

## SPECIAL INSPECTION PROCEDURE IBC CHAPTER 17, 2018 EDITION

#### When Required

All projects that require a SC Licensed Architect or Engineer per SC Architectural and Engineering Registration Law.

#### Overview

The program consists of the following forms, which must be filled out and submitted to the building department by the SC Design Professional in Responsible Charge, Contractor and Individuals and Firms performing special inspections.

#### The forms are as follows:

Owners Acknowledgement and Identification of the Design Professional in Responsible Charge Earthquake and Wind Design Data Form
Contractor's Statement of Responsibility
The Individual and Firms Performing Special Inspections
The Statement "Schedule" of Special Inspections
(All above forms shall be submitted at the time of application for Plan Review)

Final Report of Special Inspections

(Shall be submitted prior to request for Certificate of Occupany inspection)

#### Owners Acknowledgement and Identification of the Design Professional in Responsible Charge

The Owner shall provide the appropriate information and sign the form to acknowledge that he/she is the owner of the project and that he/she has contracted with the Design Professional in Responsible Charge to administer special inspections. This form also provides the general information about the project and identifies the SC Design Professional in Responsible Charge as required in IBC Section 107.1. This form is submitted as a condition for permit issuance and as a commitment to Special Inspections.

#### **Earthquake and Wind Design Data Form**

This form is to be completed by the Structural Engineer and must be consistent with the Structural Analysis on the construction documents.

#### Contractor's Statement of Responsibility

This form is to be filled out by the contractor.

#### The Individual and Firms Performing Special Inspections

The qualifications for the inspector will be specific to the inspection performed. The minimum qualifications will be as listed by the SCLLR Qualification Requirements for Special Inspectors, or as approved by the Building Official. The forms will be reviewed by the Building Official for completeness.

#### Statement "Schedule" of Special Inspections

This form is to be completed by the Design Professional in Responsible Charge. It is a complete list of all required inspections. A "Y" is to be entered in each box where inspections are required for the project and a "N" where they are not.

#### **Final Report of Special Inspections**

The SC Design Professional in Responsible Charge shall review all field reports for all inspections performed. The Final Report of Special Inspections shall then be completed, sealed and signed by the SC Professional Engineer of Special Inspection Firm.

#### **Field Reports**

All field reports generated from the inspections must be kept on the jobsite in a binder with the Chester County approved drawings and contain the following information:

- The project name and Permit Number
- The project address
- The name address and phone number of the individual/firm performing the inspection and generating the report
- The IBC Section referenced on the Statement "Schedule" of Special Inspections. The criteria for each inspection must be performed as outlined (periodic or continuous).

# OWNERS ACKNOWLEDGEMENT AND IDENTIFICATION OF THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE

Project:	Application No						
Project location:							
Project Owner:							
Address:							
Email:		Phone:					
I hereby acknowledge that I am the design professional listed below to a inspections for the project.							
Owners Signature		Date					
SC Registered Design Professional in	Responsible Charge:						
Name:	Lice	nse Number: SC					
Firm (optional):							
Phone:	E-Mail Address:						
This Owners Acknowledgement and Identifical permit issuance in accordance with the Special Schedule of Special Inspection Services applied other approved agencies that are to be retained.	al Inspection requirements of the Internation cable to this project as well as the name	onal Building Code, Chapter 17. It includes a					
The Special Inspector shall keep records of Responsible Charge and the Building Official. for correction. If such discrepancies are not on Responsible Charge and the Building Officesponsibilities.	Discovered discrepancies shall be brough orrected, the discrepancies shall be broug	nt to the immediate attention of the Contractor ght to the attention of the Design Professional					
A Final Report of Special Inspections documer noted in the inspections shall be submitted price	• • • • • • • • • • • • • • • • • • • •	•					
Job site safety and means and methods of con	struction are solely the responsibility of th	e Contractor.					
Design Professional in Responsible Charge:	Individual Seal	Firm Seal					
Signature Date							
Type or print name							

# Earthquake and Wind Design Data Form IBC Section 1609 Wind Loads and Section 1613 for Earthquake Loads

ject		Application No
		ormation related to seismic loads shall be shown, regardless of the lateral-force-resisting system of the building":
1. Ri	isk Category C 1604.5 (IBC Table 1604.5)	Importance Factor 2010 ASCE 7, Table 1.5-2
2. Ma	apped spectral response acceler GGS website, http://earthquake.usgs.gov/, IBC	ations $S_S$ and $S_1$
3. Sit	ite Class: C Section 1613.2.2 - Verify by soil test 1803.2	2, 2010 ASCE 7, Table 20.3-1
4. Sp	pectral Response Coefficients $S_{l}$ C Table 1613.2.3(1) and 1613.2.3(2), (Equat	$S_{DS}$ , $S_{D1}$
5. Se	eismic Design Category C Section 1613.2.5 and IBC Tables 1613.2.5	1) and 1613.2.5(2) Note: Most severe shall apply.
6. Ba	asic Seismic Force Resisting Sys	tem
7. De	esign Base Shear	Seismic Response Coefficient(s) C <sub>S</sub>
8. Re	esponse Modification Factor(s),	ASCE 7 Section 12.8.1.1, (equation) 12.8-2
Q Δr	nalysis procedure used	
Section		nation related to winds loads shall be shown, regardless of whether
Section of the sectio	Itimate Design Wind Speed (3 Section 1609.3.1 (Equation 16-33)	l-force-resisting system of the building": econd Gusts) V <sub>ult</sub> and (Nominal) V <sub>asd</sub>
Section Sectio	Itimate Design Wind Speed (3 Section 1609.3.1 (Equation 16-33)	I-force-resisting system of the building":  econd Gusts) V <sub>ult</sub> and (Nominal) V <sub>asd</sub> IBC 1604.5 (IBC Table 1604.5)
Section Sectio	Itimate Design Wind Speed (3 Section 1609.3.1 (Equation 16-33)  isk Category	I-force-resisting system of the building":  econd Gusts) V <sub>ult</sub> and (Nominal) V <sub>asd</sub> IBC 1604.5 (IBC Table 1604.5)  IBC Section 1609.4.3
Section Sectio	Itimate Design Wind Speed (3 Section 1609.3.1 (Equation 16-33)  isk Category  /ind Exposure  pplicable Internal Pressure Coeff	I-force-resisting system of the building":  econd Gusts) V <sub>ult</sub> and (Nominal) V <sub>asd</sub> IBC 1604.5 (IBC Table 1604.5)  IBC Section 1609.4.3
Section Sectio	Itimate Design Wind Speed (3 Section 1609.3.1 (Equation 16-33)  isk Category  /ind Exposure  pplicable Internal Pressure Coeff	I-force-resisting system of the building":  econd Gusts) V <sub>ult</sub> and (Nominal) V <sub>asd</sub> IBC 1604.5 (IBC Table 1604.5)  IBC Section 1609.4.3
Section Sectio	Itimate Design Wind Speed (3 Section 1609.3.1 (Equation 16-33)  isk Category  /ind Exposure  pplicable Internal Pressure Coeff	I-force-resisting system of the building":  econd Gusts) V <sub>ult</sub> and (Nominal) V <sub>asd</sub> IBC 1604.5 (IBC Table 1604.5)  IBC Section 1609.4.3  Ecient  for exterior component and cladding materials (psf)
Section of load and l	Itimate Design Wind Speed (3 Section 1609.3.1 (Equation 16-33)  isk Category  /ind Exposure  pplicable Internal Pressure Coeffeesign wind pressures to be used  Licensed Engineer to affix seal on the rovide phone number.	I-force-resisting system of the building":  and (Nominal) V <sub>asd</sub> IBC 1604.5 (IBC Table 1604.5)  IBC Section 1609.4.3  Icient  for exterior component and cladding materials (psf)  Individual Seal  Firm Seal
Section Sectio	Itimate Design Wind Speed (3 Sec Section 1609.3.1 (Equation 16-33)  isk Category  /ind Exposure  pplicable Internal Pressure Coeff esign wind pressures to be used Licensed Engineer to affix seal on the rovide phone number.	I-force-resisting system of the building":  cond Gusts) V <sub>ult</sub> and (Nominal) V <sub>asd</sub> IBC 1604.5 (IBC Table 1604.5)  IBC Section 1609.4.3  cient  for exterior component and cladding materials (psf)  is document  Individual Seal  Firm Seal
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Section of Section 1. Ultilibroria.  2. Ri. 3. W 4. Ap 5. De A SC L and pro Name Firm _ Phone	Itimate Design Wind Speed (3 Sec Section 1609.3.1 (Equation 16-33)  isk Category  /ind Exposure  pplicable Internal Pressure Coeff esign wind pressures to be used Licensed Engineer to affix seal on the rovide phone number.	I-force-resisting system of the building":  econd Gusts) V <sub>ult</sub> and (Nominal) V <sub>asd</sub> IBC 1604.5 (IBC Table 1604.5)  IBC Section 1609.4.3  Idicient  for exterior component and cladding materials (psf)  is document

### **Contractor Statement of Responsibility**

Project	Application No
<b>`</b> ,	esponsibility: For the construction of a seismic-force-resisting system wind or seismic resisting component listed the Statement of Special
Project Name:	
Project Address:	
Contractor's Name:	
Contractors Phone Number:	
Contractor's E-Mail Address:	
Contractor's License Number	·
Contractors Address:	
I hereby acknowledge that the Statement of Special Inspec	t I have read and am aware of the special requirements contained intions.
2. I hereby acknowledge that documents reviewed by the Buil	t control will be exercised to obtain conformance with the construction ding Official.
	ring binder that is kept on the jobsite with the County Reviewed nts in the binder shall be kept in the order referenced in the "Statement of
4. Upon entry of the "Final Rep	ort of Inspections" the Special Inspection Binder shall be delivered to:
Chester County Building Official 1476 J.A. Cochran Bypass Chester, SC 29706	
5. Control of this process will be	exercised by:
Name:	Phone: E-Mail Address:
Position in the Organization:	
Signature	Date
Print Name	

### INDIVIDUALS AND FIRMS PERFORMING SPECIAL INSPECTIONS

(MUST BE LICENSED OR REGISTERED WITH SCLLR)

Project	Application No							
Inspectors performing work on the project, that are not be submitted to SCLLR for performance of work without SPECIAL INSPECTOR PHONE / EMAIL		pecial Inspector,EIT, or PE will CLASSIFICATION(S)						
1								
2								
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12								
	, ,							

#### SPECIAL INSPECTORS REGISTRATION CLASSIFICATIONS

(RC) Reinforced Concrete (PTC) Post-tension Cables (SW) Welding (FP) Sprayed Fire Resistive Material (HSB) High Strength Bolting (EIFS) Exterior Insulation and Finish System (SF) Steel Frame (SC) Smoke Control

(NDT) Non-destructive Testing (PCF) Pre-cast Fabrication (EW) Earth Work which includes Excavation and Filling, and, Verification of Soils (SR) Seismic Resistance (RB) Retention Basins (DF) Deep Foundations (SM) Structural Masonry

(MRW) Modular Retaining Walls

### STATEMENT "Schedule" OF SPECIAL INSPECTIONS

#### 2018 IBC SECTION 1705

ProjectApplication No								
ın Pro	fessional				License No	0		
Item #	Verification & Inspection	Continuous	Periodic	Req. Y/N	Reference Standard or Compliance Document	IBC Reference	Special Inspector	
4 Repo	rt Requirement							
1	Special Inspector to keep record of special inspections and furnish inspection reports to the building official and to the Registered design professional in responsible charge.	•	1			1704.2.4		
5 Inspe	ction of Fabricated Items							
1	Work done in fabricator shop requires inspector unless the fabricator is registered and approved according to IBC 1704.2.5.1. Where fabricator is approved, provide fabricator certification document.	1	•			1704.2.5 Document Required		
2	At completion of fabrication, submit certificate of compliance to building official stating the work was performed in accordance with the approved construction documents.		•			1704.2.5.1 Document Required		
Statem	ent of Special Inspections							
	A registered design professional in responsible charge shall prepare a statement of special inspections		•			1704.3 (THIS DOCUMENT)		
Contra	ctor Responsibility							
	Each contractor responsible for the construction of a main wind- or seismic force resisting system, designated seismic system or a wind- or seismic-resisting component listed in the statement of special inspections shall submit a written statement of responsibility.	ı	•			1704.4 (Page 4 Document required)		
Submit	tals to the Building Official							
	In addition to the submittal reports of special inspections and tests in accordance with Section 1704.2.4, reports and certificates shall be submitted by the owner or owner's authorized agent to the building official for each of the following.	•	-			1704.5		
1	Certificates of compliance for the fabrication of structural, load-bearing or lateral load-resisting members or assemblies on the premises of a registered and approval fabricator in accordance with Section 1704.2.5.1	•			Section 1704.2.5.1 (Fabricator)	1704.5		
2	Certificates of compliance for the seismic qualification of nonstructural components, supports and attachments in accordance with Section 1705.13.2	•			Section 1705.13.2	1704.5		
	# Egg 4 Repo	Verification & Inspection	Verification & Inspection   Special Inspection   Special Inspector to keep record of special inspections and furnish inspection reports to the building official and to the Registered design professional in responsible charge.   Sinspection of Fabricated Items	Verification & Inspection	Verification & Inspection	Verification & Inspection   Special Inspector to keep record of special Inspectors and furnish inspection professional in responsible charge.   Sinspection reports to the building official and to the Registered design professional in responsible charge.   Sinspection of Fabricated Hems	Verification & Inspection   Section   Sectio	

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Category	Item #	Verification & Inspection	Continuous	Periodic	Req Y/N	Reference Standard or Compliance Document	IBC Reference	Agent
Rep.	3	Certificates of compliance for designated seismic systems in accordance with Section 1705.13.3	•			Section 1705.13.3	1704.5 and 1704.3.2	
Rep.	4	Reports of preconstruction tests for shotcrete in accordance with Section 1908.5	•			Section 1908.5	1704.5	
Rep.	5	Certificates of compliance for open web steel joist and joist girders in accordance with Section 2207.5	•			Section 2207.5	1704.5	
Rep.	6	Reports of material properties verifying compliance with the requirements of AWS D1.4 for weldability as specified in Section 26.6.4. of ACI 318 for reinforcing bar in concrete complying with a standard other than ASTM A 706 that are to welded	•			AWS D1.4 Section Section 26.6.4 of ACI 318 ASTM A 706	1704.5	
Rep.	7	Reports of mill tests in accordance with Section 20.2.2.5 of ACI 318 for reinforcing bars complying with ASTM A 615 and used to resist earthquake-induced flexural or axial forces in the special moment frames, special structural walls or coupling beams connecting special structural walls of seismic force-resisting systems in structures assigned to Seismic Design Category B, C, D, E, or F	•			Section 20.2.2.5 of ACI 318 ASTM A 615	1704.5	
1704 6	Structu	ural Observation						
1704.0	Structo		П			T		
Rep.		The owner shall employ a registered design professional to perform structural observation. Prior to commencement of observation, the structural observer shall submit to the building official a written statement identifying frequency and extent of structural observations.		•		Seismic Design Category D, E or F only Wind Requirements Vasd Exceeds 110 MPH	1704.6.1 1704.6.2, and 1704.6.3	
1705.2	1 Steel	Construction Inspection						
Stl.	1	Structural Steel shall be in accordance with the quality assurance inspection requirements of AISC 360				AISC 360	1705.2.1	
1705.2	.2 to 17	05.2.4 Steel Construction other than S	truct	ural S	Steel Insp	ection		
Stl.	1	Material verification of high-strength bolts, nuts and washers				ASTM Standards	1705.2	
Stl.	1a	Identification markings to conform to ASTM standards specified in the approved construction documents		•		AISC 360, Section A3.3 and applicable ASTM material standards	1705.2	
Stl.	1b	Manufacturer's certificate test reports		•			1705.2	
Stl.	2	Inspection of welding						
	2a.	Cold-formed steel deck						
Stl.	2a (1)	Floor and roof deck welds				AWS D1.3	1705.2	

Category	Item #	Verification & Inspection	Continuous	Periodic	Req Y/N	Reference Standard or Compliance Document	IBC Reference	Agent
Stl (reinf)	2b	Reinforcing steel					1705.2	
Stl. (reinf)	2b (1)	Verification of weldability of reinforcing steel other than ASTM A 706		•		AWDS D1.4 ACI 318: 3.5.2	1705.2	
Stl (reinf)	2b (2)	Reinforcing steel-resisting flexural and axial forces	•			AWDS D1.4 ACI 318: 3.5.2	1705.2	
Stl. (reinf)	2b (3)	Shear reinforcement	•			AWDS D1.4 ACI 318: 3.5.2	1705.2	
Stl. (reinf)	2b (4)	Other reinforcing steel		•		AWDS D1.4 ACI 318: 3.5.2	1705.2	
1705.2.	3 Inspe	ection of Open-web Steel Joist and Joi	st Gi	rders				
Stl.	1	Installation of open-web steel joist and joist girders					Table 1705.2.3	
Stl.	1a	End connections – welding or bolted		•		SJI specification listed in Section 2207.1	Table 1705.2.3	
Stl.	1b	Bridging – horizontal or diagonal					Table 1705.2.3	
Stl.	1b (1)	Standard bridging		•		SJI specification listed in Section 2207.1	Table 1705.2.3	
Stl.	1b (2)	Bridging that differs from the SJI specifications listed in Section 2207.1		•			Table 1705.2.3	
1705.3	Concre	ete Construction						
Conc.	1	Inspection of reinforcing steel including prestressing tendons, and placement		•		ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3, 35 and IBC 1908.4	1705.3	
Conc.	2	Reinforcing bar welding					Table 1705.3	
Conc.	2a	Verify weldability of reinforcing bars other than ASTM A 706		•			Table 1705.3	
Conc.	2b	Inspect single-pass welds, maximum 5/16"		•		IBC 1905 AWS D1.4 ACI 318: 26.5.4	Table 1705.3	
Conc.	2c	Inspect all other welds	•				Table 1705.3	
Conc.	3	Inspection of anchors cast in concrete		•		IBC 1905 ACI 318: 17.8.2	Table 1705.3	
Conc.	4	Inspection of anchors post-installed in hardened concrete members						
Conc.	4a	Adhesive anchors installed in horizontally or upwardly inclined	•			ACI 318: 17.8.2.4	Table 1705.3	
Conc.	4b	Mechanical anchors and adhesive anchors not defined in 4a		•		ACI 381: 17.8.2	Table 1705.3	
Conc.	5	Verifying use of required design mix		•		ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3, Table 1705.3	

Category	Item #	Verification & Inspection	Continuous	Periodic	Req Y/N	Reference Standard or Compliance Document	IBC Reference	Agent
Conc.	6	Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	•			ASTM C172 ASTM C31 ACI 318: 26.4.5, 26.12	1908.10 & Table 1705.3	
Conc.	7	Inspection of concrete and shotcrete placement for proper application techniques	•			ACI 318: 26.4.5	1908.6, 1908.7, 1908.8, Table 1705.3	
Conc.	8	Verify maintenance of specified curing temperature and techniques		•		ACI 318: 26.4.7 – 26.4.9	1908.9 & Table 1705.3	
Conc.	9	Inspection of pre-stressed concrete						
Conc.	9a	Application of pre-stressing forces	•			ACI 318: 26.9.2.1	Table 1705.3	
Conc.	9b	Grouting of bonded pre-stressing tendon	•			ACI 318: 26.9.2.3	Table 1705.3	
Conc.	10	Inspect erection of precast concrete members		•		ACI 318: Ch. 26.9	Table 1705.3	
Conc.	11	Verification of in-situ concrete strength, prior to stressing of tendons in post0tensioned concrete and prior to removal of shores and forms from beams and structural slabs		•		ACI 318: 26.11.2	Table 1705.3	
Conc.	12	Inspect formwork for shape, location and dimensions of the concrete member being formed	-	•		ACI 318: 26.11.1(b)	Table 1705.3	
1705.4	Mason	ry Construction						
Mas.		Masonry construction shall be inspected and verified per standards	•	•		TMS 402 and TMS 602	1705.4	
Mas.	1	Empirically design masonry, glass unit masonry and masonry veneer in Risk Category IV	•			Section 2109, 2110 or Chapter 14, Section 1604.5, shall comply with TMS 602 Level 2	1705.4.1	
Mas.	2	Vertical masonry foundation elements	1	•		IBC Section 1705.4	1705.4.2	
1705.5	Wood (	Construction						
Wd	1	High-Load Diaphragms		•		IBC Sec. 2306.2, Sec 1704.2, approved construction drawings	1705.5.1	
Wd	2	Metal-plate-connected wood trusses spanning 60 feet or greater	ı	•		Approved truss submittal package (bracing)	1705.5.2	
1705.6	Soils							
Soil	1	Verify materials below shallow foundations are adequate to achieve the design bearing capacity		•			Table 1705.6	
Soil	2	Verify excavations are extended to proper depth and have reached proper material		•			Table 1705.6	
Soil	3	Perform classification and testing of compacted fill materials	1	•			Table 1705.6	
Soil	4	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	•				Table 1705.6	

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Category	Item #	Verification & Inspection	Continuous	Periodic	Req Y/N	Reference Standard or Compliance Document	IBC Reference	Agent			
Soil	5	Prior to placement of compacted fill, observe sub-grade and verify that site has been prepared properly		•			Table 1705.6				
1705.7	1705.7 Driven Deep Foundation										
Drv	1	Verify element materials, sizes and lengths comply with the requirements	•				Table 1705.7				
Drv	2	Determine capacities of test elements and conduct additional load tests, as required	•				Table 1705.7				
Drv	3	Inspect driving operations and maintain complete and accurate records for each element	•				Table 1705.7				
Drv	4	Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element	•				Table 1705.7				
Drv	5	For steel elements, perform additional inspections in accordance with Section 1705.2					Sec. 1705.2 & Table 1705.7				
Drv	6	For concrete elements and concrete filled elements, perform additional inspections in accordance with Section 1705.3					Sec. 1705.2 & Table 1705.7				
Drv	7	For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge					Table 1705.7				
1705.8	Cast-In	-Place Deep Foundation									
CIP	1	Inspect drilling operations and maintain complete and accurate records for each element	•				Table 1705.8				
CIP	2	Verify placement locations and plumbness; confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end bearing strata capacity. Record concrete or grout volumes	•				Table 1705.8				
CIP	3	For concrete elements, perform additional inspections in accordance with Section 1705.3					Sec. 1705.3 & Table 1705.8				
1705.9	Helical	Pile Foundations									
HPF	1	Installation of helical pile foundations	•			Approved Geotechnical report and registered design professional	1705.9				
1705.10	0 Speci	al Inspections for Fabricated Items									
Fab		Special inspections of fabricated items shall be performed in accordance with Section 1704.2.5					Sec 1704.2.5 and 1705.10				
1705.1	1 Speci	al Inspections for Wind Resistance									
Wind		Wind Requirements for buildings and structures per 1705.11					1705.11				
Wind	1	Structural Wood	•				1705.11.1				
Wind	2	Cold-formed steel light-frame construction		•			1705.11.2				

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Category	Item #	Verification & Inspection	Continuous	Periodic	Req Y / N	Reference Standard or Compliance Document	IBC Reference	Agent			
Wind	3	Wind-resisting components.  1. Roof covering, roof deck and roof framing connections  2. Exterior wall covering and wall connections to roof and floor diaphragms and framing		•			1705.11.3				
1705.12	1705.12 Special Inspection for Seismic Resistance										
Seis	1	Structural Steel seismic resistance shall be in accordance with Section 1705.12.1.1 or 1705.12.1.2 as applicable				Section 1705.12.1.1 Section 1705.12.1.2	1705.12.1				
Seis	1a	Seismic force-resisting systems of structural steel in the seismic force-resisting systems of buildings and structures assigned to Seismic Design Category B, C, D, E or F shall be performed in accordance with the quality assurance of requirements of AISC 341.		•		AISC 341	1705.12.1.1				
Seis	1b	Structural steel elements in the seismic force resisting systems of buildings and structures assigned to Seismic Design Category B, C, D, E or F other than those covered in Section 1705.12.1.1, including struts, collectors, chords and foundation elements, shall be performed in accordance with the quality assurance requirements of AISC 341		•		Section 1705.12.1.1 AISC 341	1705.12.1.2				
Seis	2	Structural wood for the seismic force- resisting systems of structures assigned to Seismic Design Category C, D, E or F					1705.12.2				
Seis	2a	Structural wood field gluing operations of elements of seismic force-resisting system	•	1			1705.12.2				
Seis	2b	Structural wood fastening for nailing, bolting, anchoring and other fastening of elements of the seismic force-resisting system, including wood shear walls, wood diaphragms, drag struts, braces, shear panels and hold downs		•			1705.12.2				
Seis	3	Cold-formed steel light-frame construction for seismic force resisting systems of structures assigned to Seismic Design Category C, D, E or F					1705.12.3				
Seis	3a	For welding operations of elements of the seismic force resisting system		•			1705.12.3				
Seis	3b	For screw attachment, bolting, anchoring and other fastening of elements of the seismic forceresisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs		•			1705.12.3				
Seis	4	Designated seismic system verifications for structures assigned to Seismic Design Category C, D, E or F, the special inspector shall examine designated seismic systems requiring seismic qualification in accordance with Section 13.2.2 of ASCE 7 and verify that the label, anchorage and mounting conform to the certificate of compliance		•		Section 13.2.2 ASCE 7	1705.12.4				

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Category	Item #	Verification & Inspection	Continuous	Periodic	Req Y/N	Reference Standard or Compliance Document	IBC Reference	Agent
Seis	5	Architectural Components in D, E, or F		•		D, E, F	1705.12.5	
Seis	5.1	Access Floors in D, E, or F		•		D, E, F	1705.12.5.1	
Seis	6	Plumbing, Mechanical and Electrical Components					1705.12.6	
Seis	6a	Anchorage of electrical equipment for emergency or standby power systems, in C, D, E or F		•			1705.12.6	
Seis	6b	Anchorage of other electrical equipment in E or F		•			1705.12.6	
Seis	6c	Installation and anchoring of piping systems designed to carry hazardous materials and associated mechanical units in C, D, E or F		•			1705.12.6	
Seis	6d	Installation of HVAC ductwork that will carry hazardous materials in C, D, E or F		•			1705.12.6	
Seis	6e	Installation of vibration isolation systems with clearance less than 0.25 inches between equipment support frame and restraint where indicated on construction documents in C, D, E or F		•			1705.12.6	
Seis	7	Storage Rack during anchoring storage racks 8 feet or greater in height in D, E or F		•			1705.12.7	
Seis	8	Seismic Isolation System		•			1705.12.8	
Seis	9	Cold-formed steel special bolted moment frames in the seismic force- resisting systems of structures assigned to seismic Design Category D, E or F		•			1705.12.9	
1705.13	3 Testir	ng for Seismic Resistance						
Test	1	Structural Steel		•		Section 1705.13.1.1 Section 1705.13.1.2	1705.13.1	
Test	2	Seismic force-resisting systems		•		AISC 341	1706.13.1.1	
Test	3	Structural steel elements		•		AISC 341	1705.13.1.2	
Test	4	Seismic certification of nonstructural components and designated seismic systems		•		Per the registered design professionals requirements on the construction documents. Sec. 13.2 of ASCE 7	1705.13.2 and 1705.13.3	
Test	5	Seismically isolated structures		•		Sec. 17.8 of ASCE 7	1705.13.4	
1705.14	4 Spray	red Fire Resistant Materials						
FRM	1	Physical and visual tests: 1. Condition of substrates 2. Thickness of application 3. Density in pounds per cubic foot 4. Bond strength adhesion/cohesion 5. Condition of finished application		•			1705.14.1	
FRM	2	Structural member surface conditions in conformance with approved fire-resistance design and manufacturers instructions		•			1705.14.2	

Category	Item #	Verification & Inspection	Continuous	Periodic	Req Y/N	Reference Standard or Compliance Document	IBC Reference	Agent
FRM	3	Application per manufacturers instructions		•			1705.14.3	
FRM	4	Thickness		•		ASTM E605	1705.14.4	
FRM	4a	Minimum allowable thickness		•		ASTM E605	1705.14.4.1	
FRM	4b	Floor, roof and wall assemblies. Not less than four measurements for each 1,000 sq. ft. of the sprayed area in each story or portion thereof		•		ASTM E605	1705.14.4.2	
FRM	4c	Cellular decks. Thickness measurements shall be selected from a square area, 12 inches x 12 inches in size. A minimum of four measurements shall be made, located symmetrically within the square area		•		ASTM E605	1705.14.4.3	
FRM	4d	Fluted decks. Thickness measurements shall be selected from a square area, 12 inches x 12 inches in size. A minimum of four measurements shall be made, located symmetrically within the square area, including one of each of the following: valley, crest and sides		•		ASTM E605	1705.14.4.4	
FRM	4e	Structural members. Thickness testing shall be performed on not less than 25 percent of the structural members on each floor.		•		ASTM E605	1705.14.4.5	
FRM	4f	Beams and girders. Thickness measurements shall be made at nine locations around the beam or girder at each end of a 12-inch length		•		ASTM E605	1705.14.4.6	
FRM	4g	Joists and trusses. Thickness measurements shall be made at seven locations around the joist or truss at each end of a 12-inch length		•		ASTM E605	1705.14.4.7	
FRM	4h	Wide-flanged columns. Thickness measurements shall be made at twelve locations around the column at each end of a 12-inch length		•		ASTM E605	1705.14.4.8	
FRM	4i	Hollow structural section and pipe columns. Thickness measurements shall be made at minimum of four locations around the column at each end of a 12-inch length		•		ASTM E605	1705.14.4.9	
FRM	5	Density		•		ASTM E605	1705.14.4.9	
FRM	5a	From each floor, roof and wall assembly at the rate of not less than one sample for every 2,500 square feet or portion thereof of the sprayed area in each story		•		ASTM E605	1705.14.5	
FRM	5b	From beams, girders, trusses and columns at the rate of not less than one sample for each type of structural member for each 2,500 square feet of floor area or portion thereof in each story		•		ASTM E605	1705.14.5	
FRM	6	Bond strength (cohesive/adhesive)		•		ASTM E736	1705.14.6	
FRM	6a	Floor, roof and wall assemblies. Not less than one sample from each floor, roof and wall assembly for each 2,500 square feet of the sprayed area in each story or portion thereof		•		ASTM E736	1705.14.6.1	

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Category	Item #	Verification & Inspection	Continuous	Periodic	Req Y/N	Reference Standard or Compliance Document	IBC Reference	Agent	
FRM	6b	Structural members. Not less than one sample from each beam, girders, trusses, columns and other structural members for each type of structural member for each 2,500 square feet of the floor area in each story or portion thereof.		•		ASTM E736	1705.14.6.2		
FRM	6c	Primer, paint and encapsulate bond tests		•		ASTM E736	1705.14.6.3		
1705.15 Mastic and Intumescent Fire Resistant Coatings									
FRC	1	Verification and inspection of fire- resistance design designated in construction documents		•		AWCI 12-B	1705.15		
1705.16	Exteri	or Insulation and Finish Systems (EIF	S)						
EIFS	1	Field application (Special inspection not required where EIFS is installed over water resistant barrier with drainage system or over masonry or concrete)		•			1705.16		
EIFS	2	Water-Resistive Barrier Coating		•		ASTM E2570	1705.16.1		
1705.17	Fire-R	esistant Penetrations and Joint							
FRPJ	1	Verification in high-rise buildings or buildings assigned to Risk Category III or IV					1705.17		
FRPJ	1a	Penetration Firestops		•		ASTM E2174	1705.17.1		
FRPJ	1b	Fire-Resistant Joint System		•		ASTM E2393	1705.17.2		
1705.18	3 Smok	e Control							
Smoke	1	Smoke Control Inspection prior to concealment		•			1705.18.1(1)		
Smoke	2	Smoke Control Testing prior to occupancy		•			1705.18.1(2)		
Smoke	3	Qualifications of Inspector					1705.18.2		



### FINAL REPORT OF SPECIAL INSPECTIONS

Project:		Permit No.:				
Project location:						
•						
SC Registered Design						
Firm (optional):						
License No.: SC	Phone:	Fax:				
Address:						
	of Special Inspection	Special Inspections and/or Testing required for submitted for permit, have been contains the have been contained.				
All field reports, inspection reports considered an integral part of this		esults have been submitted to the Building D	epartment and are			
All individuals performing special icensed Special Inspector for each		oject are licensed by SCLLR or were super by SCLLR Building Code Council.	vised directly by a			
Prepared by:						
Type or print name						
Firm (optional)						
Signature	Date					
Individuals Seal		Firm Seal				