

Standard

techniques, such as mold types, orientation of exposed surfaces during casting, and consolidation procedures.

1.5.3 Identification

Samples shall be supplied for each of the different finishes for a project and all submitted samples shall be clearly identified.

1.5.4 Visual Mockups and Initial Production Approval of Architectural Finishes

Projects which use new shapes, shape combinations, finishes or aggregates shall utilize a mockup consisting of a full-scale portion of a unit for initial production approval. Previously completed projects, mockups or samples may be used for initial production approval of products which are similar. When approved, these samples shall form the basis of judgment for the purpose of accepting the appearance of finishes. These samples shall establish the range of acceptability with respect to color and texture variations, surface defects, and overall appearance. Samples shall be viewed at a distance consistent with their viewing distance on the structure but not less than 20 ft (6 m). Samples shall also serve as testing areas for remedial work. Approved samples shall be kept at the manufacturing facility and shall be used to monitor the acceptability of the production panels.

The samples shall be stored outdoors and positioned to allow comparison with production units. They shall be stored adjacent to each other to allow proper lighting (sun and shade) for daily comparisons of the production units for finish and exposure.

Commentary

C1.5.4 Visual Mockups and Initial Production Approval of Architectural Finishes

The production of uniform, blemish-free samples, which demonstrate the abilities of a single master craftsman, will be completely misleading and could cause endless difficulties when the production personnel, using actual manufacturing facilities, have to match “the sample”. Samples should be made as nearly as possible in the same **manner** intended for **the actual** units.

Small 12 in. (300 mm) square samples do not generally reflect the relationship between materials, finishes, shapes, casting techniques, mold types, thickness of concrete section, orientation of exposed surfaces during production and consolidation procedures. Where mockup units are not used, the manufacturer should request the **architect/engineer and/or** owner to inspect and approve (sign and date) initial production units. Larger production samples will remove uncertainties in the minds of the **architect/engineer** and owner alike.

At least **three** range samples of a size sufficient to demonstrate actual planned production conditions may be used to establish a range of acceptability with respect to color and **texture** variations, **uniformity** of returns, frequency, size **and** uniformity of air voids distribution, surface blemishes and overall appearance. When specified, the acceptability of repair techniques for chips, **spalls** or other surface blemishes should **also** be established on **these** samples.

See Appendix C, Finish Samples for additional information.