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## BUILDING STONE INSTALLATION INSTRUCTIONS

### PART 1 – GENERAL

#### **Work Included:**

All labor and material for the furnishing and laying of exterior stone building veneer.

#### **Related work:**

Contractor shall include building into the masonry, equipment and materials furnished through other divisions such as lintels, steel framing, shelf angles, anchors, sleeves, thimbles, piping, flashings, and other miscellaneous items, and shall also be required to do the cutting and patching of masonry where necessary to accommodate work of other trades, all as hereinafter specified, shown on plans, or reasonably implied in either, providing a complete job. Caulking and sealants by others.

#### **System Description:**

Non-structural building wall veneer comprised of naturally occurring quarried stone set in cement mortar. Veneer shall depend on structural support from other structural elements of the building via ties, shelf angles, etc. as shown on plans.

#### **Shop Drawings:**

Provide shop drawings of cut stone components for approval prior to fabrication.

#### **Samples:**

Provide samples of adequate size and quantity to represent the full range of color, texture, and other naturally occurring characteristics for approval.

#### **Delivery, Storage, and Handling:**

1. Stone shall be delivered on pallets.
2. General contractor shall provide a dry, stable roadway for removing pallets.
3. Pallets shall be placed on level ground and shall not be stacked.
4. Contractor shall provide tarpaulin covering during inclement weather.

#### **Site Conditions:**

Before commencing with work tarpaulins shall be provided to protect newly laid masonry from damage by inclement weather. This protection shall be placed and removed as required. Ambient temperature shall be 40 degrees F or above while masonry is being erected. When ambient temperature falls below 50 degrees F, the mortar mixing water shall be heated.

## PART 2 – PRODUCTS

### Acceptable Manufacturers:

Buechel Stone Corp  
W3639 Hwy H  
Chilton, WI 53014-9643  
PH# 800.236.4473  
FAX# 920.849.8229

Buechel Stone Corp.  
N4399 Hwy 175 South  
Fond du Lac, WI 54937-9266  
PH# 920.922.4790  
FAX# 920.922.5298

### Materials:

1. a. Veneer stone shall be (insert stone type, i.e. Chilton Country Squire, Fond du Lac Heritage Blend, etc.).  
b. Flexural strength (PSU) 1360 (wet) and 1980 (dry) per ASTM C880-87 test.
2. a. Mortar mix: ASTM C270-73 Type S  
b. Sand: ASTM C144-70  
c. Hydrated lime: ASTM C207-49  
d. Portland cement: ASTM C150 73a  
e. Masonry cement: ASTM C91-71 Type II
3. Anchors and ties shall be zinc-coated metal (ASTM A153) or stainless steel.

## PART 3 – EXECUTION

### Inspection:

Before work progresses, verify that backing structure is plumb and that all bearing surfaces are level.

### Preparation:

Ties, anchors, lintels, etc., must be cleaned of loose rust, ice, or other foreign matter before incorporation into the wall.

### Installation:

1. General:
  - a. Stone wall shall be erected plumb and true to lines.
  - b. Lay with completely filled mortar joints.
  - c. Do not furrow bed joints.
2. Pattern Bond:
  - a. Lay stone in random order taking care to avoid vertical joints by overlapping each joint a minimum of a 4 inches with the stone above.
  - b. Uniformly distribute color range of stone over total area of work.
4. Joining work:
  - a. Where fresh masonry joins partially set masonry:
    1. Remove loose stone and mortar.
    2. Clean surface of set masonry.
  - b. Tothing is not permitted.

5. Joints:

- a. Lay stone with ½” mortar joint.
- b. Tool joints when thumb-print hard.
- c. Trowel-strike or concave-tool exterior joints below grade.
- e. Re-tempering mortar is not permitted.

6. Flashing:

- a. Clean surface of masonry smooth and remove any projections which could damage flashings.
- b. Cover flashings with mortar.
- c. Provide additional ties at opening 36” o.c. within 12” of opening.

7. Weep Holes:

- a. Provide Buechel Stone weep system EMC-3639 along with WOW weeps.
- b. Protect weep system and area above flashing from mortar droppings.

8. Sealant Recesses:

Provide open joint ¾” deep, and ¼” to ⅜” wide, where masonry meets doors, windows, and other exterior openings.

9. Expansion Joints:

- a. Provide joints as shown on plans.
- b. Keep joints clean and free of debris.

**Cleaning:**

1. Cut out and repoint any defective joints.
2. Do not use cleaning agents on stonework. Clean stone masonry with stiff nylon brush and clean water only. If chemicals are needed, go to [www.buechelstone.com](http://www.buechelstone.com). Follow manufactures’ instructions for application.
3. Contractor shall clean site of stone chips, mortar droppings, etc.

**Protection:**

If stone shall be sealed use PROSOCO Natural Stone Treatment or equal per stone supplier’s recommendations.