

**MANUFACTURER'S SPECIFICATIONS**  
**Section 04900 – MASONRY REPOINTING AND RECONSTRUCTION**

**PART 1 – GENERAL**

1.1 Summary

A. This Section includes mortar (and grout) for masonry.

B. Related Sections

1. Section 01400 – Quality Control.
2. [Section 04235 – Preassembled Masonry Panels.]
3. [Section 04270 – Glass Unit Masonry.]
4. [Section 04300 – Unit Masonry System: Installation of Mortar [.] [and Grout.]]
5. [Section 04310 – Single Wythe Masonry System: Installation of Mortar [.] [and Grout.]]
6. [Section 04320 – Veneer Masonry System: Installation of Mortar [.] [and Grout.]]
7. [Section 04330 – Cavity Wall Masonry System: Installation of Mortar [.] [and Grout]]
8. [Section 04340 – Reinforced Unit Masonry System: Installation of Mortar [.] [and Grout]]
9. [Section 04410 – Rough Stone: Installation of mortar for rough stone.]
10. [Section 04450 – Cut Stone Veneer: Installation of for [marble.] [granite.] [slate.] [limestone.]
11. Section 04500 – Masonry Restoration and Cleaning: Bedding and pointing mortar for masonry restoration work.

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.
3. ASTM C404 – Standard Specification for Aggregates for Masonry Grout.
4. ASTM C476 – Standard Specification for Grout for Masonry.
5. ASTM C1019 – Standard Specification for Method of Sampling and Testing Grout.

## 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 Weather Masonry Construction.

## **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. [Plug cleanout holes with [[brick] [block] masonry units] [ \_\_\_\_\_ ] to prevent leakage of grout materials. Brace masonry for wet grout pressure.]

### 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