

THIN BRICK VENEER UNITS

04 21 13

Arto Manufacturing Company
15209 S. Broadway St.
Gardena, CA 90248-1823
Phone: (310) 768-8500
Fax: (310) 768-8544
www.artobrick.com

This 3-part specification utilizes the Construction Specifications Institute (CSI) *Manual of Practice*, including *MasterFormat*, *SectionFormat*, and *PageFormat* and is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes typically precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

This 3-part specification specifies thin brick veneer. These products are manufactured by Arto Manufacturing Company. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat* for other section numbers and titles.

PART 1 GENERAL

1.01 SUMMARY

Specifier Note: Revise paragraphs below to suit project requirements.

A. Section Includes: Handmade concrete brick veneer for decorative use.

B. Related Sections:

Specifier Note: A water repellent is recommended for exterior units; delete below if not specified.

1. Division 07 Section: Water Repellents.

2. Division 07 Section: Flashing.

3. Division 07 Section: Joint Sealers.

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 01 References Section may establish the edition date of standards. This article does not require compliance with standard, but is merely a listing of references used. Article below should list only those industry standards referenced in this section.

1.02 REFERENCES

A. American National Standards Institute (ANSI):

1. ANSI 118.4 Specifications for Latex-Portland Cement Mortar.

B. ASTM International:

1. ASTM C39/C39M Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens.

2. ASTM C67 Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile.

3. ASTM C91 Standard Specification for Masonry Cement.

4. ASTM C157/C157M Standard Test Method for Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete.

5. ASTM C482 Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement.

6. ASTM C847 Standard Specification for Metal Lath.

7. ASTM C897 Standard Specification for Aggregate for Job-Mixed Portland Cement-Based Plasters.
8. ASTM C1028 Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method.
9. ASTM C1353 Standard Test Method Using the Taber Abraser for Abrasion Resistance of Dimension Stone Subjected to Foot Traffic.
10. ASTM D226 Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing.

C. National Association of Architectural Metal Manufacturers (NAAMM):

1. NAAMM Standard ML/SFA 920 Guide Specifications for Metal Lathing and Furring.

1.03 SYSTEM DESCRIPTION

A. Performance Requirements:

1. Absorption (ASTM C67): Not more than 12%.
2. Compressive Strength (ASTM C39): Not less than 4000 psi (27,560 kPa).
3. Freeze/thaw (ASTM C67): Unaffected after 50 cycles.
4. Moisture Content (ASTM C67): 7%.
5. Density (ASTM C642): 140 lb/ft³ (2251 kg/m³).
6. Length Change (ASTM C157): +/-0.1% max.
7. Bond Strength (ASTM C482): 50 psi (0.3 MPa).
8. Abrasion Resistance (ASTM C1353): 20 wear index.
9. Coefficient of Friction (ASTM C1028): 0.6.
10. Breaking Load (ASTM C67): Minimum load = 300 lbs

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Division 01 Submittal Procedures Section.

1.04 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 01 Submittal Procedures Section.
- B. Product Data: Submit product data for specified products.
- C. Shop Drawings: Indicate layout, patterns, color arrangement, perimeter conditions, junctions with dissimilar materials, control and expansion joints, thresholds, accessories and setting details.
- D. Maintenance Data: Include recommended cleaning methods, cleaning materials, stain removal methods and polishes and waxes.

Specifier Note: Article below should include prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 01 Quality Assurance Section.

- E. Samples: Submit selection and verification samples of finishes, colors and textures.

1.05 QUALITY ASSURANCE

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 01 Regulatory Requirements Section. Repetitive statements should be avoided.

A. Qualifications:

1. Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project for a minimum of 5 years.

B. Regulatory Requirements and Approvals: [Specify applicable requirements of regulatory agencies].

1. [Code agency name].

a. [Report or approval number].

Specifier Note: Retain paragraph below for erected assemblies (either onsite or offsite) required for review of construction, coordination of work of several sections, testing or observation of operation. Mock-ups, when accepted or approved, establish standards by which work will be judged. Coordinate below with Division 01 Quality Control (Mock-Up Requirements) Section.

C. Mock-Ups: Install at project site a job mock-up using acceptable products and manufacturer approved installation methods. Obtain Owner's and Architect's acceptance of finish color, texture and pattern and workmanship standard(s). Comply with Division 01 Quality Control (Mock-Up Requirements) Section.

Specifier Note: Edit paragraph below when specifying mock-up size.

1. Mock-Up Size: [Specify mock-up size].

2. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.

3. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval.

Specifier Note: Article below should include special and unique requirements. Coordinate article below with Division 01 Product Requirements Section.

1.06 DELIVERY, STORAGE & HANDLING

A. General: Comply with Division 01 Product Requirements Section.

B. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.

C. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

D. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

1.07 ENVIRONMENTAL REQUIREMENTS

A. Install mortar, set and grout tile when surface temperature is a minimum of 50 degrees F (10 degrees C) and rising but no greater than 90 degrees F (32 degrees C).

B. Do not install mortar, set or grout tile when inclement weather conditions are expected within 48 hours of completion.

Specifier Note: Retain article below if the Owner wants surplus materials.

1.08 EXTRA MATERIALS

- A. Extra materials: Provide _ ft² of each size, color and surface finish of tile specified.

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 THIN BRICK VENEER UNITS

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to 3-part specification. Retain or delete paragraph below per project requirements and specifier's practice.

- A. Manufacturer: Arto Manufacturing Company.

1. Contact: 15209 S. Broadway St., Gardena, CA 90248-1823; Telephone: (310) 768-8500; Fax: (310) 768-8544; website: www.artobrick.com.

Specifier Note: Edit Paragraph below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 01 Project Requirements (Product Substitutions Procedures) Section.

- B. Substitutions: No substitutions permitted.

Specifier Note: Paragraphs below list proprietary concrete thin brick veneer units offered by Arto Brick Veneer Manufacturing Company. Select products appropriate to project. Consult manufacturer regarding product options. Select product characteristics required; delete characteristics not required.

2.02 MANUFACTURED UNITS

- A. Thin Brick Veneer:

Specifier Note: Select series and size below.

1. Series:

- a. [Antik Brick, 2 inches x 8 inches].
- b. [Antik Brick, 4 inches x 8 inches].
- c. [Standard Brick, 2 inches x 8 inches].
- d. [Smooth Brick, 4 inches x 8 inches].
- e. [Granulated Brick, 2 inches x 8 inches].
- f. [Rocky Mountain, 2 inches x 8 inches].
- g. [Bel Air Brick, 2 inches x 8 inches].
- h. [4x9 Brick, 4 inches x 9 inches].
- i. [Villagio, 1 inch x 9 inches].
- j. [Jumbo Brick, 6 inches x 12 inches].
- k. [Pachanga, 2 inches x 4 inches].

Specifier Note: Select color(s) below. If more than one color is selected, create color designators and coordinate with drawings.

2. Color(s):

- a. [Used Red].
- b. [City Hall Red].
- c. [Mission Red].
- d. [Red Flash].
- e. [Burnt Desert].
- f. [Used Desert].
- g. [Blend].
- h. [Blend Light].
- i. [Cotto Dark].
- j. [Cotto Gold].
- k. [Spanish Cotto].
- l. [Gray Myst].
- m. [Antik Gray].
- n. [Artillo].
- o. [Buff].
- p. [Cafe Olay].
- q. [Charcoal].
- r. [Charley Brown].
- s. [Desert].
- t. [Early Gray].
- u. [Flagstone].
- v. [Hacienda].
- w. [Hacienda Flash].
- x. [Josie Blend].
- y. [Natural Gray].
- z. [Normandy Cream].
- aa. [Old California].
- bb. [Rosa White Wash].
- cc. [Sangria].
- dd. [Smoke].
- ee. [Sonora Sunset].

ff. [Tuscan Mustard].

2.03 ACCESSORIES

A. Trim Pieces:

Specifier Note: Select series and size below. Corners are not available for all styles. Refer to catalog or tear sheets for available corners.

1. Series: [Short Side Corner, 2 inches × 2 inches] [Short Side Corner, 2 inches × 8 inches] [Short Side Corner, 4 inches × 8 inches] [Long Side Corner, 4 inches × 8 inches] [Outside Left Corner, 4 inches × 8 inches] [Outside Right Corner, 4 inches × 8 inches].

Specifier Note: If color(s) are not to match, insert required color(s).

2. Color: [Match thin brick veneer.].

B. Moisture Barrier:

1. Bottom Layer: Tyvek StuccoWrap, DuPont Company or similar.
2. Top Layer: ASTM D226, Type II, asphalt saturated organic felt, without perforations, 30 lb (13.6 kg) nominal weight.

C. Metal Lath: ASTM C847, diamond mesh lath, 2.5 lb/yd² (1.36 k/m²) nominal weight, galvanized.

D. Fasteners/Attachment Devices: Galvanized steel; comply with ML/SFA .Guide Specifications for Metal Lathing and Furring.

E. Mortar Materials:

1. Masonry Cement: ASTM C91, Type N.
2. Aggregate: Manufactured or natural sand, ASTM C897.
3. Water: Potable.

2.04 MIXES

A. Mortar Mix: 1 part masonry cement to 2 1/2 - 3 parts aggregate per ASTM C39 and ANSI A118.4 (modified).

PART 3 EXECUTION

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to this 3-part specification. Retain or delete paragraph below per project requirements and specifier's practice.

3.01 MANUFACTURER.S INSTRUCTIONS

A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation.

3.02 EXAMINATION

A. Site Verification of Conditions: Verify that substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

3.03 PREPARATION

A. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.04 CLEANING

A. Clean with water and soft nylon brushes only; do not allow mortar to set up on unit surfaces.

3.05 PROTECTION

A. Protect installed products until completion of project.

B. Repair or replace damaged products prior to Substantial Completion.

END OF SECTION