

# **Technical Bulletin**



## **Brick Specification**

### Part I

#### **QUALITY ASSURANCE - Brick Tests**

1. All tests shall be in accordance with ASTM C-67 latest edition

#### **Submittals**

- 1. Test reports shall include:
  - a) Compressive strength
  - b) 24-hour cold water absorption.
  - c) 5-hour boil absorption
  - d) Saturation Coefficient
  - e) Initial Rate of Absorption (I.R.A.)
  - f) Weather classification
- 2. Certificate of conformance shall state that brick meets or exceeds applicable ASTM specifications indicated herein.

#### **Sample Panels**

1. Sample panel size shall be 4'x4' showing the proposed color range, texture, bond, mortar, workmanship, cleaning, and water repellents where applicable.

#### Part II

#### **Facing Bricks**

- 1. All brick shown on contract documents shall be *color, texture* as manufactured by **General Shale, PO Box 3547, 3015** Bristol Highway, Johnson City, TN 37602-3547.
- 2. ASTM C-216 latest edition, Grade SW, Type FBS or ASTM C-652 latest edition, Grade SW, Type HBS, Class H40V.
- 3. Dimensions  $3^{1}/_{2}$  "x  $2^{1}/_{4}$  "x  $7^{5}/_{8}$ " (W x H x L)

#### **Structural Bricks**

- 1. All brick shown on contract documents shall be *color, texture* as manufactured by **General Shale, PO Box 3547, 3015** Bristol Highway, Johnson City, TN 37602-3547.
- 2. ASTM C-652 latest edition, Grade SW, Type <u>HBS</u>, Class H40V.
- 3. Dimensions  $5^{5}/_{8}$  "x  $2^{3}/_{4}$  "x  $11^{5}/_{8}$ " (W x H x L)

#### Shapes

1. Where special shapes are shown on architectural drawings, manufacturer shall provide shop drawings for architect's approval prior to manufacturing shapes.

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#### Mortar

Mortar shall be type consisting by proportion:

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- Part Portland cement (ASTM C-150 Type I or II)
- Part hydrated lime (ASTM C-207)
- Parts sand (ASTM C-144)

#### Grout

Grout shall conform to ASTM C-476 for fine grout mix. Slump shall be 10"

- a) Part Portland cement (ASTM C-150, Type I or II)
- b) 1/4 to 3 parts sand (ASTM C-404)

#### Part III

#### EXECUTION

- a) Bond Bond shall be running bond unless otherwise shown on contract documents.
- b) Jointing Mortar joints shall be concave and struck with a smooth steel tool.
- c) Construction All construction strictly adheres to (ACI 530)
- d) <u>Cleaning</u> Cleaning shall conform to Technical Bulletin 4: Section 4200, Brick Cleaning Recommendations and to BIA Technical Note #20-R. Contact manufacturer for recommendations.
- e) <u>Water Repellent & Coatings</u> Where water repellents are specified consult Technical Bulletin 1: Section 1700, Water Repellent Coatings.

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