

IBC 2024-30:

*Revise Table 1705.3 “Required Special Inspections and Tests of Concrete Construction” to read as follows:

TABLE 1705.3

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

	TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD^a	IBC REFERENCE
1.	Inspect reinforcement, including prestressing tendons, and verify placement.	—	X	ACI 318 : Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	—
2.	Reinforcing bar welding:				
	a. Verify weldability of reinforcing bars other than ASTM A706.	—	X	AWS D1.4 ACI 318 : 26.13.1.4	—
	b. Inspect welding of reinforcement for special moment frames, boundary elements of special structural walls and coupling beams.	X	—	AWS D1.4 ACI 318 : 26.13.3	

	c. Inspect welded reinforcement splices.	X	—	—	
	d. Inspect welding of primary tension reinforcement in corbels.	X	—	—	
	e. Inspect single-pass fillet welds, maximum $5/16$ ".	—	X	AWS D1.4 ACI 318: 26.13.3	
	f. Inspect all other welds.	—	X	AWS D1.4 ACI 318: 26.13.3	
3.	Inspect anchors cast in concrete.	—	X	ACI 318: 26.13.3.3	—
4.	Inspect anchors post-installed in hardened concrete members. ^b				—
	a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X	—	ACI 318: 26.13.3.2	
	b. Mechanical anchors and	—	X		

	adhesive anchors not defined in 4.a.			ACI 318 : 26.13.3	
5.	Verify use of required design mix.	—	X	ACI 318 : Ch. 19, 26.4.3, 26.4.4	1904.1 , 1904.2
6a.	Prior to concrete placement, fabricate specimens for strength tests, perform slump <u>or slump flow, and</u> air content tests, <u>density</u> and determine the temperature of the concrete <u>with all results included in the test reports.</u>	X	—	ASTM C31 ASTM C172 ACI 318 : 26.5, 26.12	—
6b.	<u>Verify that concrete specimens for strength tests are maintained in the required initial curing and laboratory curing environment and that the maximum and minimum temperatures during the initial curing period are reported.</u>	X	=	ACI 318 26.12 ASTM C31	=
7.	Inspect concrete and shotcrete placement for	X	—	ACI 318 : 26.5	—

	proper application techniques.				
8.	Verify maintenance of specified curing temperature and techniques.	—	X	ACI 318: 26.5.3-26.5.5	—
9.	Inspect prestressed concrete for:				
	a. Application of prestressing forces.	X	—	ACI 318: 26.10	—
	b. Grouting of bonded prestressing tendons.	X	—		
10.	Inspect erection of precast concrete members.	—	X	ACI 318: 26.9	—
11.	For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category C, D, E or F, inspect such connections and reinforcement in the field for:			ACI 318: 26.13.1.3 ACI 550.5	—

	a. Installation of the embedded parts.	X	—		
	b. Completion of the continuity of reinforcement across joints.	X	—		
	c. Completion of connections in the field.	X	—		
12.	Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5 .	—	X	ACI 318: 26.13.1.3	—
13.	Verify in-situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs.	—	X	ACI 318: 26.11.2	—
14.	Inspect formwork for shape, location and dimensions of the concrete member being formed.	—	X	ACI 318: 26.11.1.2(b)	—

For SI: 1 inch = 25.4 mm.

- a. Where applicable, see [Section 1705.13](#).
- b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 26.13 in [ACI 318](#), or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.