









<b>STEEL ROOF AND FLOOR DECKS (IBC 1705.2.2 and SDI QA/QC - 2017):</b>			
Prior to metal deck attachment	<input type="checkbox"/> Observe	<input checked="" type="checkbox"/> Perform	Verify and document compliance of materials (deck and all deck accessories) with approved construction documents, including profiles, material properties, and base metal thickness.
After metal deck placement	<input type="checkbox"/> Observe	<input checked="" type="checkbox"/> Perform	Verify and document compliance of deck, and deck accessories, installation with the approved construction documents. Verify that mill certificates comply with approved construction documents.
Prior to welding	<input checked="" type="checkbox"/> Observe	<input type="checkbox"/> Perform	Verify that welding procedures and certifications of consumables are available, material is properly identified, and welding equipment is appropriate.
During welding	<input checked="" type="checkbox"/> Observe	<input type="checkbox"/> Perform	Verify that welders are qualified, proper handling of consumables is provided, that environmental conditions are acceptable and WPS is followed.
After welding	<input type="checkbox"/> Observe	<input checked="" type="checkbox"/> Perform	Verify size, location and appearance of welds. Verify that repair activities are acceptable.
Prior to mechanical fastening	<input checked="" type="checkbox"/> Observe	<input type="checkbox"/> Perform	Verify that manufacturer's installation instructions and tools are available. Verify proper storage of fasteners.
During mechanical fastening	<input checked="" type="checkbox"/> Observe	<input type="checkbox"/> Perform	Verify that fasteners are positioned appropriately and installed per manufacturer's instructions.
After mechanical fastening	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify spacing and type of all fasteners. Verify that repair activities are acceptable.
<b>OPEN-WEB STEEL JOISTS AND JOIST GIRDERS (IBC TABLE 1705.2.3):</b>			
End connections – welded or bolted	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Visual inspection to confirm that end connections conform to the approved construction documents.
Bridging – horizontal or diagonal	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Visual inspection to confirm that bridging is provided per the approved construction documents.
<b>COLD-FORMED STEEL CONSTRUCTION (IBC 1705.2.4, 1705.11.2, 1705.12.3, and 1705.12.9):</b>			
Trusses spanning > 60-feet	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that temporary and permanent truss bracing is installed in accordance with approved truss package. <b>Performed by code inspection firm.</b>
Wind-force-resisting systems or seismic-force-resisting systems	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Periodic inspections of welding operations. If fastener spacing is < 4"o.c.: Verify that proper screw attachment, bolting, anchoring and other fastening of shear walls, diaphragms, drag struts, braces, shear panels and holdowns has occurred. <b>Performed by code inspection firm.</b>
Cold-formed steel special bolted moment frame	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Visual inspections during installation cold-formed bolted moment frames located in Seismic Design Category 'D-F'.

### CONCRETE CONSTRUCTION (IBC 1705.3 & 1705.12.1)

<i>Item</i>	<i>Detailed Instructions and Frequencies</i>		
Reinforcing steel, including prestressing tendons	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all



			mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
Welding of reinforcing steel	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Visually inspect all welds and also verify weldability of reinforcing steel based upon carbon equivalent and in accordance with AWS D1.4. Continuously inspect any welds over 5/16" thick.
Cast-in bolts & embeds	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used.
Post-installed anchors or dowels	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report. Horizontally or upwardly inclined anchors that resist sustained tension loads require continuous inspection and approved installers.
Use of required mix design	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 19, 26.4.3, 26.4.4; and IBC 1904.1, 1904.2.
Concrete sampling for strength tests, slump, air content, and temperature	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Concrete & shotcrete placement	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Curing temperature and techniques	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that the ambient temperature for concrete is kept at > 50°F for at least 7 days after placement. High-early-strength concrete shall be kept at > 50°F for at least 3 days. Accelerated curing methods may be used (see ACI 318: 26.5.3-26.5.5). The ambient temperature for shotcrete shall be > 40°F for the same period of time as noted for concrete. Shotcrete shall be kept continuously moist for at least 24 hours after shotcreting. All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded.
Pre-stressed concrete	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	ACI 318 26.10
Erection of precast concrete	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that all precast elements are lifted, assembled and braced in accordance with the approved construction documents.
Precast concrete diaphragm connections or reinforcement classified as moderate or high deformability elements in seismic design category C-F.	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Inspect connections and reinforcement in the field for: <ul style="list-style-type: none"> <li>a. Installation of the embedded parts</li> <li>b. Completion of the continuity of reinforcement across joints.</li> <li>c. Completion of connections in the field.</li> </ul>
Installation tolerances of precast concrete diaphragm connections	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	
Strength verification	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons.
Formwork	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents.



## MASONRY CONSTRUCTION (IBC 1705.4)

*Item*

*Detailed Instructions and Frequencies*

<b>PRIOR TO CONSTRUCTION (Table 3, TMS-602-16):</b>			
Review material certificates, mix designs, test results and construction procedures	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that materials conform to the approved construction documents. Mix design, test results, material certificates, and construction procedures should be submitted to inspector for review. Mortar mix designs shall conform to ASTM C 270 while grout shall conform to ASTM C 476. Material certificates shall be provided for reinforcement; anchors, ties, fasteners, and metal accessories; masonry units; mortar and grout materials. Construction procedures for cold-weather or hot-weather construction shall be reviewed.
<b>AS MASONRY CONSTRUCTION BEGINS (TABLE 4, TMS-602-16):</b>			
Proportions of site-prepared mortar	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that mortar is of the type and color specified on the construction documents, that it conforms to ASTM C 270, and that it is mixed in accordance with Article 2.6 A of TMS-602-16.
Grade and size of prestressing tendons and anchorages	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that prestressing tendons comply with Article 2.4 B of TMS-602-16 and that anchorages, couplers, and end blocks comply with Article 2.4 H.
Reinforcement, connectors, and anchorages	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that reinforcement, connectors, and anchorages are of the proper grade, type and size in accordance with Article 3.4 of TMS-602-16. Prestressing tendons shall be placed per Article 3.6 A.
Prestressing technique	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that prestressing technique complies with Article 3.6 B of TMS-602-16.
Properties of thin-bed mortar for AAC masonry	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that mortar complies with Article 2.1 C of TMS-602-16. (If Risk Category IV this should be performed on a continuous basis.)
Sample panel	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that sample panels are properly constructed and that subsequent work conforms per Article 1.6 D of TMS-602-16. (If Risk Category IV this should be performed on a continuous basis.)
<b>PRIOR TO GROUTING (TABLE 4, TMS-602-16):</b>			
Grout space	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that grout space is free of mortar droppings, debris, loose aggregate, and other deleterious materials and that cleanouts are provided per Article 3.2 D and 3.2 F of TMS-602-16. (If Risk Category IV this should be performed on a continuous basis.)
Placement of prestressing tendons and anchorages	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that prestressing tendons and anchorages are installed per the approved construction documents and per Articles 2.4 and 3.6 of TMS-602-16.
Placement of reinforcement, connectors, and anchor bolts	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that reinforcement, joint reinforcement, wall ties, anchor bolts and veneer anchors are installed in accordance with the approved construction documents and Articles 3.2 E and 3.4 of TMS-602-16. (If Risk Category IV this should be performed on a continuous basis.)



Proportions of site-prepared grout and prestressing grout for bonded tendons	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that grout is proportioned per ASTM C 476 and has a slump between 8-11 inches. Self-consolidated grout shall not be proportioned onsite. (see Articles 2.6 B and 2.4 G.1.b of TMS-602-16.)
<b>DURING MASONRY CONSTRUCTION (TABLE 4, TMS-602-16):</b>			
Materials and procedures	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Ensure that materials and procedures conform to the approved construction documents and Article 1.5 of TMS-602-16.
Placement of masonry units and mortar joint construction	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that masonry units are properly placed and that mortar joint construction conforms to Article 3.3 B of TMS-602-16.
Size and location of structural elements	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify the locations of structural elements with respect to the approved plans and confirm that tolerances meet the requirements of Article 3.3 F of TMS-602-16.
Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that correct anchorages and connections are provided per the approved plans and Sections 1.2.1, 6.2.1 and 6.3.1 of TMS-402-16. (If Risk Category IV this should be performed on a continuous basis.)
Welding of reinforcement	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Preparation, construction, and protection of masonry during cold weather (<40°F) or hot weather (>90°F).	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that cold-weather construction is performed in accordance with Article 1.8 C of TMS-602-16 and hot weather construction per Article 1.8 D of TMS-602-16.
Application and measurement of prestressing force	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Placement of grout and prestressing grout for bonded tendons is in compliance	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Placement of AAC masonry units and construction of thin-bed mortar joints	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that mortar is placed in accordance with Article 3.3 B.9 of TMS-602-16. (If Risk Category IV this should be performed on a continuous basis.)
Observation of grout specimens, mortar specimens, and/or prisms	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Confirm that specimens/prisms are performed as required by Article 1.4 B of TMS-602-16. (If Risk Category IV this should be performed on a continuous basis.)
<b>MINIMUM TESTING:</b>			
Verification of $f'_m$ and $f'_{AAC}$	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Determine the compressive strength for each wythe by the “unit strength method” or by the “prism test method” as specified in Article 1.4 B of TMS 602-16 prior to construction. (For Risk Category IV buildings this should be verified at every 5,000ft <sup>2</sup> of construction.)
Verification of Slump Flow and Visual Stability Index (VSI) for self-consolidating grout	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Compressive strength tests should be performed in accordance with ASTM C 1019 for slump flow and ASTM C 1611 for VSI.
Verification of proportions of materials in premixed or pre-blended mortar and grout	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that proportions for mortar meet ASTM C 270 and proportions for grout meet ASTM C 476. (This applies to Risk Category IV buildings only.)



### WOOD CONSTRUCTION (IBC 1705.5, 1705.11.1 & 1705.12.2)

<i>Item</i>			<i>Detailed Instructions and Frequencies</i>
High-load diaphragms	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify thickness and grade of sheathing, size of framing members at panel edges, nail/staple diameters and length, and the number of fastener lines and fastener spacing per approved plans. <b>Performed by code inspection firm.</b>
Wood trusses spanning > 60-feet	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that temporary and permanent truss bracing is installed in accordance with approved truss package. <b>Performed by code inspection firm.</b>
Structural wood	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	If fastener spacing is < 4"o.c.: Verify that proper nailing, bolting, anchoring and other fastening of shear walls, diaphragms, drag struts, braces, and holdowns. <b>Performed by code inspection firm.</b>

### MASS TIMBER CONSTRUCTION (IBC 1705.5.3)

<i>Item</i>			<i>Detailed Instructions and Frequencies</i>
Anchorage of connections of mass timber to timber deep foundation systems	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	
Erection of mass timber construction	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	
Sealing of mass timber	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Where sealant or adhesive required by IBC 703.7 is applied to mass timber building elements in the construction documents.
Inspection of connections where installation methods are required to meet design loads	See below	See below	
Threaded fasteners	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify use of proper installation equipment Verify use of pre-drilled holes where required. Inspect screws, including diameter, length, head type, spacing, installation angle and depth.
Adhesive anchors installed horizontally or upwardly inclined to resist sustained tension	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Adhesive anchors installed downwardly inclined	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	
Bolted connections	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	
Concealed connections	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	

### SOILS CONSTRUCTION (IBC 1705.6)

<i>Item</i>			<i>Detailed Instructions and Frequencies</i>
Verify subgrade is adequate to achieve design bearing capacity	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Prior to placement of concrete.
Verify excavations extend to proper depth and material	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Prior to placement of compacted fill or concrete.
Verify that subgrade has been appropriately prepared prior to placing compacted fill	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Prior to placement of compacted fill.
Perform classification and testing	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	All materials shall be checked at each lift for proper





of compacted fill materials			classifications and gradations not less than once for each 10,000ft <sup>2</sup> of surface area.
Verify proper materials, densities and lift thicknesses during placement and compaction.	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Verify use of proper materials and procedures in accordance with the geotechnical report. Verify densities and lift thicknesses during placement and compaction of compacted fill.

### DRIVEN DEEP FOUNDATIONS (IBC 1705.7)

<i>Item</i>			<i>Detailed Instructions and Frequencies</i>
Verify materials, sizes and lengths	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Determine capacities and conduct necessary load tests	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Observe driving operations	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Verify placement locations & plumbness, confirm type & size of hammer, record number of blows per foot, record tip and butt elevations and document any damage to element	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Perform additional inspections for steel, concrete or other specialty elements.	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Steel per IBC 1705.2 Concrete per IBC 1705.3 Specialty items per registered design professional

### CAST-IN-PLACE DEEP FOUNDATIONS (IBC 1705.8)

<i>Item</i>			<i>Detailed Instructions and Frequencies</i>
Observe drilling operation and reporting	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Verify placement locations & plumbness, confirm element diameters, lengths, embedment and adequate end-bearing capacity. Record concrete or grout volumes.	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Perform additional inspections for concrete elements.	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Concrete per IBC 1705.3

### HELICAL PILE FOUNDATIONS (IBC 1705.9)

<i>Item</i>			<i>Detailed Instructions and Frequencies</i>
Record installation equipment used, pile dimensions, tip elevations, final depth, and final installation torque	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Verify that helical piles used match the approved submittal	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	

### SPRAYED FIRE-RESISTANT MATERIALS (IBC 1705.15)

<i>Item</i>			<i>Detailed Instructions and Frequencies</i>
Surface preparation	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Prior to application confirm that surface has been



			prepared per the approved fire-resistance design and manufacturer's instructions.
Material thickness	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Samples shall be taken from selected floor, roof and wall assemblies and structural members. No more than 10% of the samples shall be less than the thickness required by the fire-resistance design.
Material density	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Density tests shall be performed in accordance with ASTM E 605 for every 2,500ft <sup>2</sup> of floor, roof or wall area. One sample must also be provided for each beam, girder, truss or column at each story.
Bonding strength	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Bond strength tests shall be performed in accordance with ASTM E 736 for every 2,500ft <sup>2</sup> of floor, roof or wall area. One sample must also be provided for each beam, girder, truss or column at each story. The bond strength shall not be less than 150psf.

### MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS (IBC 1705.16 & AWCI 12-B)

<i>Item</i>	<i>Detailed Instructions and Frequencies</i>		
Surface preparation	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Prior to application confirm that surface temperature and substrate are acceptable and that a compatible primer is used in accordance with AWCI 12-B.
Thickness	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Record thickness of primer or other existing coating on substrate prior to application of coating. Final thickness of coating must be verified in multiple locations prior to applying topcoat per AWCI 12-B.

### EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) (IBC 1705.17)

<i>Item</i>	<i>Detailed Instructions and Frequencies</i>		
Material and installation	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that water-resistive barrier, complying with ASTM E 2570, is installed appropriately over a sheathing substrate. <b>Performed by code inspection firm.</b> (Not required if applied over concrete, masonry, or if a means of draining moisture to exterior is provided.)

### FIRE-RESISTANT PENETRATIONS AND JOINTS (IBC 1705.18)

- Only required for high-rise buildings or those assigned to Risk Category III or IV per IBC Table 1604.5 or in fire areas containing group R occupancies with an occupant load greater than 250.

<i>Item</i>	<i>Detailed Instructions and Frequencies</i>		
Penetration firestops	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Listed systems shall be inspected in accordance with ASTM E 2174.
Fire-resistant joint systems	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Listed systems shall be inspected in accordance with ASTM E 2393.

### SMOKE CONTROL (IBC 1705.19)

<i>Item</i>	<i>Detailed Instructions and Frequencies</i>		
Verify device locations and perform leakage testing	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	During erection of ductwork and prior to concealment. As defined by rational analysis.
Pressure difference testing, flow measurements and detection and	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Prior to occupancy and after sufficient completion. As defined by rational analysis.



control verification			
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### ARCHITECTURAL COMPONENTS (IBC 1705.13.5)

➤ Only required for buildings located within Seismic Design Category D, E, or F.

Item			Detailed Instructions and Frequencies
Erection and fastening of exterior cladding or interior and exterior veneers	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify appropriate materials, fasteners and attachment at commencement of work and at completion. <b>Performed by code inspection firm.</b> (Not required if < 30 feet or less than 5psf).
Erection and fastening of interior and exterior nonbearing walls	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify appropriate materials, fasteners and attachment at commencement of work and at completion. <b>Performed by code inspection firm.</b> (Not required if < 30 feet or for interior walls < 15psf).
Access floors	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that anchorage complies with approved construction documents. Inspection of post-installed anchors shall comply with approved ICC-ES report. <b>Performed by code inspection firm.</b>

### STORAGE RACKS (IBC 1705.13.7)

➤ Only required for buildings located within Seismic Design Category D, E, or F.

Item			Detailed Instructions and Frequencies
Materials used	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	
Fabricated storage rack elements	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	IBC 1704.2.5
Storage rack anchorage installation.	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that anchorage complies with approved construction documents. Inspection of post-installed anchors shall comply with approved ICC-ES report. <b>Performed by code inspection firm.</b>
Completed storage rack system	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that completed system complies with the approved construction documents. <b>Performed by code inspection firm.</b>

### MECHANICAL & ELECTRICAL COMPONENTS (IBC 1705.13.6)

➤ Only required for buildings located within Seismic Design Category C, D, E, or F.

Item			Detailed Instructions and Frequencies
Anchorage of emergency or standby power systems	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that anchorage complies with approved construction documents. <b>Performed by code inspection firm.</b>
Installation of piping systems carrying flammable, combustible or highly toxic materials	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that installation and restraint comply with approved construction documents. <b>Performed by code inspection firm.</b>
Installation of HVAC ductwork containing hazardous materials	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that installation and restraint comply with approved construction documents. <b>Performed by code inspection firm.</b>
Installation of vibration isolation systems having a clearance of ≤1/4"	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that installation complies with approved construction documents and manufacturer's recommendations. <b>Performed by code inspection firm.</b>



Clearances to fire sprinkler drops and sprigs	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that 3-inches of clearance exists between MEP or structural elements and sprinkler drops or sprigs. <b>Performed by code inspection firm.</b> (Not required if flexible sprinkler piping is used).
Designated seismic systems	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify seismic qualification per Section 13.2.2 of ASCE 7. Verify that the label, anchorage or mounting conforms to the manufacturer's certificate of compliance. <b>Performed by code inspection firm.</b>

### SEISMICALLY ISOLATED STRUCTURES (IBC 1705.13.8 & 1705.14.4)

<i>Item</i>	<i>Detailed Instructions and Frequencies</i>		
Prototype tests	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Prototype tests shall be performed on selected samples prior to construction in accordance with Section 17.8 of ASCE 7-16.
Fabrication and installation	<input type="checkbox"/> Continuous	<input checked="" type="checkbox"/> Periodic	Verify that fabrication and installation of isolator units and energy dissipation devices conform to manufacturer's recommendations and approved construction documents.

### SPECIAL CASES (IBC 1705.1.1) – material alternatives or unusual design applications

<i>Item</i>	<i>Detailed Instructions and Frequencies</i>		
Material and installation	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	Per design professional in responsible charge or report from an accepted accreditation agency (i.e. ICC-ES).

### MISCELLANEOUS AREAS

➤ *These inspections may be recommended by the Architect/Engineer and are to be approved by DFCM.*

<i>Item</i>	<i>Detailed Instructions and Frequencies</i>		
Suspended Acoustical Ceilings	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	<b>Performed by code inspection firm.</b>
Soil backfill (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Soils for curb and gutter (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Soils for parking lots (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Soils for utility trench backfill	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Reinforcement for slab on grade sidewalks and drive approaches (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Reinforcement for interior slab on grade (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Concrete testing for slab on grade sidewalks and drive approaches (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Concrete testing for interior slab on grade (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Asphalt inspection (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	



Asphalt testing (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Steam and water line welding (specify locations and frequency)	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Seismic supports for duct work and sealing of joints for duct work	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Seismic supports for electrical raceways, cable trays and lights	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Seismic supports for plumbing lines including gas, water and steam and condensation	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
Seismic bracing for mechanical units both on slab and suspended	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	
	<input type="checkbox"/> Continuous	<input type="checkbox"/> Periodic	

**Special Inspectors Shall:**

- Be approved by the Building Official prior to performing any duties;
- Provide proof of licensure as a special inspector by the State of Utah for each type of inspection;
- Inspection reports are to meet the requirements of IBC 1704.2.4 and DFCM standards;
- Inspection reports are to be submitted to the code consultant, architect, DFCM project manager, and the State of Utah Building Official within 48 hours of performing inspections;
- A final inspection report shall be submitted following completion of the project documenting the types of special inspections performed and a statement indicating that the structure is in compliance with the approved construction documents and applicable codes (see IBC 1704.2.4).

**CONTRACTOR’S STATEMENT OF RESPONSIBILITY (IBC 1704.4)**

The following statement must be provided on the plans along with a signature from the contractor prior to permit issuance.

<p>Each contractor involved with the construction of wind or seismic force-resisting systems shall comply with the requirements of IBC 1704.4. The contractor is responsible for providing the special inspector access to approved plans and contract documents at the job site. All special inspection records shall be retained at the job site by the contractor and shall be made available to the Building Department upon request.</p>	
<p><b>Declaration by General Contractor</b></p> <p>I, the General Contractor of the project, agree to comply with the “Contractor Responsibility” items noted above.</p>	
<p>_____</p> <p>Signature</p>	<p>_____</p> <p>Date</p>



**STRUCTURAL OBSERVATIONS (IBC 1704.6)**

<i>Item</i>	<i>Proposed Frequency</i>	<i>Name of Structural Observer</i>
Footings & Piers	<input type="checkbox"/> Required	
Mat Foundations	<input type="checkbox"/> Required	
Deep Foundations	<input type="checkbox"/> Required	
Grade Beams	<input type="checkbox"/> Required	
Concrete Walls	<input type="checkbox"/> Required	
Masonry Walls	<input type="checkbox"/> Required	
Wood Walls	<input type="checkbox"/> Required	
Steel Moment Frames	<input type="checkbox"/> Required	
Steel Braced Frames	<input type="checkbox"/> Required	
Concrete Moment Frames	<input type="checkbox"/> Required	
Concrete Diaphragms	<input type="checkbox"/> Required	
Steel Deck Diaphragms	<input type="checkbox"/> Required	
Wood Diaphragms	<input type="checkbox"/> Required	
Post-tensioned Deck	<input type="checkbox"/> Required	
Other:	<input type="checkbox"/> Required	
Other:	<input type="checkbox"/> Required	
Other:	<input type="checkbox"/> Required	
Other:	<input type="checkbox"/> Required	

**Structural Observer's Shall:**

- Provide proof of licensure as a licensed professional/structural engineer by the State of Utah;
- If structural observations are performed by individuals other than the design professional in responsible charge, they should first be approved by the Building Official.
- At the conclusion of work a final structural observation report must be submitted to the Building Official noting any deficiencies which, to the best of the structural observer's knowledge, have not been resolved (see IBC 1704.6).

*Last Revised: 8/2023*