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Dutch Quality Stone



1. Product Name

Dutch Quality Stone

2. Manufacturer

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3. Product Description

BASIC USE

Dutch Quality Stone is a lightweight concrete facade, designed for cosmetic use on interior and exterior walls. The product is intended for nonstructural use, and because of its light weight, requires no additional footings. Veneer or manufactured stone can be applied to almost any load-bearing wall, wood frame, steel or masonry.

COMPOSITION & MATERIALS

Dutch Quality Stone is produced from a combination of Portland cement, lightweight aggregates and permanent mineral oxides. It is formed in latex molds produced from natural stone.

TYPES

- Stone veneer - 35 types
- Brick veneer - 2 types
- Hearthstones - 6 types
- Window treatments - 12 types
- Utility pieces - 9 types
- Keystones - 15 types
- Corner treatments - 6 types
- Wall/pier caps - 15 types

SIZES & SHAPES

Dutch Quality Stone will vary greatly in size and shape. See manufacturer's current literature for detailed sizing information on each stone product. Stone thickness will vary from 1" - 2" (25.4 - 51 mm).



Tan Weather Ledge

STYLES & TEXTURES

- Weather Ledge
- Ledgestone
- Stackstone
- Limestone
- Cobbled Limestone
- Fieldstone
- Top Rock
- River Rock
- Michigan Split Granite
- Bric-Stone

COLORS

Many color options are available for the different styles of stone. See manufacturer's brochure for current color selections.

LIMITATIONS

Dutch Quality Stone should not be used in areas that may come in contact with harsh chemicals and/or de-icing materials. Hearthstones are not intended for, and will not hold up to, foot traffic. Do not sandblast, pressure wash, or use wire brushes or acidic compounds to clean the stone.

4. Technical Data

APPLICABLE STANDARDS

ASTM International (ASTM) - ASTM C39 Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens

PHYSICAL/CHEMICAL PROPERTIES

- Absorption - 12.5%
- Compression strength (ASTM C39) - 3400 psi

(23,442 kPa)

- Thickness - 1" - 2" (25.4 - 51 mm)
- Splitting tensile strength - 305 psi (2103 kPa)
- Fire rating - Zero flamespread, zero fuel contributed, zero smoke developed
- Installed weight - 9 - 12 psf (43.9 - 58.6 k/m²) (approximate)
- R-value - 0.75 - 1 ft² x h x °F/Btu (0.132 - 0.176 m² x K/W)

5. Installation

PREPARATORY WORK

Perform proper surface preparation according to the recommendations of the manufacturer. Consult Dutch Quality Stone for complete recommendations.

Mortar Mix

Use 1 part Type N masonry cement to 2.5 - 3 parts sand. Mortar should be mixed to a moist consistency. Mortar that is too dry may not bond properly, and mortar mixed too wet will lose strength. All stone setting materials should be clean of salts or chemicals that may cause efflorescence.

METHODS

Methods of installation will vary depending on the stone style, the surface to which it is applied, weather conditions and local building codes. For specific methods, contact the manufacturer or a local distributor.

Securing the Metal Lath

Apply moisture barrier of Tyvek StuccoWrap® and 30 lb (13.6 kg) felt, or equivalent. Starting

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Dutch Quality Stone



Charcoal Limestone

from the bottom, overlap horizontal joints by 4" (102 mm) and vertical joints by 8" (203 mm). Wrap all corners 16" (406 mm). Apply 2.5 lb (11.4 kg) mesh, overlapping in the same manner as the felt paper. Lath should lay flat against supporting surface with no loose spots. Fasten with galvanized nails or staples at least 1" (25.4 mm) into the studs, at 6" (152 mm) intervals.

Mortar Application

When applying bed coat or scratch coat over metal lath, spread evenly over the lath approximately 3/8" - 5/8" (9.5 - 15.9 mm) thick, keeping surface fairly flat.

Applying the Stone

Lay out 1 - 3 boxes of stone in the work area for easy stone selection. Apply corner stone first and work down and across the wall surface. Some stones may require working from the bottom up. Spread 1/2" (12.7 mm) of mortar evenly across the entire back of the stone. To set stone to stone, apply even pressure on the entire stone using a circular motion.

Mortar consistency may need to be adjusted depending on weather conditions. It may be necessary to dampen the back of stones or the scratch coat in extremely hot or dry weather in order to achieve proper bonding.

Grouting the Stone

Using a grout bag, fill between the stone from the wall out to the stone surface. Do not overfill the joints and mess the stone surface. To

enhance appearance, match grout color to the stone.

Striking the Joints

When mortar becomes firm to the touch, strike the joints with a striking tool. Be sure to press grout firmly, filling any voids. When done, lightly sweep excess mortar dust from stone.

CLEANUP

To remove mortar and light scuffing, clean immediately with water and a soft nylon

brush. Mortar is difficult to remove once bonded to the face of the stone; therefore, it is important to clean the day of installation.

PRECAUTIONS

Dutch Quality Stone recommends using a water repellent in exterior applications with above average moisture exposure to help seal mortar joints and to limit the amount of vapor penetration. Sealer should be breathable in composition and tested in an inconspicuous location for any color change.

On exterior applications, the improper use or absence of flashing and the improper termination of stone can create a higher risk of damage by water infiltration.

Dutch Quality Stone should not be used in conjunction with any interior vapor barrier rated less permeable than 1.

Stone should be installed no closer than 4" (102 mm) to the final grade. This will provide proper drainage, keep the freeze from pressuring the stone and help keep the stone clean.

BUILDING CODES

Current data on building code requirements and product compliance may be obtained from Dutch Quality Stone technical support specialists. Installation must comply with requirements of all applicable local, state and national code jurisdictions.



Tan Fieldstone

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6. Availability & Cost

AVAILABILITY

Dutch Quality Stone is available for purchase through an established dealer network. Contact manufacturer for information on local distributors.

COST

Budget installed cost information may be obtained from a local distributor, as cost varies greatly by region.

7. Warranty

Dutch Quality Stone, Inc., warrants, subject to the terms and conditions of the full written warranty, that its manufactured concrete products shall be free from defects in materials, manufacturing and workmanship for a period of 50 years from the date of purchase. The manufacturer will not be liable for any cracked or damaged product due to mishandling, building settlement, improper installation, discoloration due to airborne contaminants or acts of God beyond the control of the manufacturer. This warranty is limited to the original purchaser and may not be transferred. Complete manufacturer's warranty is available upon request.

8. Maintenance

Most applications require little to no maintenance. Complete maintenance information and recommendations are available from the manufacturer. Consult Dutch Quality Stone for details.

9. Technical Services

A staff of factory trained service personnel offers design assistance and technical support. For technical assistance, contact Dutch Quality Stone.

10. Filing Systems

- First Source™
- MANU-SPEC®
- Sweet's Catalog Files
- Additional product information is available from the manufacturer upon request.