

**CSU HOUSING & DINING SERVICES TECHNICAL STANDARDS**  
**DIVISION 03 – CONCRETE**  

---

**DIVISION 03 CONCRETE**

**03 00 00 - CONCRETE**

A. Standards and Testing:

1. 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.
2. Refer to Division 32 – Exterior Improvements for specifications on paving, ramps, walks, and pads.
3. Comply with the following applicable provisions unless specifications indicate otherwise:

ACI 301 "Specifications for Structural Concrete Buildings"  
ACI 318 "Building Code Requirements for Reinforced Concrete"

Sampling	ASTM C 172
Slump	ASTM C 143
Air Content	ASTM C 173
Compressive Strength	ASTM C 39

Materials:	
Portland cement	ASTM C 150
Aggregates	ASTM C 33
Water	Drinkable
Air Entraining Admixture	ASTM C 260
Water-Reducing Admixture	ASTM C 494

Weather Protection:	
Cold Weather	ACI 306
Hot Weather	ACI 305

Curing Compound	
Liquid Type Membrane-Forming Type I, Class A	ASTM C 309

**03 20 00 - CONCRETE REINFORCING**

- A. As a rule, post-tensioned concrete is not desired for University buildings and must be specifically approved by the Director of Facilities Management through the University Project Manager/Representative.

**03 30 00 - CAST-IN-PLACE CONCRETE**

A. Concrete Finishes:

1. Slab Trowel Finish - 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. Consolidate concrete surfaces by finish troweling, free of trowel marks, flat, with uniform texture and appearance. Machine finishing is acceptable on CSU projects. Specifications must include tolerances for flatness.

**CSU HOUSING & DINING SERVICES TECHNICAL STANDARDS**  
**DIVISION 03 – CONCRETE**

---

2. Exterior Finish - Apply light broom finish to exterior slabs unless noted otherwise. Exposed aggregate finish may be used as special design feature when approved by Facilities Management-Design and Construction through the University 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 VCT 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. Sealer shall be a polyurethane product.
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.