

**MANUFACTURER'S SPECIFICATIONS**  
**Section 09225 – ST. ASTIER LIME PLASTER (NHL)**  
**PLASTER ON WOODEN LATH**

ST. ASTIER NATURAL HYDRAULIC LIME PLASTER

**PART 1 – GENERAL**

1.1 Summary

A. This Section includes St. Astier Natural Hydraulic Lime plaster system.

B. Related Sections

1. Section [ \_\_\_\_\_ – \_\_\_\_\_ ]: Wall substrate surface.

1.2 References

A. American Society for Testing and Materials

1. ASTM C25 – Test Methods for Chemical Analysis of Limestone, Quicklime and Hydrated Lime.
2. ASTM C91 – Standard Specification for Masonry Cement.
3. ASTM C109 – Test Method for Compressive Strength of Hydraulic Cement Mortars.
4. ASTM C141 – Standard Specification for Hydraulic Lime for Structural Purposes.
5. ASTM C144 – Standard Specification – Aggregate for Masonry Mortar.
6. ASTM C150 – Standard Specification for Portland Cement.
7. ASTM C206 – Standard Specification for Finishing Hydrated Lime.
8. ASTM C207 – Standard Specification for Hydrated Lime for Masonry Purposes.
9. ASTM C897 – Standard Specification for Aggregate for Job-Mixed Portland Cement-Based Plasters
10. ASTM C926 – Standard Specification for Application of Portland Cement-Based Plaster.
11. ASTM C979 – Standard Specification for Pigments for Integrally Colored Concrete.

B. Portland Cement Association

1. PCA – Portland Cement Plaster (Stucco) Manual.

C. 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 Performance Requirements

- A. Structure to be designed in such a way as to minimize the transfer of stress from building to plaster skin.

### 1.4 Submittals

- A. Section 01330 – Submittal Procedures: Submittal Procedures.
- B. Product Data: Submit data on plaster materials, characteristics and limitations of products specified.
- C. Samples: Submit two samples, 12 inch by 12 inch in size, illustrating finish color and texture.

### 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:

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 minimum of three (3) years experience.

### 1.7 Mock-up

- A. Section 01400 – Quality Requirements: Requirements for mock-up.
- B. Construct mock-up, \_\_\_ feet long by \_\_\_ inch wide, including exterior and interior wall and ceiling system illustrating surface finish and color.
- C. Locate where directed by Architect.
- D. [Incorporate accepted mock-up as part of Work.]

## 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 limeplaster to properly cure.
- B. Take precautionary measures necessary to assure that excessive temperature changes do not occur.
- C. Do not apply limeplaster 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 plaster is cured.
- D. Hot Weather Requirements: Protect limeplaster from uneven and excessive evaporation during dry, hot weather. Provide tarping over the outside of all scaffolding.

## **PART 2 – PRODUCTS**

### 2.1 Lime Plaster (NHL)

- A. Manufacturer
  - 1. CESA – Imported and distributed by LimeWorks.us
  - 2. Substitutions not permitted.

### 2.2 Components

- A. Plaster Base Materials
  - 1. Binder: St. Astier Natural Hydraulic Lime NHL 2
  - 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. [Fibers: \_ inch nominal length glass fibers meeting requirements of ASTM C1116.] [Fibers: animal hair]
- B. Plaster Finish Materials

1. Binder: St. Astier Natural Hydraulic Lime NHL 2.
2. [Pre-Mix: Ecologic F, Ecomortar F]
3. Color Pigment: ASTM C979 mineral oxide type, [\_\_\_\_]color.
4. Water: Clean, fresh, potable and free of mineral or organic matter capable of affecting plaster.

C. Finish Aggregate.

1. 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).

## 2.3 Mixes

A. Scratch Coat: 1 part NHL 2 and [1.5] [2] parts of sand, proportioned by volume.

[1. Fiber Reinforcement: add [fiber] [hair] to scratch coat]

B. Brown Coats: [1 part NHL 2 and [2] [2.5] parts of sand, proportioned by volume.

[1. Fiber Reinforcement: add [fiber] [hair] to scratch coat.]

C. Finish Coat: [1 part NHL 2 and [2.5] [3] parts of sand, proportioned by volume.] [Ready-Mix: Ecologic F, Ecomortar F]

D. Mix only as much plaster as can be used prior to initial set.

E. [Add color pigments to finish coat.]

F. Mix materials dry, to uniform color and consistency, before adding water.

G. Protect mixtures from freezing, frost, contamination, and excessive evaporation.

## **PART 3 – EXECUTION**

### 3.1 Examination

A. Section 01300 – Administrative Requirements: Coordination and project conditions.

B. Surface to be sound enough to receive plaster coat.

C. Mechanical and Electrical: Verify surfaces within walls have been tested and approved.

### 3.2 Preparation

A. Mist surfaces to reduce excessive suction.

B. Prior to the scratch coat being applied, any excessive depression or hollow requiring dubbing out should be carried out using 1 to 1.5 minimum (NHL 2 to sand) mixed with [fiber] [hair].

### 3.3 Installation

#### A. [Installation of Accessories:]

1. [Install accessories in accordance with ASTM C1063.]
2. [Place corner bead at external wall corners.]
3. [Place casing beads at terminations of plaster finish. Butt and align ends. Secure rigidly in place.]
4. [Install door and glazed frames plumb and level in opening. Secure rigidly in place.]

#### B. [Control and Expansion Joints:]

1. [Install interior control and expansion joints.]
2. [Install exterior contraction joints after initial set, scribed as indicated on Drawings by cutting through 2/3 of lime plaster depth, neatly, in straight lines.]
3. [For horizontal exterior surfaces, install control and expansion joints as indicated on Drawings.]
4. [For vertical exterior surfaces, install control and expansion joints as indicated on Drawings.]

#### C. Plastering

1. Apply plaster in accordance with manufacturer's instructions.
2. Apply scratch coat to a nominal thickness of 3/8 inch, and brown coat to nominal thickness of 3/8 inch.
3. Apply finish coat to a nominal thickness of [1/8] [3/16] inch.
4. After curing, dampen previous coat prior to applying finish coat. ALLOW 7 to 10 DAYS BETWEEN COATS.
5. Apply finish coat [to indicated color and texture.] [to [light dash] [medium dash] [heavy dash] [fine sand float] [medium sand float] [heavy sand float] [combed] [glacier] [aggregate surfaced] [ \_\_\_\_\_ ] texture with selected color.
6. Avoid excessive working of the surface. Delay troweling as long as possible to avoid drawing excess

fines to surface.

### 3.4 Erection Tolerances

A. Section 01400 – Quality Requirements: Tolerances.

### 3.5 Adjusting

A. Section 01700 – Execution Requirements: Testing, adjusting, and balancing.

B. Remove damaged or defective plaster by cutting and replace with specified materials to match adjacent plaster.

### 3.6 Schedules

END OF SECTION