

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 $3\frac{1}{2}'' \times 2\frac{1}{4}'' \times 7\frac{5}{8}''$ (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 HBS, Class H40V.
3. Dimensions $5\frac{5}{8}'' \times 2\frac{3}{4}'' \times 11\frac{5}{8}''$ (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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Brick Specification - Continued

Mortar

Mortar shall be type consisting by proportion:

- ___ 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) Cleaning - Cleaning shall conform to Technical Bulletin 4: Section 4200, Brick Cleaning Recommendations and to BIA Technical Note #20-R. Contact manufacturer for recommendations.
- e) Water Repellent & Coatings - Where water repellents are specified consult Technical Bulletin 1: Section 1700, Water Repellent Coatings.