

**MANUFACTURER'S SPECIFICATIONS**  
**Section 04120 – MASONRY CLADDING**

**PART 1 – GENERAL**

1.1 Summary

- A. This Section includes mortar (and grout) for masonry cladding.
- B. Related Sections
  - 1. Section 01400 – Quality Control.
  - 2. [Section 04235 – Preassembled Masonry Panels.]
  - 3. [Section 04320 – Veneer Masonry System: Installation of Mortar [.] [and Grout.]]
  - 4. [Section 04450 – Cut Stone Veneer: Installation of for [marble.] [granite.] [slate.] [limestone.]

1.2 References

- A. American Society for Testing and Materials
  - 1. ASTM C141 – Standard Specification for Hydraulic Lime for Structural Purposes.
  - 2. ASTM C144 – Standard Specification - Aggregate for Masonry Mortar.
- B. European Standard
  - 1. EN 459-1
  - 2. EN 459-2

1.3 Submittals

- A. Section 01330 – Submittal Procedures: Submittal Procedures.
- B. Product Data: Submit data on design mix, indicate Proportion or Property method used, and required environmental conditions.
- C. Samples: Submit [two] [ \_\_\_\_\_ ] ribbons of mortar color, illustrating color and color range.

- D. Submit [premix mortar] [ \_\_\_\_\_ ] manufacturer's installation instructions.
- 1.5 Quality Assurance
- A. Perform Work in accordance with Manufacturer's Instructions.
- 1.6 Qualifications
- A. Manufacturer: All St. Astier NHL shall be obtained from:  
Lime Works.US  
PO Box 151  
Milford Square, PA 18935-0151  
215-536-6706  
215-536-2281 Fax  
www.limeworks.us  
  
or its authorized distributors.
  - B. Installer: Company specializing in performing plaster/stucco work with a minimum of three (3) years experience.
- 1.7 Storage and Handling
- A. Maintain packaged materials clean, dry, and protected against dampness, freezing and foreign matter.
- 1.8 Pre-Installation Meetings
- A. Section 1300 – Administrative Requirements: Pre-Installation Meeting.
  - B. Convene minimum one week prior to commencing work of this SECTION.
- 1.9 Environmental Requirements
- A. Provide environmental conditions at areas where Work of this SECTION is being performed to allow lime mortar to properly cure.
  - B. Take precautionary measures necessary to assure that excessive temperature changes do not occur.

- C. Do not apply lime mortar unless minimum ambient temperature of 45 degrees F and a maximum of 85 degrees F has been and continues to be maintained for a minimum of 48 hours prior to application and until mortar is cured.
- D. Hot Weather Requirements: Protect lime mortar from uneven and excessive evaporation during dry, hot weather. Provide tarping over the outside of all scaffolding.
- E. Cold Weather Requirements: IMIAC – Recommended Practices and Guide Specifications for Cold Weather Masonry Construction.

## **PART 2 – PRODUCTS**

### 2.1 Lime Mortar (NHL)

#### A. Manufacturer

- 1. CESA – Imported and distributed by Lime Works.US
- 2. Substitutions not permitted.

### 2.2 Components

#### A. Mortar Base Materials

- 1. Binder:
  - a. St. Astier Natural Hydraulic Lime NHL 2
  - b. St. Astier Natural Hydraulic Lime NHL 3.5
  - c. Premix Mortar: Ecologic G, Ecomortar G
  - d. Premix Mortar: Ecologic F, Ecomortar F
- 2. Aggregate: Natural or Manufactured Sharp Sand with at least 4 grades forming a substantial part of the sand and no more than 3% of particles smaller than grade #200 (0.075mm).
- 3. Water: Clean and potable.

#### B. [Mortar Color]

- 1. Mortar Color: [Mineral oxide pigment;] [ \_\_\_\_\_ ] [ \_\_\_\_\_ ] color; [ \_\_\_\_\_ ] manufactured by [ \_\_\_\_\_ ].

### 2.3 Mortar / Grout Mixes

- A. 1 part NHL 2 and [1.5] [2] [2.5] [3] parts of sand, proportioned by volume.
- B. 1 part NHL 3.5 and [1.5] [2] [2.5] [3] parts of sand, proportioned by volume.
- C. Premix Mortar: Ecologic G, Ecomortar G
- D. Premix Mortar: Ecologic F, Ecomortar F
- E. Protect mixtures from freezing, frost, contamination, and excessive evaporation.

### 2.4 Mortar / Grout Mixing

- A. Thoroughly mix mortar ingredients in accordance with manufacturer's instructions.
- B. [Add mortar color in accordance with manufacturer's instructions. Provide uniformity of mix and coloration.]
- C. Do not use anti-freeze compounds to lower the freezing point of the mortar.

## **PART 3 – EXECUTION**

### 3.1 Examination

- A. Section 01300 – Administrative Requirements: Coordination and project conditions.
- B. Request inspection of spaces to be grouted.

### 3.2 Preparation

- A. Dampen surfaces to reduce excessive suction.
- B. [Install backer rod to prevent leakage of mortar materials.]

### 3.3 Installation

- A. Install mortar to requirements of the specific masonry [Section.]  
[Sections.]
- B. Remove excess mortar often, initial set 10 to 24 hours.

3.4 Schedules

END OF SECTION