



Section 04730  
Simulated Stone  
Part 1 General  
1.01 Summary

*Specifier Note: Revise paragraphs below to suit project requirements.*

- A. Section Includes: Lightweight concrete simulated stone units for decorative use.
- B. Related Sections:

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

1. Division 7 Section: Water Repellents.
2. Division 7 Section: Flashing.
3. Division 7 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 1 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. ASTM International:

1. ASTM C39 Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens.
2. ASTM C91 Standard Specification for Masonry Cement.
3. ASTM C177 Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus.
4. ASTM C847 Standard Specification for Metal Lath.
5. ASTM C897 Standard Specification for Aggregate for Job-Mixed Portland Cement-Based Plasters.
6. ASTM D226 Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing.
7. ASTM E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.

### B. National Fire Protection Association (NFPA):

1. NFPA 258 Standard Research Test Method for Determining Smoke Generation of Solid Materials.

### 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 C39): Not more than 12.5%.
2. Compressive Strength (ASTM C39): Not less than 3000 psi (23,426 kPa).
3. Splitting Tensile Strength (ASTM C39): Not less than 305 psi (2101 kPa).
4. R-value (ASTM C177): Not less than 0.75.
5. Fire Performance:
  - a. Flamespread (NFPA 258 or ASTM E662): 0.
  - b. Smoke Density (NFPA 258 or ASTM E662): 0.

*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 1 Submittal Procedures Section.*

### 1.04 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. Product Data: Submit product data, including manufacturer's SPECIFICATION DATA sheet, for specified products.

*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 1 Quality Assurance Section.*

- C. 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 1 Regulatory Requirements Section. Repetitive statements should be avoided.*

- A. Regulatory Requirements and Approvals: [Specify applicable requirements of regulatory agencies].
  1. [Code agency name].
    - a. [Report or approval number].

*Specifier Note: Article below should include special and unique requirements. Coordinate article below with Division 1 Product Requirements Section.*

### 1.06 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirements Section.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

## 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 SIMULATED STONE

*Specifier Note: Paragraph below is an addition to CSI Section Format and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.*

- A. Manufacturer: Dutch Quality Stone, 18012 Dover Road, Mt. Eaton, OH 44659;  
Telephone: (877) 359-7866, (330) 359-7866; Fax: (330) 359-5990;  
E-mail: info@dutchqualitystone.com; website: www.dutchqualitystone.com.

*Specifier Note: Edit Paragraph below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 1 Project Requirements (Product Substitutions Procedures) Section.*

- B. Substitutions: No substitutions permitted.

*Specifier Note: Paragraphs below list proprietary simulated stone products offered by Dutch Quality Stone. Select products appropriate to project. Consult manufacturer regarding product options. Select product characteristics required; delete characteristics not required. Refer to manufacturer's SPEC-DATA product sheet.*

### 2.02 MANUFACTURED UNITS

- A. Weather Ledge: [Cypress] [Grey] [Natural Blend] [Prestige] [Pennsylvania] [Sagewood] [Sienna] [Tan] [Torino] [Ashen].
- B. Ledgerstone: [Pennsylvania] [Prestige] [Natural Blend] [Cypress] [Sagewood] [Sienna].
- C. Stack Ledge: [Sienna] [Sagewood] [Torino] [Tan] [Autumn Blend].
- D. Limestone: [Cypress][Great Lakes] [Ohio Tan] [Columbus Blend] [Ohio White Vein] [Charcoal] [Autumn Blend] [Pennsylvania] [Kentucky Blend].
- E. Cobbled Limestone: [Cypress] [Sienna].
- F. Fieldstone: [Grey] [Kentucky] [Tan] [Top Rock] [Pennsylvania] [Cypress] [Sagewood] [Sienna] [Torino] [Ashen].
- G. River Rock: [Buckeye] [Kentucky] [Michigan].
- H. Dry Stack: [Cypress] [Pennsylvania] [Prestige] [Sienna] [Ashen].
- I. Castle Stone: [Cypress] [Sienna] [Torino] [Sagewood].

Specifier Note: Product below is available in one color only

- J. Bric-Stone: [Antique]
- K. Michigan Split Granite

## 2.03 ACCESSORIES

### A. Trim Pieces:

- [Hearthstone, 19 inches x 20 inches]
- [Jack Arch Wings]
- [Bullnose Window Base]
- [90° Jumper Corner]
- [Foundation Coping, 4 inches × 35 1/2 inches (102 × 902 mm)]
- [135 Corners]
- [Watertable Sill]
- [Chiseled Edge Keystone, 9 inches × 6 inches × 8 inches (229 × 152 × 203 mm)]
- [Chiseled Edge Keystone, 12 inches × 7 inches × 11 inches (305 × 178 × 279 mm)]
- [Curved Sill]
- [Brick Keystone, 10 inches × 7 inches × 10 inches (254 × 178 × 254 mm)]
- [Brick Keystone, 12 inches × 8 inches × 12 inches (305 × 203 × 305 mm)]
- [Rowlocks, 4 inches × 5 inches (102 × 127 mm)]
- [Rowlocks, 5 inches × 7 inches (127 × 178 mm)]
- [Concave Window Trim] [Flat Window Trim] [Trim Stone]
- [Concave Window Trim Corners]
- [Quoin Corner, 8 inches × 8 inches × 12 inches (203 × 203 × 305 mm)]
- [Quoin Flats, 8 inches × 11 1/2 inches (203 × 292 mm)]
- [Quoin Flats, 8 inches × 23 1/2 inches (203 × 597 mm)]
- [Water Hydrant Block]
- [Receptacle Block]
- [Light Block]
- [Jumper Flats]
- [Pier Cap, 22 inches × 22 inches (559 × 559 mm)]
- [Pier Cap, 30 inches × 30 inches (762 × 762 mm)]
- [Wall Cap, 12 inches × 23 1/2 inches (305 × 597 mm)]
- [Wall Cap, 14 inches × 23 1/2 inches (356 × 597 mm)]
- [Wall Cap, 16 inches × 23 1/2 inches (406 × 597 mm)]
- [Brick Window Sill]
- [Full Brick Window Trim]
- [Half Brick Window Trim]

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

1. Color: [Match field stone].

### B. Moisture Barrier:

1. Bottom Layer: Must meet the requirements of ICC-ES AC 38.
2. Top Layer: Must meet requirements of ASTM D226 for #15 or #30 asphalt saturated felt.

### C. Metal Lath: All lath and lath attachments must be made of corrosion resistant material.

Self-furred 2.5 lb. metal lath meeting ASTM C 847. 3.4 lb., 0.375" rib lath meeting ASTM C 847, for open stud applications (no sheathing). Self-furred 17 or 18 gauge woven wire mesh meeting ASTM C 1032. Use of flat woven wire mesh meeting ASTM C 1032 is also acceptable but must be attached using self-furring fasteners.

### D. Fasteners/Attachment Devices: Corrosion Resistant Fasteners (ASTM C1063) that penetrate the stud (min. of 1"). Corrosion resistant, self-tapping screws with a 7/16" head that provides 3/8" minimum penetration beyond the inside metal surface.

### E. Mortar Materials:

1. Masonry Cement: ASTM C270, Type N or S.
2. Aggregate: Manufactured or natural sand, ASTM C897.
3. Water: Potable.

## 2.04 MIXES

- A. Mortar Mix: 1 part Type N or S masonry cement. Should be used to 2.25 parts sand.

## PART 3 EXECUTION

*Specifier Note: Paragraph below is an addition to CSI Section Format and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.*

### 3.01 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturers installation procedures and techniques.

### 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.

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