

PART III – CSU FACILITIES PLANNING, DESIGN AND CONSTRUCTION STANDARDS

DIVISION 03 – CONCRETE

Housing and Dining Facilities (HDS) has adopted amendments for all HDS facilities. Confirm applicable standards with Project Representative on a per Project basis.

DIVISION 03 – CONCRETE

03 00 00 – GENERAL INFORMATION

- A. Testing of concrete shall be budgeted, arranged and performed for each Project as required by code and specified for Contractor Quality Control and Owner Quality Assurance.
- B. Refer to Division 32 – Exterior Improvements for requirements for paving, ramps, walks, and pads.
- C. Comply with the following applicable provisions unless Specifications indicate otherwise:
 - 1. American Concrete Institute (ACI) 301 "Specifications for Structural Concrete Buildings"
 - 2. ACI 318 "Building Code Requirements for Reinforced Concrete"
 - 3. Sampling – ASTM C 172
 - 4. Slump – ASTM C 143
 - 5. Air Content – ASTM C 173
 - 6. Compressive Strength – ASTM C 39
 - 7. Portland Cement – ASTM C 150
 - 8. Aggregates – ASTM C 33
 - 9. Water – Drinkable
 - 10. Air Entraining Admixture – ASTM C 260
 - 11. Water-Reducing Admixture – ASTM C 494
 - 12. Cold Weather – ACI 306
 - 13. Hot Weather – ACI 305
 - 14. Liquid Type Membrane-Forming – ASTM C 309
 - 15. Type I, Class A

03 35 00 – CONCRETE FINISHING

- A. Concrete Finishes:
 - 1. Slab Trowel Finish:
 - a. Apply trowel finish to monolithic slab surfaces that are exposed-to-view or are to be covered with resilient flooring, paint or other thin-film coating.
 - b. Consolidate concrete surfaces by finish troweling, free of trowel marks, flat, with uniform texture and appearance.
 - c. Machine finishing is acceptable on Colorado State University (CSU) Projects.

PART III – CSU FACILITIES PLANNING, DESIGN AND CONSTRUCTION STANDARDS

DIVISION 03 – CONCRETE

- d. Specifications must include tolerances for flatness.
- 2. Exterior Finish:
 - a. Apply light broom finish to exterior slabs unless noted otherwise.
 - b. Exposed aggregate finish may be used as special design feature when approved by Facilities Management (FM) Planning, Design, Construction and Engineering through the Project Representative.
- 3. All exterior flat work shall be treated with a clear curing and sealing compound.
- 4. Interior slabs that will not receive a finish such as luxury vinyl tile (LVT) or carpet shall be water-cured with absorptive mats.
- 5. Interior slabs that will not receive a floor finish shall be sealed after the concrete is fully cured.
 - a. Sealer shall be a polyurethane product that is available from FM Building Services.
- 6. Concrete stairs that do not have a stringer shall be tooled along the side of each tread to form a groove that channels cleaning water down the riser face and not over the side.

03 38 00 – POST-TENSIONED CONCRETE

- A. As a rule, post-tensioned concrete is not desired for University buildings and must be specifically approved by the Associate Vice President through the Project Representative.

END OF DIVISION