

Properties		
Characteristic	Unit	Strength Class AAC-4
Compressive Strength (f' acc)	psi	580
Nominal Density	pcf	31
Design Weight	pcf	37
Drying Shrinkage	%	0.02
Thermal Expansion Coefficient	K-1	8x10-6
Thermal Conductivity	BTU-in/ft2h°F	0.8528
Water Vapor Permeability	ng/Pa.s.m	0.223
Moisture Adsorption	% en masa	2.9
	% volumen	1.47
Modulos Elasticity	psi	295,000
Modulos of Rupture (MOR)	psi	115
Allowable Bearing Stress	psi	348

Table: 1 Desig Weight

Fire Performance		
Wall components Class AAC-4	Fire Ratings (Hours)	UL Design number

Hebel Metal 2" Unfinished	2	U919
---------------------------	---	------

Note: Testing performed at Underwrites Laboratories, Inc. Northbrook, IL under AST E119 (UL/ANSI263) "Fire Tests of Building Construction and Materials".

Table: 2 Hebel Metal fire rating

Thermal Conductivity	
AAC-4	
Thermal Conductivity Steady-State	0.8528 BTU-in/ft2-h-°F

Units: BTU=British Thermal Unit, in=inches, ft=feet, h=hour, °F=Fahrenheit

Table: 3 Hebel Metal acoustic performance

Acoustic Performance		
Asembly Type	STC	Report No.

Hebel Metal 2" Unfinished	28-32	AS-TL958AX
---------------------------	-------	------------

Note: Testing performed at Acoustic System, Inc. 415 East Elmo Rd. Austin TX in accordance with ASTM E90 "Standard Methond for Laboratory Measurement of Airbone Sound Transmission Loss of Building Partitions".
STC = Sound Transmission Class.

Table: 4 Hebel Metal acoustic performance

Design Weight				
Thickness	Length	Design Weight		Area per piece

in	ft	ib/ft2	ib/piece	ft2
2	8	6.17	98.7	16
3	8	9.25	148.0	16

Table: 5 Design Weight



Energy saving



Moisture resistant



Fire resistance




Noise resistance



Ecological

hebelmetal[®]
Revolutionizing Modular Construction




Deutsche Technologie 

www.hebelmetal.com
www.hebel-usa.com

Xella Aircrete North America, Inc. 900 Schneider Dr. Cibolo, Texas 78108 Office: 210/402-3223 Fax: 210/402-6390
1-888-SA-XELLA (72-93552)



Deutsche Technologie 

hebelmetal[®]
Revolutionizing Modular Construction



The only building system in America with structural strength and the unique benefit of Hebel AAC.
It will make a permanent change in the way you build and design.



Prefabricated metal stud walls sheathed with two inch Hebel Autoclaved Aerated Concrete (AAC) Panels, plastered and painted. Erected as an architecturally finished curtain wall. Hebel Metal can be finished very easy with any type of finish systems meeting any architectural requirements.

Allow The Creativity An Architect Desires - Save time and money

A new High-Strength structural AAC system for speed and non combustible construction

What is Hebel Metal?

Hebel Metal is a specialized structural system offering solutions to the construction industry through its unique material properties and design flexibility.

Hebel Metal utilizes Hebel AAC (Autoclaved Aerated Concrete), metal stud framing, and metal stud components.

Interior and exterior walls are prebuilt and Hebel AAC cladding is applied and finished before erection, increasing erection speed and eliminating the need for scaffolding.

Hebel AAC floor panels, in conjunction with pre manufactured metal stud partitions with AAC cladding, comprise the structural system.

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

Builders enjoy how easy Hebel Metal is to work with. The resulting ease of assembly saves time and money. Rapid Installation with typical placement rates of 500 sf of wall panels/hour and 350 sf floors/hour.

2. Quieter, Safer Nights. Acoustic performance.

A system with an effective sound transmission barrier between external and internal environments of the building. The Hebel Metal system is a superior acoustic insulating system that creates a sound barrier between floors and walls.

3. Design flexibility.

Hebel Metal can be easily cut and routed to suit design and architectural feature requirements.

Hebel Metal is developed for more than 4 – stories high rise buildings (residential units, hospitalities, schools or hotels) that harness the benefits of lightweight construction where thermal, acoustic and fire properties and energy efficiency are desired.

4. Strength and security.

Corrosion protected steel-reinforced AAC panels provide a high degree of strength, durability and security.

5. 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.

6. Non-Toxic - as with all Hebel products.

Safer materials are better materials. Hebel Metal 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).

7. Less wastage.

Greatly reduced waste as panels can be custom made to length requirements. Fewer waste bins and less crane movements help save time and money.

8. Lightweight, Yet Extremely Strong And Durable.

Hebel AAC manufacturing process creates an ultra-light concrete with a unique cellular structure. Hebel AAC is an unbeatable combination of strength and durability with extreme lightness for ease of use and workability.

Technical Services To Ensure The Correct Application.

All the technical support you need is available in application, design, engineering and interfa-



ce. Our personnel have the experience working with Hebel Metal and provide superior customer support. We'll ensure you get the most efficient, most appropriate and most economical solution to your specific construction needs.

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 installation. If needed,

we will provide an on-site Construction Supervisor to assist you during on-site installation.

Our guiding principle is producing materials with safety in mind, because in Educational, Hospitality, Multi-Family and Commercial construction, buildings must protect human life, goods and property of great value.

Those who build with us can rely on our quality and know that using Hebel Metal will pay off from the very beginning.



Hebel AAC Floor Planks, no gyp topping required. Ready to receive floor and ceiling finishes directly to Hebel AAC.

