

**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 Building Lime – Part 1: Definitions, Specifications and Conformity Criteria
2. EN 459-2 Building Lime – Part 2: Test Methods
3. EN 459-3 Building Lime – Part 3: Conformity Evaluation

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.

1.4 Quality Assurance

A. Perform Work in accordance with Manufacturer's Instructions

1.5 Qualifications

A. Manufacturer: All St. Astier NHL shall be obtained from:

LimeWorks.us  
3145 State Road  
Telford, PA 18969  
215-536-6706  
215-453-1310 Fax  
[info@limeworks.us](mailto:info@limeworks.us)  
[www.LimeWorks.us](http://www.LimeWorks.us)

Or its authorized distributors.

B. Installer: Company specializing in performing plaster/stucco work with a minimum of three (3) years experience.

1.6 Storage and Handling

A. Maintain packaged materials clean, dry, and protected against dampness, freezing, and foreign matter.

1.7 Pre-Installation Meetings

A. Section 1300 – Administrative Requirements: Pre-Installation Meeting.

B. Convene minimum one week prior to commencing work of this SECTION.

1.8 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 for 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

## **PART 2 – PRODUCTS**

### 2.1 Lime Mortar (NHL)

#### A. Manufacturer

1. CESA – Imported and distributed by LimeWorks.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. St. Astier Natural Hydraulic Lime NHL 5
- d. Premix Mortar:
  - I. Ecologic G, Ecomortar G
  - II. 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 (0.075 mm).
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. 1 part NHL 5 and [1.5] [2] [2.5] [3] parts of sand, proportioned by volume.

D. Premix Mortar: Ecologic G, Ecomortar G

E. Premix Mortar: Ecologic F, Ecomortar F

F. 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 [and grout] in accordance with [premix mortar] [ \_\_\_\_\_ ] manufacturer's instructions.

B. Work grout into masonry cores and cavities to eliminate voids.

C. Do not displace reinforcement while placing grout.

D. Remove grout spaces of excess mortar.

#### 3.4 Schedule

END OF SECTION