

## **Specifications**

### ***NMP ELITE CMU's (Filled & Polished Units)***

#### ***Ground Face Units***

##### **Part I – General**

##### **PRODUCT NAME**

**NMP ELITE CMU's**

##### **MANUFACTURER**

Nitterhouse Masonry Products, LLC  
(717) 267-4500  
P. O. Box 692  
859 Cleveland Avenue  
Chambersburg, PA 17201

##### **SUBMITTAL**

Submit color samples for selection from manufacturer's Color Selection Kit. Submit product literature, certifications, and test reports, full size sample(s) of each color specified.

##### **QUALITY ASSURANCE**

**Certifications:** All load-bearing CMU comply with ASTM C90. All non-load-bearing units comply with C129. All aggregates conform to ASTM C33. All sampling and testing shall be according to ASTM C140. All finished faces to be ground, filled with a cementitious filler, polished and sealed with a coat of VOC compliant acrylic resin sealer conforming to ASTM C744 standards

**Fire Resistance:** Fire rated for up to 2 hours. See hourly ratings required by NCMA TEK Notes, available at [www.nitterhouse.com](http://www.nitterhouse.com).

**Field Constructed Mock-ups:** Construct a sample panel, no less than 4' X 4' of units of each color and size to be used in the project.

**Delivery, Storage & Handling:** All CMU shall be delivered to the jobsite on stretch-wrapped wooden pallets. Cover with waterproof covering (e.g. tarpaulins) to protect the blocks from inclement weather. Handle blocks carefully to avoid breakage and damage to the finished surfaces. Protective foam shall be used to protect the faces. Store pallets in single stacks on level ground.

##### **Part II - Products**

##### **FINISHES**

**Specify exact type of finish required:** (Filled, polished and sealed CMU's) All finished faces to be ground, filled with an acrylic resin filler, polished and sealed with a coat of VOC compliant sealer conforming to ASTM C744 standards.

##### **SIZES AND SHAPES**

Specify exact sizes and shapes required. (See pages 14 and 15). Also specify if finished ends, scores, and chamfers are required.

**Standard finish dimensions** – 7 5/8" x 15 5/8" typical

**Bed depth sizes nominal** – 4", 6", 8", 10", & 12".

##### **SEALER**

All ground face CMU's are factory sealed with a VOC compliant water based acrylic resin sealer and conforms to ASTM C-744 standards.

It is recommended that a second coat of sealer be applied after final wash down to seal entire wall.

##### **INTERGAL WATER REPELLANT**

All Architectural CMU's are produced with Acme Shield integral water repellant. Acme Shield mortar admixture must be added to the mortar by the mason at a rate of 1-8 oz. bottle per 2 bags of mortar. Mortar admix must be purchased from block manufacturer.

##### **Part III - Execution**

##### **LAYING MASONRY WALLS**

Lay units using the best concrete masonry practices. Install only quality units; reject any defective units. Units should include uniform 3/8" wide joints on the completed side of the wall. Draw blocks from

4 different pallets at a time during installation to maintain a more uniform wall color. Refer to NCMA TEK 3-1A for Hot and Cold weather construction practices.

##### **INSTALLATION**

##### **Mortar Bed and Jointing:**

1. Lay units with full mortar coverage on head and bed joints.
  2. Tool all mortar joints when thumbprint hard into a concave configuration.
  3. Care should be taken to remove mortar from the face of masonry units before it sets.
  4. Tuck point the joints of scored units for proper appearance.
- Cutting:** Make all unit cuts with motor-driven masonry saws, using either an abrasive or diamond blade. Cut neatly and locate for best appearance

##### **FLASHING OF MASONRY WORK**

Install flashing at locations shown in the plans and in strict accordance with the details and the proper masonry flashing practices as outlined in the CONCRETE MASONRY HANDBOOK published by the Portland Cement Association.

##### **WEEP HOLES AND VENTS**

Install weep holes and vents at proper intervals (according to typical practice) at courses above grade, above flashing, and at any water stops over windows, doors, and beams.

##### **PROJECT / SITE CONDITIONS**

**Protection of Work:** Cover walls each day after installation to keep open walls protected and dry. After units are installed, they should be protected from damage by other trades performing operations that can stain or otherwise damage the finished surfaces by covering walls with plastic.

##### **INSPECTION**

The faces of all concrete masonry products shall be free from chips, cracks, crazes or any other imperfections that would detract from the overall appearance of the finished wall when viewed from a distance of twenty (20) feet at right angles to the wall with normal lighting, as per ASTM C90 or ASTM C129.

##### **CLEANING**

Keep walls clean during installation using brushes. Do not allow excess mortar or smears to harden on the finished surface. Harsh cleaning methods after walls have been erected may mar the surface of the blocks. Clean masonry units within 7 to 14 days of laying the wall. Failure to do this could result in harsh methods needed to remove mortar and debris; thus, resulting in damaging the finish of the product.

##### **SEALER**

If specified, sealer to be field-applied by a qualified applicator. All repairs are to be completed prior to sealing of masonry units. Refer to manufacturer for preferred sealer to be used.

##### **FINAL CLEANDOWN**

The recommended clean down would be to use clear water and a brush. If additional cleaning is required, the use of a detergent masonry cleanser formulated for concrete masonry may be used, strictly following the manufacturer's instructions including thorough pre-wetting of the walls and thorough rinsing. Do not use acid or abrasives on the finished surfaces. Failure to strictly follow manufacturer's instruction can result in permanent damage to the finished faces. High-pressure power washing is not recommended.

##### **MAINTENANCE**

Nitterhouse Architectural Concrete Masonry Units, properly installed and cleaned, need very little, if any future maintenance. Graffiti, paint, or stains might require the use of special cleaning agents. Contact Nitterhouse for specific cleaning recommendations.