



PRODUCT DESCRIPTION

BASIC USE An architectural concrete stone masonry veneer unit used in masonry veneer construction for both interior and exterior applications. For residential, commercial and institutional applications.

Typical Properties:

1. Compressive strength (ASTM C90): minimum compressive strength 2000 psi

COMPOSITION AND MATERIAL Concrete masonry units are manufactured from natural stone aggregates, sand and portland cement. Integral polymeric water-repellent is added for color enhancement and efflorescence control.

SHAPES AND SIZES General Shale concrete masonry units are available in 4" nominal bed depths. Nominal face dimensions are 4" x 24", 8" x 24", 12" x 24", and 16" x 24" (high) x (length).

TOLERANCES Standard units: length, width, and height $\pm 1/8"$ from specified. General Shale concrete masonry units are inspected to be sound and free of cracks, blemishes or other defects that would either affect the serviceability or strength of the unit, or become exposed once installed and visible when viewed from a distance of not less than 20 ft. under diffused light.

FINISHES Standard finishes are as follows:

Concrete masonry units are available in standard (smooth) textures. As a manufactured material, General Shale products are monitored for color consistency. Slight variations between batches may occur and it is recommended that the installer mix units from different skids during installation. Consultants should review samples prior to selecting a particular color and finish.

TECHNICAL DATA

APPLICABLE STANDARDS Required properties for concrete masonry units are described in ASTM C 90 Standard Specification for Loadbearing Concrete Masonry Units.

INSTALLATION

DELIVERY - General Shale Brick products are delivered to the site in protective packaging.

HANDLING - Lift skids with proper and sufficiently long slings or forks with protection to prevent damage to units. Protect edges and corners.

STORAGE - When product arrives on site, remove plastic packaging to allow for ventilation. Keep package covered loosely to protect against rain.

Store General Shale products in a manner designed to prevent damage and staining of units. Stack units on timbers or platforms at least 3" above grade. Place polyethylene or other plastic film between wood and other finished surfaces of units when stored for extended periods of time. Stored units should be covered if exposed

to extreme weather conditions.

INSTALLATION General Shale products must be installed using approved materials and techniques for each specific installation.

Construct in accordance with ACI 530-05/ASCE 5-05/TMS 402-05, Building Code Requirements for Masonry Structures in the United States, and any local requirements stipulated by the authorities having jurisdiction.

Construct masonry veneer with an adequate number of movement joints located to accommodate differential movement. Provide joint reinforcement to control cracking due to shrinkage. Refer to ACI 530 and the NCMA TEK notes for additional guidance.

Mortar joints between units in any direction should be nominally 3/8" thick. Mortar for above grade applications should be a type N masonry cement mix proportioned to a 1 : 2-1/4 – 3 ratio. This ratio refers to: 1 part Type N masonry cement (ASTM C270 Table 1)

- 2-1/4 – 3 parts masonry sand (ASTM C 144)
- Mortar for below grade applications should be a type S masonry cement mix proportioned to a 1 : 2-1/4 – 3 ratio. This ratio refers to:
- 1 part Type S masonry cement (ASTM C270 Table 1)
 - 2-1/4 – 3 parts masonry sand (ASTM C 144)

When properly combined with the appropriate quantity of water, it will produce a general-purpose mortar, exhibiting good workability and board life in its plastic state, and good durability and flexibility in its hardened state; and conforming to ASTM C 270-05a: Standard Specification for Mortar for Unit Masonry.

For additional information when constructing in cold weather refer to General Shale technical bulletins titled Cold Weather Recommendations and Cold Weather Admixtures.

AVAILABILITY AND COST

AVAILABILITY General Shale Brick products are available throughout the continental United States, as full-bed masonry units.

Availability and various product details (colors, textures etc.) may vary by location. Please consult with your General Shale sales representative.

Delivery times for orders will vary based on the complexity of what is required.

General Shale cannot be responsible for delays due to fire, acts of God, or any other cause beyond its control or which could not be reasonably foreseen.



Contact General Shale for a list of dealers in your area.

COST Quoted on a project basis for job-specific manufacturing to project requirements.

MAINTENANCE

General Shale brick products should have excess mortar removed from their faces by brushing as they are placed within the wall at the point of tooling.

Clean General Shale Brick products in accordance with the cleaning guidelines in General Shale Technical Bulletin Brick Cleaning Information. Various masonry detergents and cleaning systems can change the color of masonry products. Acid-based cleaning agents will darken the color of the masonry units.

Always pre-test cleaning agents and methods on the job-site mock-up panel or a small inconspicuous area of the wall. The Consultant and/or Owner should approve the test area prior to the start of full-scale cleaning operations.

General Shale does not recommend the application of water repellent or graffiti-proofing sealers to its masonry products.

TECHNICAL SERVICES

General Shale offers consultation services to assist with design, detailing and specification questions and with pricing. Enquiries are attended to promptly and without obligation.

RELATED REFERENCES

General Shale distributes an integrated technical information system, comprised of the following components:

- Sample detail drawings which are available in .pdf format.
- General Shale Technical Bulletins which are available in .pdf format.
- Architectural Catalog Shape drawings,
- BIA Technical Notes and NCMA Tek Notes.

All of these technical resources are available to be downloaded from the General Shale web site at www.GeneralShale.com.

General Shale also makes available samples for color and finish, coursing charts, and copies of test reports upon request.

