

Suggested Specification Guidelines For Metal Lath and Portland Cement Plaster Over Concrete and Masonry



Lathing Materials

Lath: Shall be 3.4# Self-Furring Galvanized Metal Lath; Dietrich Metal Framing, Alabama Metals (AMICO) or equal.

Expansion Joints: Galvanized casing beads placed in a back to back orientation, with subsequent backer rod and low modulus elastomeric sealant.

Control Joints: "J" Type as shown on drawings. Dietrich Metal Framing XJ15, AMICO "Griplock" "J" or equal.

Corner Reinforcing: Stockton Corner-Aid, or equal.

Application

Lathing: All lath and accessories shall be installed in accordance with ASTM C-1063 except as noted.

- Lath Minimum: Attach with six power or powder actuated fasteners with $\frac{3}{4}$ inch washers, located at each corner of lath and at mid-point along long edge of each side. Then stub nail balance at 16 inches horizontally and 7 inches vertically with $\frac{3}{4}$ inch stub nails (ASTM C 1063 section 7.10.5).
- Alternative: Use power or powder actuated fasteners entirely. ITW ramset Trakfast zinc coated or equivalent with $\frac{3}{4}$ inch washers. Shank diameter 0.145 inch min.

Expansion Joints: Because stucco, concrete and masonry undergo similar volume changes in situ, expansion joints may be limited to mirroring those that are in the concrete or masonry. Lath should lap onto the flange of the casing bead

Control Joints: Control joints are not necessary on concrete or masonry however at the discretion of the Architect and to break the wall area into workable/ reasonable size panels they may be employed. Lath may be continuous or cut behind the control joint.

Portland Cement Plaster

1. Apply to a total minimum thickness of $\frac{7}{8}$ inch in at least three coats in accordance with IBC Table 1405.2. Contractor shall provide a sample before proceeding.
 - a. Scratch Coat
 - 1 cu. ft. portland cement
 - 1 cu. ft. masonry cement
 - 5-8 cu. ft. sand
 - 1 lb. of $\frac{1}{2}$ inch chopped glass fibers (recommended, not required)

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| b. Brown Coat | 1 cu. ft. portland cement
1 cu. ft. masonry cement
6-10 cu. ft. sand
1 lb. of ½ inch chopped glass fiber (recommended,
not required) |
| c. Finish Coat | 1 cu. ft. white portland cement
¾ cu. ft. lime
3 cu. ft. silica sand |

Note: All mixing water shall be 1 part Thoro Brand Acryl 60, TK Products Brand TK-225 or equivalent to 3 parts water to reduce volumetric shrinkage cracking.

Alternate Finish:

Acrylic Finish Coatings: A proprietary mixture of 100% acrylic polymer, aggregate, water and pigments by Dryvit, Sto, Senergy, Parex or equivalent.

- Comply with acrylic finish manufacturer's recommendations for conditions affecting product performance.
- Protect installation from direct precipitation during the application and the setting/curing period of primer and finish coat.
- Maintain a wet edge when applying finish. Protect from direct sunlight until finish has dried.
- Ensure that the finish is fully set prior to removing protective covering. Do not use frozen materials.
- Apply acrylic primer and/or finish only when ambient air temperature is 40° F and rising. Ambient air temperature shall remain at 40° F for a minimum of 24 hours or longer if required, until the coatings are completely dry.