

Description:

The purpose of the section is to highlight the current applicable UMD Design Standards for the design, selection and installation of Unit and Brick Masonry products and use of cement based materials and aggregate.

Related Sections:

- 05 00 00 Steel

Effective Date:

January 1, 2023

Applicable Standards:

- **Brick:**
For reference standards refer to related provisions of ASCE, ACI & TMS.

General Requirements:

- **Unit Masonry:**
 - Brickwork, mortar and jointing for additions shall match the existing building; for new buildings on the UMD campus they shall conform to brickwork on adjacent building(s); Note that UMD Planning and Construction is required to review and approve all final color selections.
 - Special shapes or colors are prohibited. Any brick selections shall be from manufacturer's standard line, made from readily available clays and shales that are available for an indefinite period.
 - All brick shall be the same color throughout the unit. "Faced" brick applications are not permitted.
 - Concrete masonry units (CMU) shall be finish grade, fine textured, suitable for painting. Grade and texture shall be uniform throughout the project. Use lightweight aggregate block.
 - Exterior corners of interior partitions, walls, window jambs and door jambs (without wrap-around frames) for C.M.U.'s shall have a 1" radius.
 - Precast lintels shall have the same texture as the block; preferably made by the same manufacturer.
 - Horizontal joint reinforcement shall be "truss" type, galvanized, with deformed wire. Provide prefabrication corners and tees. Exterior wall reinforcement shall be hot-dipped galvanized; interior wall reinforcement may be mill -galvanized.
 - Materials for mortar shall be proportioned by volumetric measure only. Use mixing boxes or similar equipment. "Shovel measure" will not be permitted.
 - Mortar may be retempered once only. Mortar must be used within 1½ hours after initial mixing or discarded.
 - Specify conditions and limits for hot and cold weather masonry work.
 - Provide weather protection for all completed masonry work.
- **Brick Veneer Masonry:**
 - Selected brick should complement or match existing masonry utilized on the campus in style, texture and color. Coordinate brick selection with Capital Projects.
 - Preference is for the use of the originally specified brick when constructing additions that abut an existing brick building.
 - Acceptable manufacturers for selected brick are:
 - Category 1:
 - Redland Brick; Calvert (Cushwa), 103 Georgian
 - Glen-Gery Brick, Inc.; 250M Modular
 - Old Virginia Brick; #24 Colonial Full Range Frogged Modular
 - Category 2:
 - Redland Brick; Calvert (Cushwa), 237 Cambridge
 - Glen-Gery Brick, Inc.; 51DD-X Modular
 - Old Virginia Brick; Monticello Frogged Modular

Unit Masonry

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- Designers are required to identify three (3) manufacturers and product lines in construction specifications for other proposed and approved colors.
- Brick blend ratios shall be quantified in the specifications. Brick shall be blended at the factory or plant prior to shipping.