

MANUFACTURER'S SPECIFICATIONS
Section 04110 – MASONRY BEDDING AND GROUTING

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 / C141M – Standard Specification for Hydrated 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.

1.5 Quality Assurance

- A. Perform Work in accordance with Manufacturer's Instructions.

1.6 Qualifications

- A. Manufacturer: All St. Astier NHL shall be obtained from:
TransMineral USA, Inc.
201 Purrington Road
Petaluma, CA 94952
707-769-0661
707-769-0352 Fax
transmin@sonic.net
www.limes.us
www.transmineralusa.com

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 TransMineral USA, Inc.
 - 2. Substitutions not permitted.

2.2 Components

- A. Mortar Base Materials

04110-3

St. Astier Natural
Hydraulic Lime Plaster (NHL)
Masonry Bedding and Grouting 06/20/03

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. Ecomortar G
 - II. 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. 1 part NHL 5 and [1.5] [2] [2.5] [3] parts of sand, proportioned by volume.
- D. Premix Mortar: Ecomortar G
- E. Premix Mortar: 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 Schedules

END OF SECTION