# APPROVED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION JANUARY 18, 2022

# FINAL EXPRESS TERMS FOR PROPOSED BUILDING STANDARDS OF THE DIVISION OF THE STATE ARCHITECT (DSA-SS AND DSA-SS/CC) REGARDING THE **2022 CAL**IFORNIA EXISTING BUILDING CODE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART **10**

# (DSA-SS/CC 06/21)

The State agency shall draft the regulations in plain, straightforward language, avoiding technical terms as much as possible and using a coherent and easily readable style. The agency shall draft the regulation in plain English. A notation shall follow the express terms of each regulation listing the specific statutes authorizing the adoption and listing specific statutes being implemented, interpreted, or made specific (Government Code Section 11346.2(a)(1)).

If using assistive technology, please adjust your settings to recognize underline, strikeout, highlight, italic and ellipsis.

## LEGEND for EXPRESS TERMS (Based on model codes - Parts 2, 2.5, 3, 4, 5, 9, 10)

* Model Code language appears upright
* Existing California amendments appear in *italic*
* Amended model code or new California amendments appear *underlined & italic*
* Repealed model code language appears ~~upright and in strikeout~~
* Repealed California amendments appear in *~~italic and strikeout~~*
* Ellipsis ( …) indicate existing text remains unchanged
* Instructions:  Text which contains instructions only that are not amendments and will not be printed appears in upright text with highlight.

# FINAL EXPRESS TERMS

## Chapter 1 SCOPE AND ADMINSTRATION

**CHAPTER 1**

**SCOPE AND ADMINSTRATION**

Adopt selected sections of Chapter 1 of the 2021 IEBC as Chapter 1 of the 2022 CEBC. All existing California amendments that are not revised below shall continue without change.

…

***1.9.2.1.3 Amendments.*** *Division of the State Architect—Structural Safety amendments in this code appear preceded with the acronym [DSA-SS].*

***Exception~~s~~:***

*~~1.~~ Chapter 3, Sections 317-323-DSA-SS adopts these sections without the use of the DSA-SS acronym.*

***1.9.2.1.4 Reference to other chapters.*** *For public schools, where reference is made to sections in Chapters 16, 17, 18, 19, 21 or 22 of the California Building Code, the provisions in Chapters 16A, 17A, 18A, 19A, 21A and 22A of the California Building Code respectively shall apply instead.*

…

***1.9.2.2.3 Amendments.*** *Division of the State Architect—Structural Safety/Community Colleges amendments in this code appear preceded with the acronym [DSA-SS/CC].*

*Exception~~s~~:*

*~~1.~~ Chapter 3, Sections 317-323—DSA-SS/CC adopts these sections without the use of the DSA-SS/CC acronym.*

***1.9.2.2.4 Reference to other chapters****. For community colleges, where reference is made to sections in Chapters 17 or 18 of the California Building Code, the provisions in Chapters 17A and 18A of the California Building Code respectively shall apply instead.*

…

**Associated Items:** None

**Notation for [DSA-SS]:**

Authority: Education Code section 17310, 81142, and Health and Safety Code section 16022

Reference(s): Education Code sections 17280 through 17317, 81130 through 81147, and Health and Safety Code sections16000 through 16023

**Notation for [DSA-SS/CC]:**

Authority: Education Code section 81053

Reference(s): Education Code sections 81052, 81053, and 81130 through 81147

## Chapter 2 DEFINITIONS, Section 202

**CHAPTER 2**

**DEFINITIONS**

Adopt selected sections of Chapter 2 of the 2021 IEBC as Chapter 2 of the 2022 CEBC as identified below.

…

**201.1 Scope.** Unless otherwise expressly stated, the following words and terms shall, for the purposes of this code, have the meanings shown in this chapter.

**201.2 Interchangeability.** Words used in the present tense include the future; words stated in the masculine gender include the feminine and neuter; the singular number includes the plural and the plural, the singular.

**201.3 Terms defined in other codes.** Where terms are not defined in this code and are defined in the other *California* Codes, such terms shall have the meanings ascribed to them in those codes. ***[DSA-SS & DSA-SS/CC]*** *Definitions of terms given in Section 4-208 or 4-314 of the California Administrative Code govern over those in Section 202.*

**201.4 Terms not defined.** Where terms are not defined through the methods authorized by this chapter, such terms shall have ordinarily accepted meanings such as the context implies.

…

(Relocated from Section 318.1) ***BUILDING OFFICIAL. [DSA-SS, DSA-SS/CC]*** *~~is that~~ The individual within the agency or organization charged with responsibility for compliance with the requirements of this code. For some agencies this person is termed the “enforcement agent.”*

…

(Relocated from Section 318.1) ***ENFORCEMENT AGENCY. [DSA-SS, DSA-SS/CC]*** *~~(Authority Having Jurisdiction in ASCE 41) is t~~The agency or organization charged with responsibility for agency or organization compliance with the requirements of this code, also known as the Authority Having Jurisdiction in ASCE 41.*

…

***REPAIR.*** (Withdrawn)

…

***SUBSTANTIAL STRUCTURAL DAMAGE.*** (Withdrawn)

…

**Associated Items: 3, 4**

**Notation for [DSA-SS]:**

Authority: Education Code section 17310, 81142, and Health and Safety Code section 16022

Reference(s): Education Code sections 17280 through 17317, 81130 through 81147, and Health and Safety Code sections16000 through 16023

**Notation for [DSA-SS/CC]:**

Authority: Education Code section 81053

Reference(s): Education Code sections 81052, 81053, and 81130 through 81147

## Chapter 3 PROVISIONS FOR ALL COMPLIANCE METHODS

**CHAPTER 3**

**PROVISIONS FOR ALL COMPLIANCE METHODS**

Adopt selected sections of Chapter 3 of the 2021 IEBC as Chapter 3 of the 2022 CEBC. All existing California amendments that are not revised below shall continue without change.

…

**301.2 Repairs.** (Withdrawn)

…

***317.2 Scope.*** *All ~~modifications~~ alterations, ~~structurally connected~~ additions and/or repairs to existing structures or portions thereof shall, at a minimum, be designed and constructed to resist the effects of seismic ground motions as provided in this section. The structural system shall be evaluated by a registered design professional and, if not meeting or exceeding the minimum seismic design performance requirements of this section, shall be retrofitted in compliance with these requirements.*

…

***317.5 Minimum seismic design performance levels for structural and nonstructural components.*** *Following the notations of ASCE 41, the seismic requirements for design and assessment are based upon a prescribed ~~Earthquake~~ Seismic Hazard Level (BSE-1N, BSE-2N, BSE-1E, BSE-R or BSE-C), a specified structural performance level (S-1 through S-5) and a nonstructural performance level (N-A through N-E). …*

…

***TABLE 317.5***

***SEISMIC PERFORMANCE REQUIREMENTS BY BUILDING REGULATORY AUTHORITY AND RISK CATEGORY.***

| *Building Regulatory Authority* | *Risk Category* | *Performance Criteria* | |
| --- | --- | --- | --- |
| *Level 1* | *Level 2* |
| *State-Owned [BSC]* | *I, II, II* | *BSE-R, S-3, N-C* | *BSE-C, S-5, N-D* |
| *State-Owned [BSC]* | *IV* | *BSE-R, S-2, N-B* | *BSE-C, S-4, N-D* |
| *Division of the State Architect - [DSA-SS]* | *I* | *BSE-1N, S-3, N-B* | *BSE-2N, S-5, N-D* |
| *Division of the State Architect - [DSA-SS]* | *II, III* | *BSE-1N, S-2, N-B* | *BSE-2N, S-4, N-D* |
| *Division of the State Architect - [DSA-SS]* | *IV* | *BSE-1N, S-2, N-A* | *BSE-2N, S-4, N-D* |
| *Division of the State Architect - [DSA-SS/CC]* | *I, II* | *BSE-1E, S-3, N-C* | *BSE-2N, S-5, N-D* |
| *Division of the State Architect - [DSA-SS/CC]* | *III* | *BSE-1E, S-3, N-B* | *BSE-2N, S-5, N-D* |
| *Division of the State Architect - [DSA-SS/CC]* | *IV* | *BSE-1E, S-2, N-B* | *BSE-2N, S-4, N-D* |

1. *ASCE 41 provides acceptance criteria (e.g., m, rotation) for Immediate Occupancy (S1), Life Safety (S3), and Collapse Prevention (S5), and specifies in Sections 2.3.1.2.1 and 2.3.1.4.1 the method to interpolate values for S-2 and S-4, respectively. For nonstructural components, N-A corresponds to the Operational level, N-B to the Position Retention, N-C to the Life Safety level, N-D to the Hazards Reduced, and N-E to the Not Considered. When evaluating for the Hazards Reduced Nonstructural Performance Level, the requirements need not be greater than what would be required by ASCE 7 nonstructural provisions for new construction.*
2. *Buildings evaluated and retrofitted to meet the structural and nonstructural requirements for a new building~~, Chapter 16 of~~ as given in the California Building Code~~, in accordance with the exception in Section 319.1,~~ as adopted by DSA or BSC, as applicable, are deemed to meet the seismic performance requirements of this section.*
3. *Buildings complying with the requirements of the exception in Section 319.1 are deemed to meet the seismic performance requirements of this section.*

…

***317.6 Retrofit required.*** *Where the evaluation indicates the building does not meet the required performance objectives of this section, the owner shall take appropriate steps to ensure that the building’s structural system is retrofitted in accordance with the provisions of Section 317. Appropriate steps are either: 1) undertake the seismic retrofit as part of the additions, ~~modifications~~ alterations and/or repairs of the structure; or 2) provide a plan, acceptable to the building official, to complete the seismic retrofit in a timely manner. The relocation or moving of an existing building is considered to be an alteration requiring filing of the plans and specifications approved by the building official.*

***317.7*** *The additions, ~~modification~~ alteration or repair to any existing building are permitted to be prepared in accordance with the structural and nonstructural requirements for a new building~~, Chapter 16 of~~ as given in the California Building Code, applied to the entire building.*

***317.8*** *The requirements of ASCE 41 Chapters 14 and 15 are to apply to the use of seismic isolation and~~/or~~ passive energy systems, respectively, for the repair, voluntary lateral-force-resisting system modification or retrofit of an existing structure. When seismic isolation or passive energy dissipation is used, the project must have project peer review as prescribed in Section 322.*

…

***318.1*** *In addition to the definitions given in Section 202, for the purposes of Sections 317 through 323, certain terms are defined as follows:*

***[DSA-SS & DSA-SS/CC]*** *For the purposes of Section 317 through 323 definitions of terms given in Section 4-208 or 4-314 of the California Administrative Code govern over those in Section 202.*

***~~ADDITION~~*** *~~means any work that increases the floor or roof area or the volume of enclosed space of an existing building, and is structurally attached to the existing building by connections that are required for transmitting vertical or horizontal loads between the addition and the existing structure.~~*

***~~ALTERATION~~*** *~~means any change within or to an existing building, which does not increase and may decrease the floor or roof area or the volume of enclosed space.~~*

***BUILDING OFFICIAL****…* (Relocated to Section 202)

***~~DESIGN~~*** *~~is the procedure that includes both the evaluation and retrofit design of an existing component, element or structural system, and design of a new component, element or structural system.~~*

***ENFORCEMENT AGENCY****…* (Relocated to Section 202)

***~~METHOD A~~*** *~~refers to the procedures prescribed in Section 320.~~*

***~~METHOD B~~*** *~~refers to the procedures allowed in Section 321.~~*

***~~MODIFICATIONS.~~*** *~~For this chapter, modification is taken to include repairs to structures that have been damaged.~~*

***~~N-A, N-B, N-C, N-D, N-E~~*** *~~are seismic nonstructural component performance measures as defined in ASCE 41. N-A corresponds to the highest performance level, and N-D the lowest, while N-E is not considered.~~*

***~~PEER REVIEW~~*** *~~refers to the procedures contained in Section 322.~~*

***~~REPAIR~~*** (Withdrawn)

***~~S-1, S-2, S-3, S-4, S-5, S-6~~*** *~~are seismic structural performance measures as defined in ASCE 41. S-1 corresponds to the highest performance level, and S-5 the lowest, while S-6 is not considered.~~*

***~~SPECIFIC PROCEDURES~~*** *~~are the procedures listed in Section 319.1.1.~~*

***~~STRUCTURAL REPAIRS~~*** *~~are any changes affecting existing or requiring new structural components primarily intended to correct the effects of damage, deterioration or impending or actual failure, regardless of cause.~~*

…

***319.1 Basis for evaluation and design.*** *This section…*

*One of…*

*When Method B…*

***Exceptions:***

1. …
2. ***[DSA-SS & DSA-SS/CC]*** *For ~~public schools and community colleges~~ the conversion of nonconforming buildings to conforming school buildings in accordance with Section 4-307 of the California Administrative Code, nonconforming buildings constructed to the requirements of California Building Code, ~~2013~~ 2016 or later edition, that code as it was adopted by the local jurisdiction is permitted to be used in place of those specified in Section 319.1 provided the building complies with Seismic Design Category D or higher.*

…

***319.2 Existing conditions…*** (Previously-proposed revisions have been withdrawn. Current amendment language continues unchanged.)

…

***319.4 Risk categories.*** *~~For purposes of earthquake-resistant design, e~~Each structure shall be placed in one of the ~~r~~Risk ~~c~~Categories in accordance with the requirements of the California Building Code.*

*…*

***319.7.2*** *When the building is classified as irregular in vertical or horizontal plan. If the evaluation and retrofit is in accordance with Table 317.5 footnote 2 or 3, the building shall be classified by application of ASCE 7, Section 12.3.2. ~~and/or~~ If the evaluation and retrofit is in accordance with ASCE 41, the building shall be classified as irregular when an irregularity defined in ASCE 41, Sections 7.3.1.1.1 to 7.3.1.1.4 exists. ~~unless the~~* (Remainder of the provision relocated to Exception 2 below)

***Exception:*** *Section 319.7.2 does not apply in the following conditions:*

1. *~~If t~~The retrofit design removes the configurational attributes that caused the building to be classified as irregular~~, then Section 319.7.2 does not apply and Method A may be used~~.*
2. (Provision that follows has been relocated from the body of the provision above) *The irregularity is demonstrated not to affect the seismic performance of the building.*

…

***319.10 Structural observation, testing and inspection.*** *Structural~~, geotechnical and construction~~ observation, testing and inspection as used in this section shall mean meeting the requirements of Chapter 17 of the California Building Code, with a minimum allowable level of investigation corresponding to seismic design category (SDC) D. ~~At a minimum the project site will be visited by the responsible design professional to observe existing conditions and to review the construction work for general compliance with approved plans, specifications and applicable structural regulations. Such~~ Structural observation visits shall occur at significant construction stages and at the completion of the structural retrofit. Structural observation shall be provided for all structures. ~~The plan for testing and inspection shall be submitted to the building official for review and approval with the application for permit.~~*

***[DSA-SS, DSA-SS/CC] Additional requirements:*** *For public schools and community colleges, construction material testing, inspection and observation during construction shall also comply with ~~Section 4-333 of~~ the California Administrative Code.*

***~~319.10.1~~*** *~~The registered design professional, or their designee, responsible for the structural design shall be retained to perform structural observation and independently report to the owner of observations and findings as they relate to adherence to the permitted plans and good workmanship.~~*

***~~319.10.2~~*** *~~At the conclusion of construction, the structural observer shall submit to the enforcement agency and the owner a final written statement that the required site visits have been made, that the work, to the best of the structural observers knowledge and belief, is or is not in general conformity to the approved plans and that the observed structural deficiencies have been resolved and/or listing those that, to the best of the structural observers knowledge and belief, have not been satisfactorily corrected.~~*

***319.10~~.2~~.1***(Renumber to coordinate with deletion of parent section.) *The requirement…*

***319.10~~.2~~.2***(Renumber to coordinate with deletion of parent section.) ***Preconstruction meeting.*** …

***319.11 Temporary actions.*** *When compatible with the building use, and the time phasing for both use and the retrofit program, temporary shoring or other structural support is permitted to be considered. Temporary bracing, shoring and prevention of falling hazards are permitted to be used to qualify for ~~Exception~~ Item 1 in Section 319.12 that allows inadequate capability in some existing components, as long as the required performance levels given in Section 317 can be provided by the permanent structure. The consideration for such temporary actions shall be noted in the design documents.*

…

***321.1*** *The existing… If the building’s seismic performance is evaluated as satisfactory and the peer reviewer(s,) and the enforcement agency concurs, then no further structural ~~modifications~~ retrofit and/or repair of the lateral load-resisting system are required. …*

…

***321.2.3*** *Prior to implementation, the procedures, methods, material assumptions and acceptance/rejection criteria proposed by the registered design professional will be peer reviewed as provided in Section 322. Where nonlinear procedures are used, prior to any analysis, the representation of the seismic ground motion shall be reviewed and approved by the peer reviewer(s) and the building official.*

***[DSA-SS, DSA-SS/CC]*** *For public school and community college projects, the representation of the seismic ground motion shall be reviewed and approved by the California Geological Survey.*

…

**Associated Items:** 2, 4

**Notation for [DSA-SS]:**

Authority: Education Code section 17310, 81142, and Health and Safety Code section 16022

Reference(s): Education Code sections 17280 through 17317, 81130 through 81147, and Health and Safety Code sections16000 through 16023

**Notation for [DSA-SS/CC]:**

Authority: Education Code section 81053

Reference(s): Education Code sections 81052, 81053, and 81130 through 81147

## Chapter 4 REPAIRS

**CHAPTER 4**

**REPAIRS**

Same as the previous Code Adoption Cycle, Chapter 4 of the 2021 IEBC are not adopted by DSA-SS and DSA-SS/CC. Prior to the SD/LF Code Advisory Committee DSA had proposed adoption of selected sections of Chapter 4; however, in response to the recommendations of the Code Advisory Committee these proposals have been withdrawn.

**401.1** (Withdrawn)

**401.1.1** (Withdrawn)

**401.2, 401.3, 405.1, 405.2** (Withdrawn)

**405.2.1** (Withdrawn)

**405.2.1.1, 405.2.2, 405.2.3** (Withdrawn)

**405.2.3.1** (Withdrawn)

**405.2.3.2** (Withdrawn)

**405.2.3.3** (Withdrawn)

**405.2.4, 405.2.4.1, 405.2.5, 405.2.6** (Withdrawn)

**Notation for [DSA-SS]:**

Authority: Education Code section 17310, 81142, and Health and Safety Code section 16022

Reference(s): Education Code sections 17280 through 17317, 81130 through 81147, and Health and Safety Code sections16000 through 16023

**Notation for [DSA-SS/CC]:**

Authority: Education Code section 81053

Reference(s): Education Code sections 81052, 81053, and 81130 through 81147

## Chapter 5 PRESCRIPTIVE COMPLIANCE METHOD

**CHAPTER 5**

**PRESCRIPTIVE COMPLIANCE METHOD**

Adopt selected sections of Chapter 5 of the 2021 IEBC as Chapter 5 of the 2022 CEBC same as the previous Code Adoption Cycle. All existing California amendments shall continue without change.

**Notation for [DSA-SS]:**

Authority: Education Code Section 17310 and 81142, and Health and Safety Code Section 16022

Reference(s): Education Code Sections 17280 through 17317, and 81130 through 81147, and Health and Safety Code Sections16000 through 16023

**Notation for [DSA-SS/CC]:**

Authority: Education Code section 81053

Reference(s): Education Code sections 81052, 81053, and 81130 through 81147

## Chapter 6 CLASSIFICATION OF WORK

**Chapter 7 ALTERATIONS – LEVEL 1**

**Chapter 8 ALTERATIONS – LEVEL 2**

**Chapter 9 ALTERATIONS – LEVEL 3**

**Chapter 10 CHANGE OF OCCUPANCY**

**Chapter 11 ADDITIONS**

**Chapter 12 HISTORIC BUILDINGS**

**Chapter 13 PERFORMANCE COMPLIANCE METHODS**

**Chapter 14 RELOCATED OR MOVED BUILDINGS**

**Chapter 15 CONSTRUCTION SAFEGUARDS**

Same as the previous Code Adoption Cycle, Chapters 6 through 15 of the 2021 IEBC are not adopted by DSA-SS and DSA-SS/CC.

**Notation for [DSA-SS]:**

Authority: Education Code section 17310, 81142, and Health and Safety Code section 16022

Reference(s): Education Code sections 17280 through 17317, 81130 through 81147, and Health and Safety Code sections16000 through 16023

**Notation for [DSA-SS/CC]:**

Authority: Education Code section 81053

Reference(s): Education Code sections 81052, 81053, and 81130 through 81147

## Chapter 16 REFERENCE STANDARDS

**CHAPTER 16**

**REFERENCE STANDARDS**

Adopt Chapter 16 of the 2021 IEBC as Chapter 16 of the 2022 CEBC as amended below.

…

**ASCE/SEI**

…

**7—2016: Minimum Design Loads and Associated Criteria for Buildings and Other Structures** with Supplement*s* 1 *and 3*

…

**Notation for [DSA-SS]:**

Authority: Education Code Section 17310, 81142, and Health and Safety Code section 16022

Reference(s): Education Code sections 17280 through 17317, 81130 through 81147, and Health and Safety Code sections16000 through 16023

**Notation for [DSA-SS/CC]:**

Authority: Education Code section 81053

Reference(s): Education Code sections 81052, 81053, and 81130 through 81147

## Appendix A GUIDELINES FOR THE SEISMIC RETROFIT OF EXISTING BUILDINGS

**Appendix B SUPPLEMENTARY ACCESSIBILITY REQUIREMENTS FOR EXISTING BUILDINGS AND FACILITIES**

**Appendix C GUIDELINES FOR THE WIND RETROFIT OF EXISTING BUILDINGS**

**Appendix D BOARD OF APPEALS**

**Resource A GUIDELINES ON FIRE RATINGS OF ARCHAIC MATERIALS AND ASSEMBLIES**

Same as the previous Code Adoption Cycle, Appendices A through D and Resource A of the 2021 IEBC are not adopted by DSA-SS and DSA-SS/CC.

**Notation for [DSA-SS]:**

Authority: Education Code Section 17310, 81142, and Health and Safety Code section 16022

Reference(s): Education Code sections 17280 through 17317, 81130 through 81147, and Health and Safety Code sections16000 through 16023

**Notation for [DSA-SS/CC]:**

Authority: Education Code section 81053

Reference(s): Education Code sections 81052, 81053, and 81130 through 81147