

**Suggested Guide Specification:  
Suspended Interior Security Ceiling Using Modified  
Portland Cement-Based Plaster**



**LATHING:**

- Main Runners: 2" Cold Rolled Channels placed on 2' centers and secured to structure through installation methods described in Section 7 of ASTM C 1063.
- Cross Furring: ¾" Cold Rolled Channels positioned transverse to main runners on 12" centers, saddle tied with .0625-in. 16 gauge galvanized wire.
- Metal Lath: Security Lath. Alabama Metal Industries Corp. (AMICO) or equal.
- Casing Beads: 1 1/8" grounds #66 (To be attached to the surface of the lath. Also used for control and expansion joints if needed.)

**PLASTER MIXES (by volume excluding chopped fibers)**

Scratch Coat	1 ft <sup>3</sup> portland cement 1 ft <sup>3</sup> masonry cement 5-8 ft <sup>3</sup> sand 1 lb. of ½" chopped fiberglass strands (recommended not required)
Brown Coat	1 ft <sup>3</sup> portland cement 1 ft <sup>3</sup> masonry cement 6-10 ft <sup>3</sup> sand 1 lb. ½" chopped fiberglass strands (recommended not required)
Finish Coat	1 ft <sup>3</sup> white cement ¾-1½ ft <sup>3</sup> lime 2½-7½ ft <sup>3</sup> silica sand float texture

**NOTES:**

- Mixing water proportions (all coats) – 3 parts water and 1 part liquid acrylic additive (TK Products 225, Acryl 60 or equivalent). Water content of plaster should be as high as can be tolerated for application.
- Scratch coat should be pushed through the metal lath as much as ¾" to obtain the desired overall thickness of the ceiling.
- ½" chopped fiberglass strands added to the mix, helps coalesce the plastic mixture. The glass fiber should be the last thing added to the mix before application.

**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.
- 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.

**REFERENCES** ASTM C 1063, ASTM C 926

