Technical Sheet and Installation Guide Hebel® Masonry Components Autoclaved Aerated Concrete

German
Technology



About us

Xella Aircrete North America, the leading manufacturer of Hebel® Autoclaved Aerated Concrete (AAC) is an amazingly innovative building material that has been used in Europe for more than 80 years and in the US for more than 15 years. Products and systems have been developed for all types of the construction industry: Industrial, commercial, high-rise buildings, schools, hospital and more.

Hebel® AAC is a lightweight concrete that is formed into blocks and reinforced panels for a wide range of loadbearing and non-loadbearing construction applications. It is manufactured from sand, cement, recycled material, lime, gypsum, aluminium paste and water. It is moulded, cut and steam pressure cured in an autoclave before being packed, readyfortransport.

Hebel® AAC delivers more benefits than the traditional materials such as strength, acoustics, fire and pest resistance and is installed faster, saving valuable construction time. It has a unique combination of thermal mass and insulation providing a more comfortable living environment.

Why Hebel

One of the worlds leading manufacturer of Hebel autoclaved aerated concrete (AAC), Xella Aircrete North America is transforming the building industry with Hebel, its ultralightweight concrete.

Committed to providing the United States with environmentally responsible building products that conserve material and energy usage, Xella's Hebel Aerated Concrete is recognized as the largest producer in Europe by capacity based on management estimates based on different sources and member of the Green Building Council. In addition, it has a high UL rating for fire resistance.

Xella Aircrete North America is a division of Germany-based Xella International.

More than 6.000 employees for Xella's total 91 plants and offices throughout 30 countries worldwide, including North America, Europe and Asia.

Hebel Aerated Concrete provides contractors with strong, easy-toinstall blocks and reinforced panels that are one-third the weight of traditional concrete and replace traditional multi-step construction processes. In addition, Hebel is energy efficient, fire resistant and long lasting, which, over time, will reduce energy, insurance and maintenance costs to building owners. A wide range of industries can benefit from Hebel's custom blocks and reinforced panels, including those in the commercial, educational, hospitality, industrial, institutional, governmental and residential markets



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 HEBELAAC.



Structural Performance

Strength can resist wind pressures without reinforcement. Shear wall strength can resist lateral loads. High impact resistance.



Fire Resistant

HEBEL AAC has proven to remain fully intact and withstand the stress of fire for up to 4 hours without any impairment to its stability. Even under intense heat, HEBEL AAC remains tightly sealed against smoke and gas, emitting no toxic fumes.



Acoustic Insulation

The solid wall construction of a building made of Hebel AAC provides exceptional acoustic insulation. Its porous structure and high surface mass, coupled with its ability to dampen mechanical vibration energy, greatly reduces outside environmental.



Resistance to humidity

Your works are always protected against moisture. It allows the passage of water vapor, reducing condensation. It is an inert material.



Green Building

Hebel and green building attributes

- Recyclable, inert & non-toxic.
- Energy saving, manufacturing through occupancy.
- Excellent life-cycle cost.
- Durable, natural finish options.
- Supports LEED credits.

Add up USGBC LEED Credits with Hebel

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 can not 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



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Hebel® Masonry Components Autoclaved Aerated Concrete

Uses and applications

Hebel® Masonry Components are used to bluid reinforced load-bearing and nonload-bearing exterior and interior walls for residential and residential, commercial, industrial and fire and shaft walls, commercial and industrial.

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.





Application:

- Commercial
- Residential
- Industrial

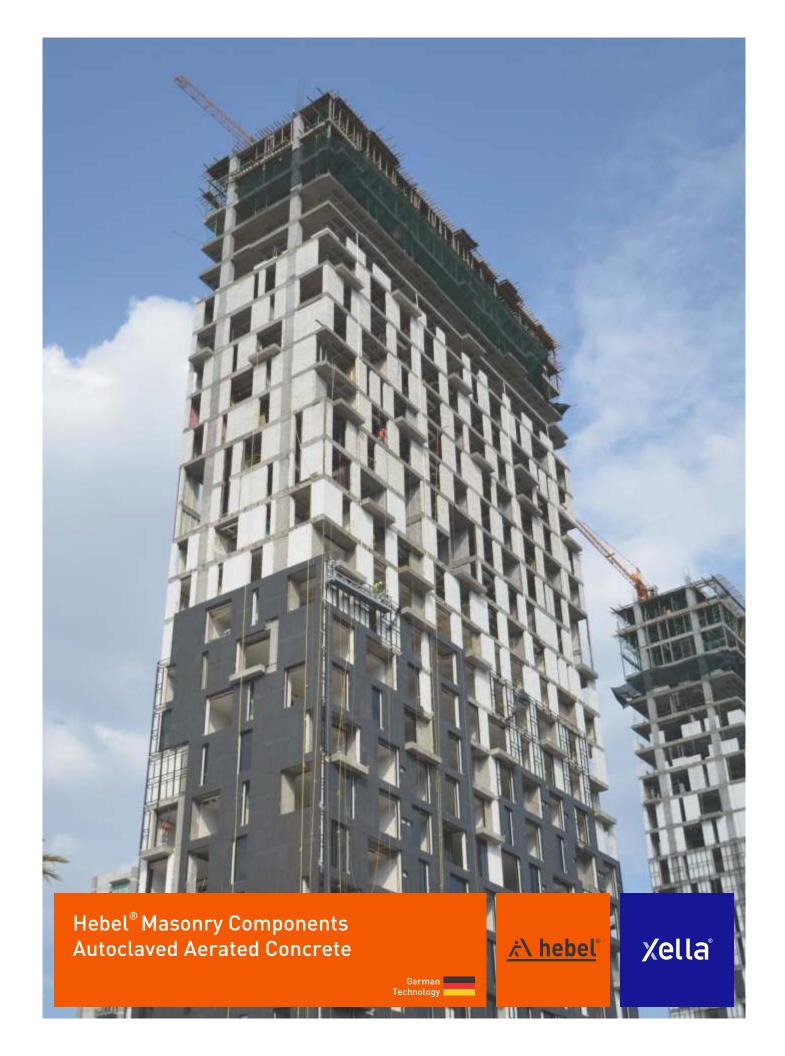
Certifications:

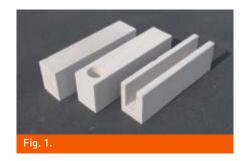
NOM, ONNCCE, ASTM, UL, IAPMO, ACI, USGBC, TDI.

More benefits of Hebel® Masonry Compoments

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







1 Technical Sheet

1.1 Hebel® Masonry Components

General Features

Hebel® Autoclaved Aerated Concrete (AAC) Masonry Components (Solid Block, Cored Block and U-Block) are lightweight, fire resistant, fast and easy to install and provides lifelong superior thermal insulation. Hebel® AAC Masonry Blocks are produced in two different strength classes: AAC4 and AAC6.

Uses

Hebel® Masonry Components are used to build reinforced load-bearing and nonload-bearing exterior and interior walls for residencial and multi-family housing, hotels, hospitals, office buildings, fire and shaft walls, comercial 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.

Dimensions						
Block	Solid Block	Cored Block	U-Block			
Length: [1]		24 in				
Height: [1] [2]		8 (7-7/8) in				
Thickness: [1] [3]	4, 5, 6, 7, 8, 10 and 12 in	4, 5, 6, 7, 8, 10 and 12 in 5, 6, 7, 8,				
Strength Class:	AAC	C-4 and AAC	C-6			

⁽¹⁾Tolerance ± 1/8", ⁽²⁾ (Exact dimension), ⁽³⁾ Nominal Thickness. Product manufactured according to ASTM C1693-11

Characteristic	Unit	AAC-4 Class	AAC-6 Class
Comprenssive Stregth (f´aac)	psi	580	870
Nominal Density	pcf	31	37
Design Weigth	pcf	37	45
Drying Shrinkage	%	0.02	0.02
Thermal Expansion Coeficient	K^{-1}	8 x 10 ⁻⁶	8 x 10 ⁻⁶
Modulus of Elasticity	psi	295,000	377,000
Modulus of Rupture (MOR)	psi	115	142
Allowable Bearning Stress	psi	348	523

Table 1: Physical and design properties.

Hebel [®] Block Pallet										
Thickness*	Solid Block			Co	Cored Block			U-Block		
in (in)	pce	ft ²	ft ³	pce	ft ²	ft ³	pce	ft ²	ft ³	
4 (3.937)	180	236.3	77.5	-	-	-	-	-	-	
5 (4.921)	144	189.0	77.5	144	189.0	77.5	108	216.1	58.2	
6 (5.906)	120	157.5	77.5	120	157.5	77.5	96	192.1	62.1	
7 (6.890)	96	126.0	72.3	96	126.0	72.3	72	144.1	54.3	
8 (7.874)	84	110.3	72.3	84	110.3	72.3	72	144.1	62.1	
10 (9.843)	72	94.5	77.5	72	94.5	77.5	56	112.1	60.3	
12 (11.811)	60	78.8	77.5	60	78.8	77.5	48	96.1	62.1	

*Nominal Thickness (Exact Thickness), Height= 8 (7.875)", Length= 24"

Table 2: Hebel® Block packaging.

Shipping							
Equipment	Capacity	Dimen	sions	Platform			
		Platform (ft)		Single			
	lb (Ton)	Length	Wide	Pallet ⁽²⁾	ft ³		
Platform (Flat Bed) Trailer (1)	44,100 (20)	40	8	14	1012		

⁽¹⁾FOB Shippings (origin or destination), ⁽²⁾ e.g. Solid Blocks 8" (AAC-4)

Table 3: Trailer load capacity.



Hebel [®] Cored Block							
Thickness*	DiamØ	d_1	d_2	d ₃	Volume		
(in)	(in)	(in)	(in)	(in)	ft³/yd		
5	2.76	2.46	1.08	20.18	0.1243		
6	3.54	2.95	1.18	19.49	0.2054		
7	3.54	3.44	1.67	18.80	0.2054		
8	4.33	3.94	1.77	17.91	0.3069		
10	4.33	4.92	2.76	16.93	0.3069		
12	4.33	5.91	3.74	15.94	0.3069		

Table 4: Hebel® Cored Block dimensions.

Hebel [®] U-Block							
Thickness*	a	b	С	d	Volume		
(in)	(in)	(in)	(in)	(in)	ft³/yd		
5	1.48	1.97	1.48	2.17	0.2341		
6	1.48	2.95	1.48	2.17	0.3512		
7	1.67	3.54	1.67	2.17	0.4214		
8	1.67	4.53	1.67	2.17	0.5385		
10	1.87	6.10	1.87	2.17	0.7258		
12	2.36	7.09	2.36	2.17	0.8428		

Table 5: Hebel® U-Block dimensions.

Thermal Conductivity					
Thermal Conductivity	Cla	SS			
Steady-State	AAC-4	AAC-6			
	0.9124 BTU-in/ft ² -h- ⁰ F	0.9811 BTU-in/ft ² -h- ⁰ F			

Unit: BTU = british thermal unit, in = inches, ft = pie, h = hour, °F = grados fahrenheit

Table 6: Hebel® Block thermal conductivity.

Acoustic Performance							
Assembly Type	STC	Report No.					
Hebel® 6" Wall AAC-4 Unfinished	44	AS-TL958AX					
Hebel® 8" Wall AAC-6 Unfinished	50	AS-TL1026AX					
Hebel® 10" Wall AAC-4 Unfinished	50	AS-TL978AX					
Hebel® Double 5" Wall AAC-6 (airspace 4", no fill) Unfinished	1 60	AS-TL962AX					

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

Table 7: Hebel® Block acoustic performance.

Fire Performance		
Wall Components Class AAC-4 and AAC-6	Fire Rating (Hours)	UL Design Number
Non-load bearing Hebel® Block Wall 4" min. (Solid)	4	U919
Load bearing Hebel® Block Wall 6" min. (Solid)	4	U919
Load or non-load bearing Hebel® Cored Block Wall 8" min.	4	U919
Fire protection for existing column (4" Hebel® Block)	4	X901

Note: Testing performed at Underwriters Laboratories, Inc., Northbrook, IL under ASTM E119 (UL/ANSI 263) "Fire Tests of Building Construction and Materials". Table 8: Hebel® Block fire rating.

2 Design Considerations.

2.1 General Considerations.

- Hebel[®] Masonry Components (block units) can be used to build load-bearing or nonload-bearing walls. Masonry walls built of Hebel® AAC Masonry Components must be designed following quidelines established by IBC Chapter 21, and Chapter 11 of the Building Code Requiremets for Masonry Structures (ACI 530/ ASCE 5/TMS 402).
- Hebel[®] Cored Block units (Cored Blocks) can be used to build pilasters designed according to Local Building Codes.

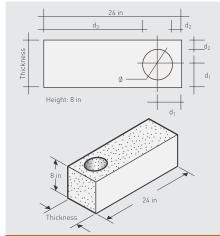


Fig. 2: Hebel® Cored Block for vertical reinforcement.

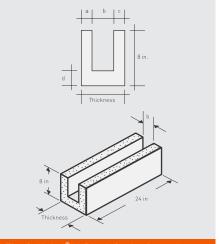


Fig. 3: Hebel® U-Block for horizontal reinforcement.



- Hebel® U-Block units can be used to build bond beams and lintels (to span door and Windows openings).
- Special considerations for construction located on seismic areas must be followed in accordance with section 2106 of the IBC Code.
- Control joints on Hebel[®] Masonry AAC reinforced walls must be placed at máximum 16 ft o.c. (see Fig. 6 and 20)

3 Installation Guide.

Before Installation Hebel® **AAC Masonry Components**

3.1 Check Foundation

Foundation must be designed according to Local Building Codes.

Reinforced Masonry requires rebars for pilasters, vertical reinforcement (see Fig. 6). Rebar spacing must be according to Local Building Codes, IBC and ACI Codes. At opening locations (doors, Windows, etc), vertical rebar for pilaster must be placed on both sides (or less than 2 ft) of window and door openings (see Fig.

Before concrete is poured, check slab dimensions and reinforcement to comply with construction drawings. Ensure the pipes, drains and other penetrations trough the slab have been installed properly.





A brick ledge is recomended for the exterior walls (see Fig. 8).

Hebel® Masonry Components installations will be easier on a level slab.

3.2 Receiving and Distribution of Hebel® Wall Units

Carefully unload the Hebel® pallets using an all terrain forklift. Rubbing between pallets can cause damage to some pieces. Place pallets around the slab (above ground level) and close to work area (see Fig. 4 and 5).

3.3 Installation Requirements

The actual list of tools, equipment and other materials will depend on type of proyect and workforce.

Tools:

- Hebel[®] Notched Trowel
- Rubber Mallet (24 oz min).
- Brick Trowel.
- Masonry Level.
- Masonry Scrub Brush.
- Sanding Float.
- Hebel® Plastic Bucket.
- Spatula.
- Chalk-Line.
- Nylon Construction Line.
- Wooden Line Blocks.
- Tape Measure.

Equipment:

- ½" Power Drill
- Stirrer for Power Drill.
- Hebel[®] Hand Saw.
- Hebel[®] Square.
- Hebel® Electric Band Saw
- (optional).
- Hebel[®] Chasing Tools.
- 41/2" Angle Grinder.
- Safety Equipment (Hard hat, faceshield, goggles, dust mask, ear plugs, gloves, safety shoes, etc).

Other Materials:

- Hebel® Metal Strip Connectors.
- Fiberglass Mesh.
- Backer-rod & Caulking.
- Cement-Sand Mortar.
- Hebel® Thin Bed Mortar.
- Hebel[®] Repair Mortar.
- Hebel[®] Stucco
- Hebel[®] Rustic Finish.
- Base-Coats. Textures. etc.
- Anchors & Hebel® Nails.





3.4 Mixing Hebel® Thin Bed Mortar

Hebel® Thin Bed Mortar is prepared in a plastic bucket, adding clean water (for half bag of mortar add approximately 1.1 gallons of water) and mix with a stirrer using a power drill. Remix before application.

The consistency should allow mortar to flow easily through a notched trowel, leaving the shape of the teeth in the mortar bed (see Fig. 15). Mortar workability time is 4 hours.

3.5 Installing Hebel® Cored Block for Pilasters in First Course

A simple way to build pilasters is by using Hebel® Cored Block units. They should fit over a rebar that is sticking up from the foundation, according to construction drawings. Optionally, if rebar is not embedded or misplaced. drill a hole into the slab, fill up the hole with epoxy adhesive and insert the rebar (see Fig. 8).

3.6 Hebel® Masonry **Components Installation**

a. Mark and Level the Slab

Once the foundation is ready, it will be necessary to mark (using a chalk line) the location of the walls, including door openings, in accordance with construction drawings. It is recommended to apply a water proofing barrier on the slab anywhere Hebel® Block Components will be installed (see Fig. 8).



Check around the reference wall lines marked on the slab to locate the highest point. At this point, add ½" (of cement-sand mortar bed) to 7 7/8" (of Hebel® Block height) to obtain the "top of leveling course".

It is recommended to set the string line level from the "top of leveling course point" to assure level of first course. The string should be stretched, hooking the line blocks properly. At the same time, the line should be checked using a line level.

b. Laying the First Course (Leveling Course)

Using a brush, clean block surface before installation. Lay the first course over a semi-dry cement-sand mortar leveling bed (minimum ½" thickness, maximum 2" thickness) see Fig. 10.

Corner block are laid first and the first course should be completed before second course installation. Once the corner blocks are placed, use a brush to clean next block surface before mortar application. For next blocks, apply Hebel® Thin Bed Mortar.

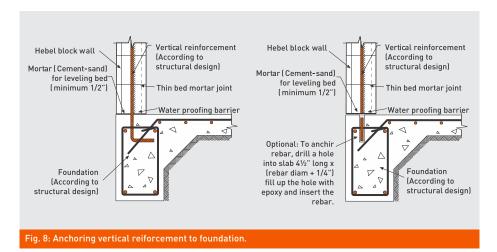
c. Cutting Block (Adjustments and Chases)

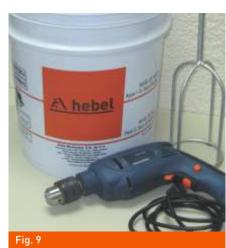
A Hebel[®] handsaw or a band saw can be used to cut the block to specific lengths (adjustment pieces) see Fig.

If required, cut a chase for utilities not exceeding the máximum depth of chases (see Section 3.7 - Utilities Installations).

d. Placing Control Joints in First Course

The location of control joint should be specified in construction drawings. Hebel® joints are vertical joints taken











through the full wall thickness and from bottom (first course) to top. The width of the control joints should be 3/8" thick but no more than ½ thick. The maximum space between Hebel® joints should be 15 ft (see Fig. 14 and 201.

e. Laying the Subsequent Courses

For subsequent courses, use only Hebel® Thin Bed Mortar on all joints between Hebel® Blocks (see Fig. 15). Use a brush to clean the block surface before mortar application. After block installation, remove spilled mortar using a spatula. Minimum overlapping of vertical joints between layers should be 4 inches (see Fig. 20). It is recommended to check alignment and level after each unit installation to achieve a plumbed wall.

Hebel® metal strip ties should be placed every two courses at:

- Connection of secondary walls to main walls.
- Connection of walls to concrete columns.



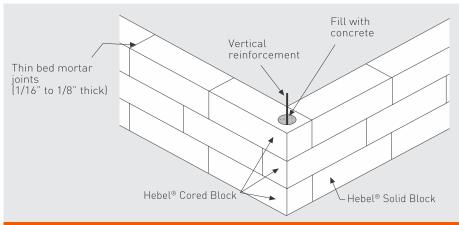


Fig. 11: Pilaster located at corner.

f. Installing Hebel® Cored Block in Subsequent Layers for **Pilasters**

It's very important to check that Cored Block holes between courses are properly aligned when installing. Make certain that all rebars attaches to bars sticking up from the foundation comply with reinforcement specifications.

g. Control Joints in Subsequent Layers

Metal strips folded at midpoint (Vshaped) should be set at every 2 courses unless there are two pilasters (vertical reinforcement) on both sides of control joints (one pilaster each side) and less than 10" from control joint (see Fig. 20). Once the wall is built, fill the gap using backer-rod and seal with caulking.

h. Fill Up Pilasters

Procede to pour concrete (f'c= 3,000 psi min) into pilasters (cylinders) to complete wall Fig. 15 installation (see Fig. 18).

i. Building On-Site Lintels Using U-Blocks

When the use of Hebel® Lintels are not possible, and depending on the span and service load, lintels over door and windows openings can be made on site using Hebel® U-Block. Install temporary shore and prop supports before putting U-Block in place. Apply Hebel® Thin Bed Mortar to the vertical joints (see Fig. 16). Once the U-Blocks are set, place rebars according to construction drawings and with concrete (see Fig. 19 and 20).

"Please refer to our SDS for further information":



Caution: Use safety gear: Hard hat, dust mask and goggles to avoid excessive inhalation of dust and protection of the eyes when handling Hebel® Masonry Components.



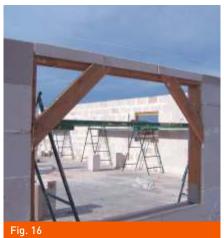


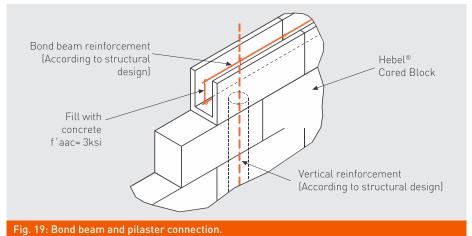






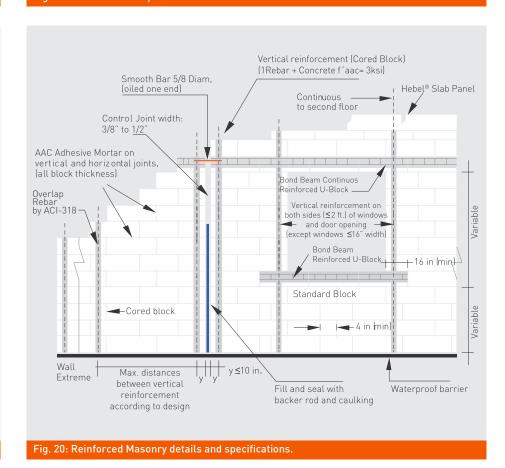












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j. Installing U-Blocks to Build **Bond Beams**

Generally, bond beams are required through the top of the exterior and interior walls. Lay U-Block course, applying Hebel® Thin Bed Mortar on all joints (vertical and horizontal joints). At each pilaster location, drill a hole in the bottom side of the U-Block so the vertical bars can be attached into the bond beam, to comply with the reinforcement requirements.

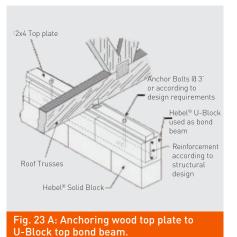
Before pouring concrete, place rebars and anchor bolts according to construction drawings (see Fig. 23).

3.7 Utilities Installation After the Walls are Built

For electrical conduits and piping installation, cut a chase using an electrical router or a chasing tool. To lodge electrical boxes, a power drill (drill bits) or router can be used (see Fig. 24 and 25).

When the required depth of chase is bigger then maximum depth recommended, use additional Hebel® Cored Blocks to lodge the pipes or interrupt wall continuity (see Fig. 26).

After installation, use Hebel® Repair/Patching Mortar or cementsand mortar to fill the chases (see surface patching). During finishing step, place fiberglass mesh over the repair area according to recommendations (see Section 4 and Fig. 29).



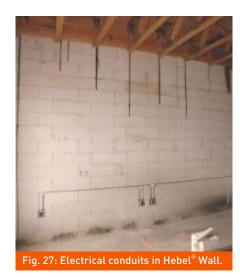


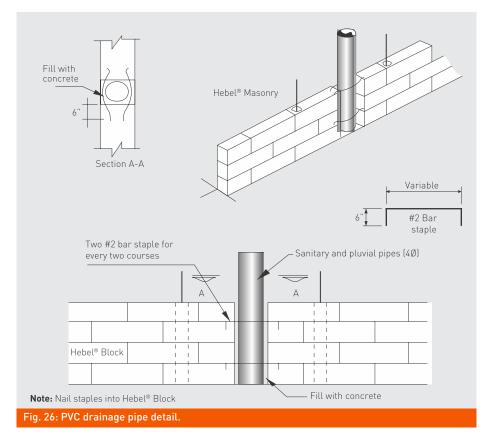






U-Block top bond beam.







4 Renders and **Finishes**

4.1 Products

Surface Patching

Rasp block joints and other areas where the AAC surface is out of plane. Surface must be clean, free of dirt, oil and any other matter. Loose or damaged material must be removed. Use Hebel® Thin Bed Mortar, Repair Mortar or cement-sand mortar to patch chips, breaks, chases for utilities and other imperfections on the wall aurface. Products are applied using a spatula or trowel.

Before application, clean surface using a scrub brush. After application, a rubber float is commonly used to smooth the Wall Surface.

Fiberglass Mesh

Hebel® fiberglass mesh should be installed directly over one layer of render (embedded into first coat of plaster, e.g stucco) in all control joints, around windows, doors, and through utility locations (see Fig. 29).

Finishes

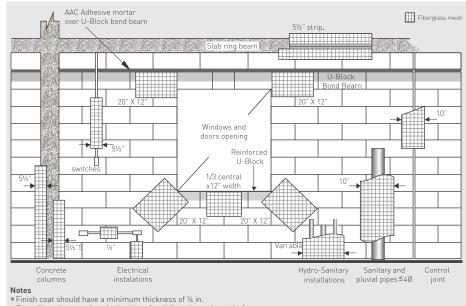
Hebel® masonry walls can be finished with Hebel® stucco, acrylic texture coats, or a combination of stucco as a base-coat and acrylic texture as a finish coat, also laminated stones, ceramic or clay tiles, concrete pieces and ornamentals products.

Base-Coat

Apply a layer (1/4" thickness minimum) of stucco (cement-based or acrylic) or acrylic base-coats (Hebel®), according to manufacturer instructions. Reinforce base-coat using fiberglass mesh embedded partially (see Fig. 29) or in 100% of the surface area according to base-coat manufacturer.

Finish Coat

Apply ready-mix acrilic based products as decorative and protective finish coat (top-coat). Apply finish directly over the primed wall surface. Apply product by troweling with a stainless steel finishing trowel, depending on the finish specified.



Place fiberglass mesh on both sides of wall (interior and exterior).
 Install fiberglass mesh embeded into finish thickness or a layer of AAC adhesive mortar

Fig. 29: Fiberglass mesh installation.

5 Fasteners

Fasteners

Anchors used with AAC shall be made of plastic or nylon. Wood, fiber, lead, metal or expansión anchors are not recommended. Use power drills to make holes for fasteners and masonry drill-bits recommended (diameter) on table 9 (drill-bit diameter may differ from recommended by fastener manufacturer; specifications have been adapted for AAC). Percusion drilling or inverting the rotation direction when drilling shall be avoided. The anchor shall penetrate tightly in the hole to avoid rotation when placing the screw. When using Fischer anchors, the external finish layer surrounding the hole should be removed to allow the anchor to fully penetrate into the AAC element.

Fig. 30: Minimum screw length.

Hebel® AAC Nail:

Hebel® galvanized AAC nails are designed specifically to provide a definitive anchorage in the AAC. Hebel® AAC nails are directly hammered-into the AAC element - no drilling is required.

Screws

Always use screws of the diameter recommended on table 9. Minimum length of screw is defined by the anchor length plus the thickness of the finish layer and the thickness of the element to be fixed

Precautions

Load values (pull-out strength) shown in chart shall be used only as a reference guide; field testing is suggested according to project requirements. The load values (lb) shown in chart are for direct pull-out and a safety factor of 5 is included in them. Full penetration of screws into the anchor is assumed to obtain such load values.



Fasteners & Nails		Ancho	r / Nail	Drill Bit for Masonry	Screw	1	Value* strength)
Autoclaved Aer		Length	Ø Diam			AAC-4 Block	AAC-6 Panel
Technical Sheet		in	in	Øin	Øin	Lb	Lb
a	Hebel AAC Nails®				Available	at Xella AAC	Texas, Inc.
9	Hebel AAC Nail 4 in. [3] Min. Penetration: 3 in.	4"	1/4"	Fixed directly	Not Required	51	88
	Hebel AAC Nail 6 in. (3) Min. Penetration: 5 in.	6"	5/16"	with hammer	Not Required	88	137
	Universal Plastic And	hor			Available	at Construc	tion Depots
	Anchor TP 14 - 1/4"	11/8"	1/4"	1/4"	#10	22	26
	Anchor TP 56 - 5/16"	11/2"	5/16"	5/16"	#12	26	31
	Anchor TP 38 - 3/8"	2"	3/8"	5/16"	1/4"	44	62
	Note: For use in solid walls (Anclo® c	or similar).					
	THORSMAN®				Available	at Construc	tion Depots
	Anchor Red TP 2X [4]	13/8"	1/4"	3/16"	#8	37	
		44/11		1/4"	#10		42
	Anchor Brown TP 2B [4] Anchor Blue TP 3 [4]	11/2"	5/16"	1/4"	#10	49	62
		13/4"	3/8"	5/16"	#12	73	84
	TOX VLF®			No pre-drilling for	itable at ww	w.demandpr	oducts.com
	Anchor 6/70 (5)	23/4"	1/4"	AAC-4 Class	Anchor	66	
	Anchor 8/80 - 8/135 (5)	31/8"+	5/16"	5/16"	with screws	102	
	Anchor 10/100 - 10/160 (5)	4"+	3/8"	3/8"	(pre- assembled)	120	
	HILTI® Plastic Anchor	'S		Available at	Hilti Shops a	and Construc	tion Depots
	Anchor HUD-1 (10x50) ⁽⁴⁾	2"	3/8"	3/8"	5/16"	71	90
065	Anchor HUD-1 (12x60) ⁽⁴⁾	23/8"	1/2"	7/16"	3/8"	128	185
	More Products: www.us.hilti.com	l	I	I	I	I	
GB14 S10H80R	FISCHER®				Available	at Xella AAC	Texas, Inc.
GB10	Anchor GB 10 (3)	2"	2/0"	3/8"	1/4"	126	
The second			3/8"	1/2"	1/4"		104
Marie A	Anchor GB 14 (3)	3"	5/8"	5/8"	3/8"	165	225
	Anchor S10H80R (3)	33/8"	3/8"	3/8"	5/16"	123	150

Notes:

⁽¹⁾Anchors without screws, except TOX VLF anchors. ⁽²⁾Drill bit diameter change between AAC-4 y AAC-6 classes. Notes: [3] Available at Xella Aircrete North America, Inc. [4] Available at Hilti Shops, Home Depot, Lowe's, etc. [5] Available at www.demandproducts.com [6] For AAC-6 (Block & Panel) use 1/4" drill bit. ^[7]For AAC-6 (Block & Panel) use 1/2" drill bit. *Safety Factor [SF]=5. Use masonry drill bits.Anchors do not include screws (except TOX anchors).

IMPORTANT

Information has been adapted considering Autoclaved Aerated Concrete (AAC) material and may differ from original fastener manufacturer.

Table 9: Anchoring into Hebel® AAC Masonry Components.



Xella Aircrete North America, Inc 833 Isom Rd.

San Antonio, TX 78216

Phone (210) 402-3223 Fax (210) 402-6390

1-877-41-HEBEL hebel-usa@xella.com

www.hebel-usa.com



