

Megaaccrete Fence Panel

Residential & Commercial Fence

Division 03
Autoclaved Aerated Concrete Reinforced Panels

1. DISTRIBUTOR

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2. PRODUCT DESCRIPTION

The Megaaccrete Fence Panel is an intermediate-post system that utilizes large-format, steel reinforced autoclaved aerated concrete (AAC) panels, along with concrete masonry, cast-in-place concrete, or steel posts. This system provides an attractive privacy barrier, offering a flexible, economical, fast-to-construct, durable, and long-lasting hard-wall alternative to conventional precast concrete and masonry block wall systems.

Product Sizes:

Megaaccrete Fence Panels are available in a standard size of 3 inches (75 mm) in thickness, 24 inches (610 mm) in height, and 96 inches (2,440 mm) in length. Other custom lengths can be ordered as needed. The long edges of the panels may be ordered with either a flat or chamfered edge.

- **Thickness:** 3 inches (nominally 75 mm)
- **Width:** 24 inches (610 mm)
- **Length:** 96 inches (2,440 mm)

3. TECHNICAL DATA

Composition and Materials:

Megaaccrete Fence Panels are precast, lightweight autoclaved aerated concrete panels reinforced internally with a double layer of welded steel mesh.

AAC Class*	AAC-4
Dry Bulk Density	31 lb/ft ³
Design Weight	37 lb/ft ³
Compressive Strength	580 psi
*Manufactured complying with ASTM C1693, and C1694.	

Applicable Standards:

The Megaaccrete Fence Panel system has been evaluated by the International Association of Plumbing & Mechanical Officials Uniform Evaluation Services (IAPMO UES) and is listed in evaluation report ER-405. AAC wall panels are covered in the American Concrete Institute (ACI) publication ACI 523.4R-09: Guide for Design and Construction with Autoclaved Aerated Concrete Panels.

4. INSTALLATION PROCEDURE

The system can be installed using conventional construction tools, equipment, means, and methods. Panels can be cut with rotary saws equipped with diamond blades suitable for cutting the internal steel reinforcement. Consult project plans and the Megaaccrete Fence Panel installation guide for limitations on cutting and modifying panels.

Fence piers, columns, and panels must be engineered for the specific soil and wind load requirements of the project site, as specified by the project engineer of record. Common wall heights for the standard 8 feet long panel are 6 to 8 feet (3 to 4 panels), with a maximum height of 8 feet (4 panels).

Fence posts (or columns) are constructed from H-profile masonry blocks or cast-in-place concrete of similar size. The depth of the slot for supporting the panels is 2 to 3 inches minimum.

Dig a hole for the column piers with the diameter and depth specified in the engineering plans, using an auger. Place the reinforcement bar cage for the pier, create a form for the footer, and attach vertical dowels for the fence column to the cage. Fill the pier and footer with the appropriate structural concrete.

Install the H-profile masonry block and add reinforcement bar and grout as necessary. Form, reinforce, and pour concrete if using a cast-in-place concrete column. Consult engineering plans for design specifications.

Once the columns are complete, lift the Megaaccrete Fence Panels into place with a forklift or jib crane, using straps or an appropriate lifting clamp. Set the first panel onto the concrete footer, ensuring it is fully supported and level. Add Megaaccrete Thin Bed Mortar to the top of the previous panel before placing subsequent panels. Remove excess mortar to maintain clean panel joints. Use Megaaccrete

Patch Mortar to fill any chips or dents in the panels, texturing the patch while still pliable with a brush or similar tool to match the AAC surface.

Panel finishes are not required but are recommended to provide a more consistent appearance and to make cleaning and maintenance easier. Acrylic paints are cost-effective but may not completely hide changes in surface texture. High-build spray-applied concrete finishes are ideal as they are cost-effective, quick to install, available in multiple colors and textures, and provide a very uniform final finish. Stucco-type finishes are an aesthetic and high-quality option for uniform color and texture.

Materials Required:

To complete the installation of Megaacrete Fence Panels, the following minimum materials are needed:

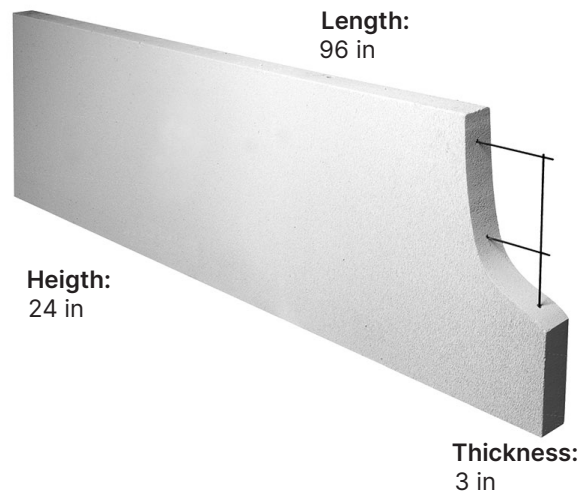
- Megaacrete 3" Fence Panels
- Megaacrete Thin Bed Mortar
- Megaacrete Patch Mortar

Provided by others:

- Column pier and footer materials
- Fence column materials
- Panel-column connectors (optional)
- Concrete surfer, paint, or stucco finish

5. HANDLING AND STORAGE

Megaacrete AAC products are durable and long-lasting building materials once installed. However, due to being up to 75% lighter and having lower compressive strength than standard concrete, AAC products can be chipped or cracked if not handled, transported, and stored correctly. Never lift panels directly with a forklift; instead, lift them from the supplied pallet. Chips can be patched with Megaacrete Patch Mortar; however, sections of panels that have cracked completely through should be cut off and discarded. Pallets can be stacked but must be stored on flat, level, and firm ground.



6. WARRANTY

Megaacrete provides a limited product warranty for its manufactured products. However, the company does not warrant or guarantee the installation of these products, the results obtained from their use by others, or other factors affecting product performance that are beyond the company's control. A sample of the Megaacrete Limited Warranty Statement is available upon request.

7. TECHNICAL SUPPORT

Megaacrete offers technical assistance with design and engineering specifications, technical information, installation manuals, performance test data, and construction support. To request assistance, please email support@megaacrete.com or call (210) 402-3223.

Megaacrete 3" Fence Panel	
Item number	PH9595005001
AAC Class	AAC-4
Dimensions	3×24×96 inches 75×610×2,440 mm
Panel area	16.0 ft ²
Design weight	11.06 lb/ft ²
Panel weight	180 lb
Panels per pallet	10
Area per pallet	160 ft ²

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