



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

This MANU-SPEC® utilizes the Construction Specifications Institute (CSI) *Manual of Practice*, including *MasterFormat*™, *SectionFormat*™ and *PageFormat*™. A MANU-SPEC 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 MANU-SPEC specifies simulated stone. These products are manufactured by Dutch Quality Stone. 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.

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 SPEC-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 *SectionFormat* 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: [Grey] [Natural Blend] [Prestige] [Pennsylvania] [Missouri] [Tan].
B. Ledgestone: [Pennsylvania] [Prestige] [Missouri] [Natural Blend] [Desert Sand].
C. Stackstone: [Prestige] [Saddlebrook] [Brown].
D. Limestone: [Great Lakes] [Ohio] [Columbus Blend] [Ohio White Vein] [Grey] [Charcoal] [Autumn] [Kentucky] [Hudson] [Missouri].
E. Cobbled Limestone: [Desert Sand] [Ohio].
F. Fieldstone/Toprock: [Grey] [Kentucky] [Tan] [Top Rock] [Pennsylvania].
G. River Rock: [Buckeye] [Kentucky] [Michigan].

Specifier Note: Product below is available in one color only.

- H. Michigan Split Granite.
I. Brick-Stone: [Pennsylvania] [Antique].
J. Hearthstone: [Granite] [Brown] [Grey] [Tan] [Ivory] [Taupe].

2.03 ACCESSORIES

- A. Trim Pieces: [Jack Arch Set] [Bullnose Window Base] [Jumper Corner] [Foundation Coping, 4 inches × 35 1/2 inches (102 × 902 mm)] [Foundation Coping, 8 inches × 35 1/2 inches (203 × 902 mm)] [Stick Out, 4 inches × 8 inches (102 × 203 mm)] [Stick Out, 4 inches × 12 inches (102 × 305 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, 9 inches × 6 inches × 8 inches (229 × 152 × 203 mm)] [Brick Keystone, 12 inches × 7 inches × 11 inches (305 × 178 × 279 mm)] [Rowlocks, 4 inches × 5 inches (102 × 127 mm)] [Rowlocks, 5 inches × 7 inches (127 × 178 mm)] [Concave Window Trim] [Flat Window Trim] [Quoin Corner, 8 inches × 8 inches × 12 inches (203 × 203 × 305 mm)] [Water Hydrant Block] [Receptacle Block] [Light Block] [Concave Window Trim Corners] [Quoin Flats, 8 inches × 11 1/2 inches (203 × 292 mm)] [Quoin Flats, 8 inches × 23 1/2 inches (203 × 597 mm)] [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 1/3 inches (305 × 593 mm)] [Wall Cap, 14 inches × 23 1/3 inches (356 × 593 mm)] [Wall Cap, 16 inches × 23 1/3 inches (406 × 593 mm)].

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

1. Color: [Match field stone.].

-
- B. Moisture Barrier:
 - 1. Bottom Layer: Tyvek StuccoWrap, DuPont Company.
 - 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.

PART 3 EXECUTION

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* 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 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