contribute to a high R-value and air-tightness which reduce heating and cooling costs and improve indoor air quality. Buildings have seen savings on air conditioning up to 35% by using HEBEL AAC.



Structural Performance

Resists wind pressures. High impact resistance.



Fire Resistant

We are **certified** by Underwriters Laboratories (UL) with the **maximum fire-rating classification**. Our systems **withstand fire exposure up to 4 hours**, maintaining their structural integrity and **DO NOT emit toxic fumes** even under intense heat.



Acoustic Insulation

Provides exceptional acoustic insulation. Its porous structure and high surface mass, coupled with its ability to dampen mechanical vibration energy, **greatly reduces sound transmission from exterior - interior and room-to-room**.



Resistance to humidity

Protects against moisture. It allows the passage of water vapor, reducing condensation.



Green Building

- Recyclable, inert & non-toxic
- Energy saving
- Durable
- LEED credits



Easy treatment

Can be **easily cut, drilled and grooved** with manual or power tools.



Lightweight

Its lightweight nature allows a **faster and more efficient construction**.



Pest resistance

Not a food source for termites or vermin and no cavity construction. **Eliminates the chance of harbouring pests.**

Physical Properties

The physical properties of HEBEL Autoclaved Aerated Concrete are unique to any other building material. Properties such as thermal insulation and fire resistance cannot be met by another product alone.

- Speed of Construction
- Thermal Insulation & Energy Savings
- Superior Fire Resistance
- Sustainable
- Relatively high strength for a low density
- Workability
- Acoustic Performance
- Precision

This product meets Standards and Evaluation issued by:



ACI
530-13
ACI
523.4-R09



ASTM
C 1693-11
ASTM
C 1660-09





COOL
IN SUMMER

WARM
IN WINTER

SAVE ENERGY COSTS

**SAVE UP TO 35%, REDUCING
YOUR BILLS FOR LIFE.**

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NATIONAL PROJECTS



Hotel Holiday Inn
Dallas, Texas



Hotel Embassy Suite
McAllen, Texas



Allen University
Columbia, South Carolina



St. Jude Children's Research Hospital
Memphis, Tennessee



Residential
McAllen, Texas



Ames Lake Studio,
Seattle, Washington



Residential in Roma
Texas

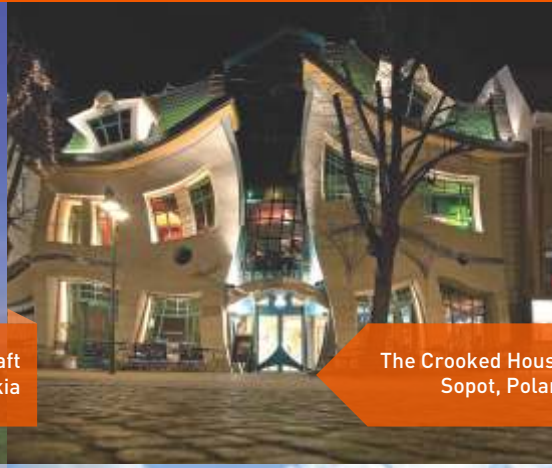


Hotel La Quinta Inn & Suites
Ducanville, Texas

INTERNATIONAL PROJECTS



Aircraft
Bratislava, Slovakia



The Crooked House,
Sopot, Poland



Saqqara Residences
Nuevo Leon, Mexico



Dancing House
Prague, Czech Republic



Industrial Building Heineken@
Chihuahua, Mexico



Industrial Building Nike
Germany



Mercedes-Benz Arena,
Shanghai, China

BUILDING SOLUTIONS FOR EVERY PROJECT

There is only one Hebel®



◀ Residential

A home built with Hebel® is a living place that protects and provides comfort to all family members, bringing great energy savings for life.



Hotels and Hospitals

Any multifunctional design challenge is possible with Hebel®, as example Hotels that comply very specific requirements.





◀ Multilevel Buildings

Hebel® Autoclaved Aerated Concrete is ideal for multilevel buildings. Building process is faster than conventional materials.

Industrial

Due to its strength, it can resist wind pressures without reinforcement, which makes it perfect for industrial buildings. It provides a high impact resistance. ▼

Residential

Building with Hebel®, means high technology materials that besides providing security they promote saving daily resources once they are built. ▼



HEBEL® IS PERFECTION

The decision of using Hebel® does not depend on a particular argument, as it combines so many advantages in just one product. Each of our clients finds the perfect building solution within our different construction systems for every specific project.

AAC PROPERTIES

(Autoclaved Aerated Concrete)

Characteristic	Unit	AAC-3	AAC-4	AAC-6
Compressive Strength (f' aac)	psi	435	580	870
Nominal Density	pcf	25	31	37
Design Weight	pcf	30	37	45
Drying Shrinkage	%	<0.02	<0.02	<0.02
Thermal Expansion Coefficient	1°/F	4.4x10 ⁻⁶	4.4x10 ⁻⁶	4.4x10 ⁻⁶
Thermal Conductivity	BTU-in/ft ² h °F	0.91	0.91	0.98
Modulus of Elasticity	psi	248890	295781	377246
Modulus of Rupture (MOR)	psi	100	116	142
Bearing Stress	psi	261	348	522


AAC material is produced in accordance with ASTM-C-1693-11

STRONG WALLS

THE BEST FIRE RESISTANCE

GREAT THERMAL PERFORMANCE

ENERGY, INSURANCE AND
MAINTENANCE SAVINGS FOR LIFE

- 
- Lightweight
 - Acoustic
 - No Mold -Mildew
 - Fast construction
 - Wind resistance

Hebel[®] Masonry Components

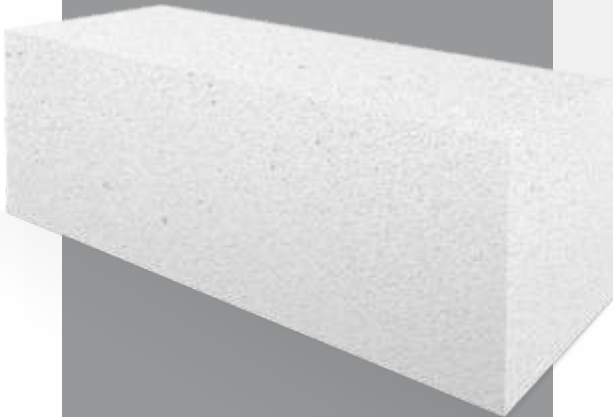
Autoclaved Aerated Concrete

Dimensions:

Length 24 in
Height 8 (7-7/8)in
Thickness 4 in to 12 in

Application:

Commercial
Residential
Industrial



Uses and applications

Hebel Masonry Components are used to build reinforced load-bearing and nonload-bearing exterior and interior walls for fire and shaft walls in Residential, commercial and industrial buildings.

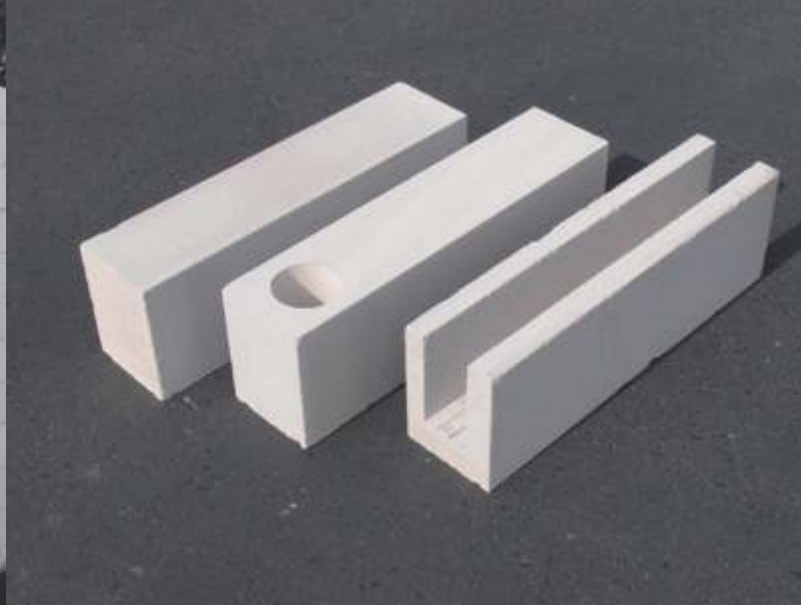
Hebel AAC meets the diverse demands better than any other material due to the numerous advantages of its physical, mechanical and energy efficiency properties.

Construction Advantages

- ✓ Solid walls.
- ✓ Energy savings 35%.
- ✓ Eliminates thermal bridges.
- ✓ Faster construction.
- ✓ High structural performance.

More benefits of Hebel[®] Masonry Components

- Savings in construction time and workforce.
- Fire resistance.
- Acoustic performance.
- Humidity resistance.
- Minimum waste.
- Friendly to the environment.
- Sustainable.



More information about this product please enter the following link:

Hebel® Power Panel

Autoclaved Aerated Concrete

Dimensions:

Thickness 2 in and 3 in
Length 8 and 10 ft
Width 24 in

Application:

Commercial
Residential
Industrial

Uses and applications

Hebel® Power Panel can be applied directly to wood or metal studs, eliminating the need for additional structural sheathing such as plywood. The Hebel Power Panels are reinforced internally with a steel mesh protected with anticorrosive coating. In addition, the lightweight nature of Hebel AAC allows a faster and more efficient construction.

Construction Advantages

- ✓ Steel Reinforced.
- ✓ Structural Performance.
- ✓ Fire Resistant.
- ✓ Light-weight.
- ✓ Long life.
- ✓ Efficient construction.
- ✓ Cost competitive.
- ✓ Fast and easy to install.
- ✓ Water penetration resistant.
- ✓ Termite and Pest-resistant.
- ✓ Workability.
- ✓ Environmentally friendly.

More benefits of Hebel® Power Panel

- Solid cellular concrete material, without deterioration of its properties over time.
- Monolithic surface: smooth walls with the capacity to receive all kinds of finishes or stonework.
- Greater thermal and acoustic insulation.
- Resistant to climate changes: rain, heat and humidity.
- As versatile as cutting, sanding, grooving.



More information about this product please enter the following link:

Hebel® Power Floor™

Autoclaved Aerated Concrete

Dimensions:

Thickness 3 in
Length 6ft, 6ft-8in, and 8ft
Width 24 in

Application:

Hospitality
Assisted Living
Multifamily



Uses and applications

Hebel® PowerFloor™ is a lightweight autoclaved aerated concrete (Hebel AAC) panel that can be fixed to timber or steel joists. It provides the feel of a rigid concrete floor but with the advantage of providing an instant working surface, along with acoustic and thermal benefits.

Construction Advantages

- ✓ No topping required.
- ✓ Rapid installation.
- ✓ Fire resistant.
- ✓ Superior Acoustic insulation.
- ✓ Accuracy of manufactured panels.
- ✓ No pre-drilling.
- ✓ Excellent load carrying capacity.
- ✓ Smooth finish surface.
- ✓ Lightweight panels.
- ✓ Non Toxic.
- ✓ Pest and rot resistant.

More Benefits of Hebel® Power Floor™

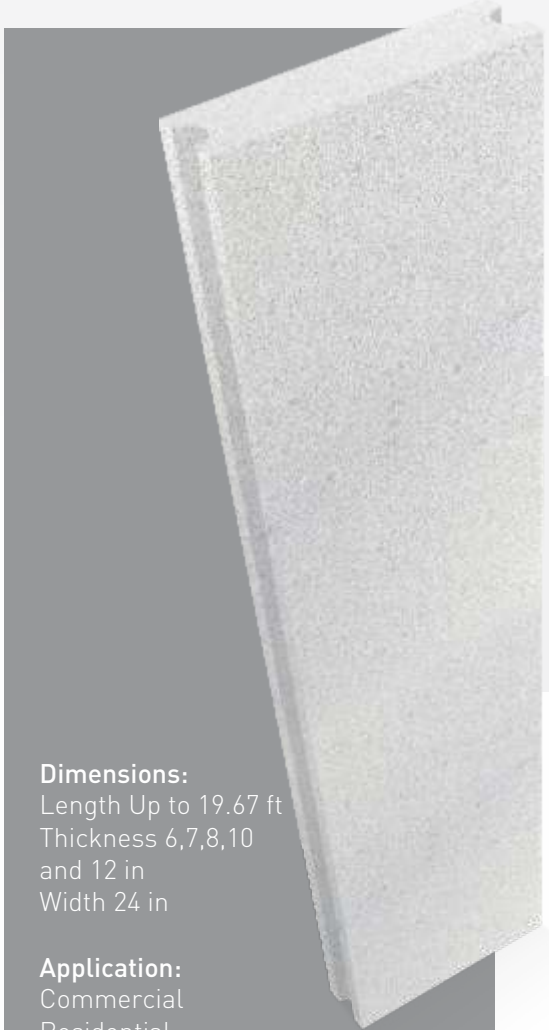
- Fire resistance.
- Strength and security.
- Acoustic performance.
- Thermal performance.
- Not Mildew.
- Low maintenance.
- Grants LEED points.
- Solid concrete floor.



More information about
this product please enter the following link:



Hebel® Vertical Load-Bearing Wall Panels



Dimensions:

Length Up to 19.67 ft
Thickness 6,7,8,10
and 12 in
Width 24 in

Application:

Commercial
Residential
Industrial

Uses and applications

Hebel AAC Hebel® Vertical Load Bearing exterior and interior walls for residential, hotels, commercial and industrial buildings.

The thickness and panel length (height) vary depending on the design requirements and constraints of the project.

Construction Advantages

- ✓ 4 Hour Fire Rating
- ✓ Moisture Resistant
- ✓ Mold Resistant
- ✓ Lightweight
- ✓ Pest and Rot Resistance
- ✓ Non-Toxic

This product is friendly to the environment,
ecological, non-toxic and sustainable;
And also grants LEED points.



More information about this product please enter the following link:



Hebel® Wall Panel

Autoclaved Aerated Concrete



Uses and applications

The Hebel wall panel system uses its excellent thermal, fire resistance, and lightness features to be one of the best options as curtain wall solution in industrial and commercial projects. The process is simpler and quicker than conventional methods.

Dimensions:

Length Up to 19.67 ft

Width 24 in

Nominal Thickness 4,5,6,7,8,10
and 12 in

Application:

Commercial

Industrial

Hospitality

Assisted Living

Dorms

Fire walls

Construction Advantages

- ✓ Superior Fire rating.
- ✓ Speed of Construction.
- ✓ Durability (Low maintenance)
- ✓ Lightweight (37pcf)
- ✓ Lightweight equipment needed to install.
- ✓ 5 people crew to install.
- ✓ Custom made.
- ✓ Workability.

More benefits of Hebel® Wall Panel

- Fire resistance.
- Strength and security.
- Wind load capacity.
- Acoustic performance.
- Thermal performance.
- Pest and rot resistant.
- Not Mildew.
- Low maintenance.
- Friendly to the environment and Sustainable.
- Grants LEED points.



More information about this product please enter the following link:

Hebel® Slab Panel

Autoclaved Aerated Concrete



Dimensions:

Length Up to 19.67 ft

Width 24 in

Thickness 4, 5, 6, 7, 8, 9, 10, 11
and 12 in.

Application:

Commercial
Residential
Industrial

Uses and applications

Hebel Slab Panel are steel reinforced units used to build roof or floor slabs that work simply supported over masonry walls (either Hebel or CMU), and also by steel, concrete or wood structures. Their design is based on span-load requirements.

Construction Advantages

- ✓ Lightweight (37pcf).
- ✓ No propping required.
- ✓ No concrete topping required.
- ✓ Custom made.
- ✓ Excellent Load carrying capacity.
- ✓ Covers up to 19ft-8" span.
- ✓ Lightweight equipment needed to install.
- ✓ 5 people crew to install.
- ✓ Speed of construction.

More benefits of Hebel® Slab Panel

- Fire resistance.
- Acoustic performance.
- Thermal performance.
- Pest and rot resistant.
- Not Mildew.
- Low maintenance.
- Friendly to the environment and Sustainable.
- Grants LEED points.



More information about
this product please enter the following link:



Hebel® Fence Panels

Autoclaved Aerated Concrete

Dimensions:

Length: 8ft
Width: 24 in
Nominal Thickness: 2 and 3 in

Application:

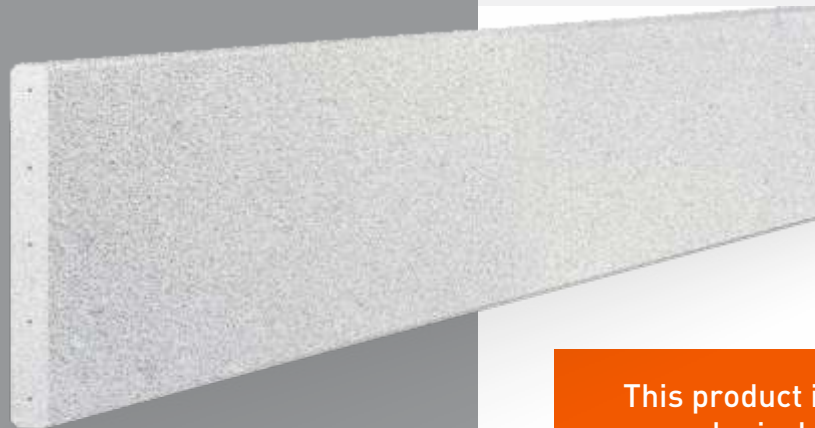
Commercial
Residential
Industrial

Uses and applications

Hebel fence can be used for fence construction on landscaping, providing privacy, protection and style. Decorative and creative ideas can be adapted to Hebel Fence such as ornamental moldings, openings, posts, etc.

Construction Advantages

- ✓ Fast and easy to install.
- ✓ Lightweight.
- ✓ Fire Resistant.
- ✓ Strength and security.
- ✓ Versatile and affordable.
- ✓ Acoustic barrier.
- ✓ Low maintenance (Durability).



This product is friendly to the environment,
ecological, non-toxic and sustainable;
And also grants LEED points.



More information about
this product please enter the following link:



360° Service: We provide support from the development of your project until its conclusion the development of your project, offering the best building solution based on your needs. We are your best ally for construction projects.



- ✓ Specification
- ✓ Estimating
- ✓ Value Engineering
- ✓ Technical and Engineering support
- ✓ Training and product consultant
- ✓ Logistics
- ✓ Customer Service



There is only one
hebel[®]

hebel[®]

CONCRETO CELULAR AUTOCLAVADO
AUTOCLAVED AERATED CONCRETE (AAC)



Fabricado por / Manufactured by
Hebel Mexicana, S.A. de C.V.
INDUSTRIAS BSA DE CELLA SPANISH
CDA Y SRA CALZADA 173-301002
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www.hebel.com.mx

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