

Specification for Residential Brick

Part 1 Quality Assurance

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.
2. Final brick selection shall be made only following architect's or owner's review of sample panel.
3. Brick from manufactured material for project shall be shipped to site and sample panel erected.
4. No brick shall be shipped from manufacturer to site until architect's or owner's acceptance of job panel constructed from actual material for project. This panel shall replace all other sample panels and shall remain on site throughout construction, and become the project standard for bond, mortar, workmanship, and appearance.

Part II Products

Face Brick

1. Manufacturer: **Interstate Brick Company**, 9780 S 5200 W, West Jordan UT 84081-5625 or **H.C. Muddox**, 4875 Bradshaw Road, Sacramento CA 95827-9793
2. ASTM C-216, Grade SW, Type FBA (Type FBA brick include sand or slurry coated, tumbled, and heavily textured brick that is selected for characteristic architectural effects due to non-uniform size and texture. These units and may have a wider permitted variation in dimensional tolerances than Type FBS, and have no specified criteria for chippage, out-of-square, or warpage. The acceptance or rejection should be based on an approved sample panel) or better.
3. Color and texture
4. Dimensions (*width*) x (*height*) x (*length*).
5. Minimum compressive strength 9,000 psi.
6. Maximum Saturation Coefficient 0.78 (if required).
7. Minimum IRA 6 g/ min/30 in².
8. Maximum IRA 30 g/min/30 in². Where IRA exceeds 30 g/min/30 in², pre-wetting brick is recommended.
9. Shapes; where special shapes are shown on architectural drawings, manufacturer shall provide shop drawings for architect's approval prior to manufacturing shapes.

Mortar

Mortar shall conform to ASTM C 270 Type N

Proportion Specification:

1 part Portland cement (ASTM C 150 Types I, IA, II, IIA, III, IIIA or V) less than 6 months old
 1 part hydrated lime (ASTM C-207)
 6 parts sand (ASTM C-144)
 OR

Property Specification:

Portland cement - lime mortar
 Compressive strength 750 psi
 Water retention 75% minimum
 Air content 14% maximum
 Sand: 2 ¼ -3 ½ the sum of the separate volumes of cementitious materials sand (ASTM C-144)

Part III Execution

Bond

Bond shall be running bond unless otherwise shown on contract documents.

Jointing

Mortar joints shall be concave unless otherwise shown on contract documents.

Construction

All construction strictly adheres to International Building Code (IBC) or TMS 402/ACI530/ASCE5.

Cleaning

Cleaning shall conform to Interstate Brick Technical Bulletin 4 Brick Cleaning Recommendations, Section 040120 and BIA Technical Note #20 Cleaning Brickwork. Do not use muriatic acid or sand blasting. Contact manufacturer for recommendations.

Water Repellent & Coatings

Where water repellents are required, consult Interstate Brick Technical Bulletin 1 Water Repellent Coatings and Section 071900.