

SECTION 04100
BRICK MASONRY

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Bricks for masonry.

1.02 RELATED SECTIONS

- A. Section 04065 – Masonry Mortar and Masonry Grout
- B. Section 04082 – Masonry Anchorage, Reinforcement & Accessories

1.03 REFERENCES

- A. ASTM C91 - Standard Specification for Masonry Cement
- B. ASTM C150 - Standard Specification for Portland Cement
- C. ASTM C216 - Standard Specification for Facing Brick
- D. ASTM E835/E835M - Standard Guide for Modular Coordination of Clay and Concrete Masonry Units
- E. International Masonry Industry All-Weather Council (IMIAC) - Recommended Practices and Guide Specifications for Masonry Construction.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site under provisions of Section 01600.
- B. Store and protect products under provisions of Section 01600.
- C. Protect cement from moisture and humidity

1.05 ENVIRONMENTAL REQUIREMENTS

- A. Cold Weather Requirements: IMIAC requirements.
- B. Maintain materials and surrounding air temperature to minimum 10 degrees C (40 degrees F) prior to, during, and 48 hours after completion of masonry work.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Portland Cement: ASTM C150, Normal – Type I, white color for facebrick and grey color for common brick
- B. Mortar aggregate: ASTM C144, standard masonry type; clean dry; protected from dampness, freezing, or foreign matter.
- C. Hydrated Lime: ASTM C207, Type S.
- D. Water: Clean and potable.
- E. Mortar Color: Mineral oxide pigment; chocolate brown color; “Great Stuff” manufactured by Acme Manufacturing Co. Ltd.
- F. Glen-Gery Bricks: Standard Size – 3 ⁵/₈” X 2 ¹/₄” X 8”

2.02 MIXES

- A. Mortar for Load Bearing Walls and Partitions: ASTM C270, Type S, using proportion method.
- B. Mortar for Non-Load Bearing Walls and Partitions: ASTM C270, Type N, using proportion method.

2.03 MORTAR MIXING

- A. Thoroughly mix mortar ingredients in quantities needed for immediate use in accordance with ASTM C270.
- B. Add mortar color in accordance with manufacturer’s instructions. Provide uniformity of mix and coloration.
- C. Do not use anti-freeze compounds to lower the freezing point of mortar.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install masonry in conjunction with Sections 04200.

3.02 FIELD QUALITY CONTROL

- A. Field testing will be performed under provisions of Section 04200.

END OF SECTION