ADDITIONAL 15-DAY EXPRESS TERMS AND RATIONALE
FOR PROPOSED BUILDING STANDARDS
OF THE DIVISION OF THE STATE ARCHITECT (DSA-SS AND DSA-SS/CC)
REGARDING THE 2022 CALIFORNIA BUILDING CODE,

CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2

# (DSA-SS/CC 05/21)

No state agency may adopt, amend, or repeal a regulation which has been changed from that which was originally made available to the public pursuant to Section 11346.5, unless the change is (1) nonsubstantial or solely grammatical in nature, or (2) sufficiently related to the original text that the public was adequately placed on notice that the change could result from the originally proposed regulatory action. If a sufficiently related change is made, the full text of the resulting adoption, amendment, or repeal, with the change clearly indicated, shall be made available to the public for at least 15 or 45 days before the agency adopts, amends, or repeals the resulting regulation.

Any written comments received regarding the change must be responded to in the final statement of reasons required by Section 11346.9 (Government Code Section 11346.8(c)).

If using assistive technology, please adjust your settings to recognize underline, strikeout, double strikeout, italics and ellipsis. Double underline will be indicated by parenthetical notes within the text. The notes will not be codified or published in the code.

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

* Model Code language appears upright.
* Unmodified California 45-day amendments appear in *underline and italic* and *~~strikeout and italic~~.*
* California additional 15-day amendments appear in *double underline and italic* and *double strikeout and italic*.
* 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 or *italic text with highlight*.
* **Rationale**: The justification for the change is shown after each section or series of related changes.

# ADDITIONAL 15-DAY EXPRESS TERMS

# Item 8Chapter 18A SOILS AND FOUNDATIONS, Section *1812A EARTH RETAINING SHORING.*

…

***1812A.7 Monitoring of existing*** (begin double strikeout)***DSA-SS, DSA-SS/CC, and OSHPD 1 and 4***(end double strikeout)***structures.***

1. *The contractor shall complete a written and photographic log of all existing* (begin double strikeout)*DSA-SS, DSA-SS/CC, and OSHPD 1 & 4*(end double strikeout)*structures within 100 ft or three times depth of shoring, prior to construction. A licensed surveyor shall document all existing substantial cracks in adjacent existing structures.*

*…*

**Rationale:** Chapter 18A is co-adopted by OSHPD and DSA and Section 1812A consists entirely of co-adopted amendments. OSHPD proposes in their Express Terms to strike the identifying text “DSA-SS, DSA-SS/CC, and OSHPD 1 and 4” where it occurs in the title and item #1 of sub-section 1812A.7. This change was not included in the DSA 45-Day Express Terms; however, DSA intends to maintain alignment with OSHPD in these regulations. As such, DSA proposes to strike the identifying text to match the Express Terms document authored by OSHPD.

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

Authority: Education Code sections 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 sections 16000 through 16023.

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

Authority: Education Code section 81053

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

# Item 10Chapter 19A CONCRETE, Section 1901*A* GENERAL*.*

…

**1901*A*.2** (begin double strikeout)**Plain and r**(end double strikeout)***R*einforced concrete.** Structural concrete shall be designed and constructed in accordance with the requirements of this chapter and ACI 318 as amended in Section 1905*A* of this code*,* (begin double underline)*except that plain concrete is not permitted*(end double underline). Except for the provisions of Sections 1904*A* and 1907*A*, the design and construction of slabs on grade shall not be governed by this chapter unless they transmit vertical loads or lateral forces from other parts of the structure to the soil.

**…**

**Rationale:** Chapter 19A is co-adopted by OSHPD and DSA. The model code (2021 International Building Code) has revised the title of Section 1906 from “STRUCTURAL PLAIN CONCRETE” to “FOOTINGS FOR LIGHT-FRAME CONSTRUCTION”. DSA and OSHPD have co-adopted a prior and continuing amendment in Section 1906A, which replaces the model code content with the following: “Not permitted by OSHPD and DSA-SS”. Because of the change made to the title of this section by the model code, OSHPD has determined further clarification is needed in the code to communicate that plain concrete is not permitted. To provide this clarification, OSHPD proposes in their Express Terms the following revisions to Section 1901A.2: (1) strike the text “Plain and” from the section title and (2) add the text “except that plain concrete is not permitted” to the end of the first sentence.

This change is not included in the DSA 45-Day Express Terms; however, DSA intends to maintain alignment with OSHPD in these regulations for the clarifying benefit of the OSHPD proposal. Additionally, adding an OSHPD banner to the proposed changes will create the mistaken impression that DSA now permits plain concrete, which is untrue based on continued amendments. As such, DSA proposes to revise Section 1901A.2 to match the Express Terms document authored by OSHPD.

**Notation:**

Authority: Education Code sections 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 sections 16000 through 16023.

# Item 12CHAPTER 21MASONRY, Section 2115 ADDITIONAL REQUIREMENTS FOR COMMUNITY COLLEGES [DSA-SS/CC]

**…**

***2115.5*** (begin double underline)***Reinforced***(end double underline) ***Grouted Masonry***

(begin double strikeout)***2115.5.1 General conditions****. Prior to grouting, the grout space shall be clean so that all spaces to be filled with grout do not contain mortar projections*(end double strikeout) *(Relocate to 2115.5.1; TMS 602 3.3 B.2.c) greater than 1/4 inch (6.4 mm)* (begin double strikeout)*, mortar droppings and other foreign material.* (end double strikeout)

*(Relocate to 2115.5.5; TMS 602 3.5 B.2) All cells shall be solidly filled with grout.*

***Exception:*** *Reinforced hollow-unit masonry laid in running bond used for freestanding site walls or interior nonbearing non-shear wall partitions may be grouted only in cells containing vertical and horizontal reinforcement.*

*(Relocate to 2115.5.2; TMS 602 3.4 B.1) Reinforcement and embedded items shall be clean, properly positioned and securely anchored against moving prior to grouting. (Relocate to 2115.5.3; TMS 602 3.4 D.3 and D.6 (Bolts)) Bolts shall be accurately set with templates or by approved equivalent means and held in place to prevent dislocation during grouting. (Relocate to 2115.5.2; TMS 602 3.4 B.3 (Reinforcement) and 2115.5.3; TMS 602 3.4 D.3 and D.6 (Bolts)) Reinforcement, embedded items and bolts shall be solidly embedded in grout. (Relocate to 2115.5.3; TMS 602 3.4 D.3 and D.6 (Bolts)) Anchor bolts in the face shells of hollow masonry units shall be positioned to maintain a minimum of 1/2 inch of grout between the bolt and the face shell.*

*(Relocate to 2115.5.4; TMS 602 3.5 A.3) The grouting of any section of wall shall be completed in one day with no interruptions greater than one hour.* (begin double strikeout)*At the time of laying, all masonry units shall be free of dust and dirt.*

*Grout pours greater than 12 inches (300 mm) in height shall be consolidated by mechanical vibration during placement to fill the grout space* (end double strikeout) *(Relocate to 2115.5.6; TMS 602 3.5 E.1.b) before loss of plasticity*(begin double strikeout)*, and reconsolidated by mechanical vibration to minimize voids due to water loss. Grout pours less than 12 inches in height may be puddled.*(end double strikeout)

*(Relocate to 2115.5.7; TMS 602 3.5 F.1) Between grout pours or where grouting has been stopped more than an hour, a horizontal construction joint shall be formed by stopping all wythes at the same elevation and with the grout stopping a minimum of 11/2 inches (38 mm) below a mortar joint, except at the top of the wall. Where bond beams occur, the grout pour shall be stopped a minimum of 1/2 inch (12.7 mm) below the top of the masonry.*

(begin double strikeout)*The construction documents shall completely describe grouting procedures, subject to approval of DSA.* (end double strikeout)

***2115.5.1*** (begin double underline)***TMS 602, Article 3.3 B Placing Mortar and Units.***  *Modify TMS 602 Article 3.3 B.2.c**as follows:*(end double underline)

Remove masonry protrusions extending (Relocated from Section 2115.5.1) *greater than* *¼*(begin double strikeout)½(end double strikeout)in. ((begin double strikeout)12.7(end double strikeout) (begin double underline)*6.4* (end double underline)mm) (begin double strikeout)or more(end double strikeout) into cells or cavities to be grouted.

(begin double underline)***2115.5.2 TMS 602, Article 3.4 B Reinforcement.***  *Modify TMS 602 Article 3.4 B.1 and Article 3.4 B.3**as follows:*(end double underline)

1. Support reinforcement to prevent displacement caused by construction loads or by placement of grout or mortar, beyond the allowable tolerances. (Relocated from Section 2115.5.1) *Reinforcement and embedded items shall be clean, properly positioned and securely anchored against movement prior to grouting.*

***…***

1. Maintain a clear distance between reinforcing bars and the interior of masonry unit or formed surface of at least 1/4 in. (6.4 mm) for fine grout and 1/2 in. (12.7 mm) for coarse grout, except where cross webs of hollow units are used as supports for horizontal reinforcement. (Relocated from Section 2115.5.1) *Reinforcement and embedded items shall be solidly embedded in grout.*

***…***

(begin double underline)***2115.5.3 TMS 602, Article 3.4 D Anchor Bolts.***  *Replace TMS 602 Article 3.4 D.3 and add Articles 3.4 D.5 and 3.4D.6 as follows:*(end double underline)

***…***

Relocated from Section 211.5.5.1) *Anchor bolts in the* (begin double underline)*wythe or*(end double underline) *face shells of hollow masonry units shall be positioned to maintain a minimum of ½ in. of grout between the bolt* (begin double underline) *circumference, the wythe or*(end double underline) (begin double strikeout)*and*(end double strikeout) *the face shell.* (begin double underline)*For the portion of the bolt that is within the grouted cell, maintain a clear distance between the bolt and the face of masonry unit and between the head of the bolt and the formed surface of grout of at least 1/4 in. (6.4 mm) when using fine grout and at least 1/2 in. (12.7 mm) when using coarse grout.*(end double underline)(Relocated from Section 2115.5.1) *Bolts shall be solidly embedded in grout.*

***…***

1. (Relocated from Section 2115.9.1.3) *Bent bar anchor bolts shall not be allowed. The maximum size anchor shall be 1/2-inch (13 mm) diameter for 6-inch (152 mm) nominal masonry, 3/4-inch (19 mm) diameter for 8-inch (203 mm) nominal masonry, 7/8-inch (22 mm) diameter for 10-inch (254 mm) nominal masonry, and 1-inch (25mm) diameter for 12-inch (304.8 mm) nominal masonry.*
2. (Relocated from Section 2115.5.1) *Bolts shall be accurately set with templates or by approved equivalent means and held in place to prevent dislocation during grouting.*

(begin double underline)***2115.5.4 TMS 602, Article 3.5 A Placing time*** *Modify TMS 602, Article 3.5 A by adding Article 3.5 A.3 as follows:*(end double underline)

***…***

*3.* (Relocated from Section 2115.5.1) *The grouting of any section of* (begin double underline)*a*(end double underline) *wall* (begin double underline)*between control barriers*(end double underline) *shall be completed in one day with no interruptions greater than one hour.*

(begin double underline)***2115.5.5 TMS 602, Article 3.5 B Confinement.***  *Add the following to TMS 602, Article 3.5 B:*(end double underline)

*2.* (Relocated from Section 2115.5.1) *All cells shall be solidly filled with grout* (begin double underline)*in reinforced hollow unit masonry*(end double underline)*. (Reserved for OSHPD 1 &4)*

***Exception:***(Relocated from Section 2115.5.1) *Reinforced hollow-unit masonry laid in running bond for freestanding site walls or interior nonbearing non-shear wall partitions may be grouted only in cells containing vertical and horizontal reinforcement.*

(begin double underline)***2115.5.6 TMS 602, Article 3.5 E Consolidation.***  *Modify TMS 602, Article 3.5 E.1.b**as follows:*(end double underline)

***…***

1. Consolidate pours exceeding 12 in. (305 mm) in height by mechanical vibration, and reconsolidate by mechanical vibration after initial water loss and settlement has occurred~~.~~*,* (Relocated from Section 2115.5.1) *but before plasticity is lost*.

(begin double underline)***2115.5.7 TMS 602, Article 3.5 F.1 Grout key.*** *Replace TMS 602, Article 3.5 F.1**as follows:* (end double underline)

(Relocated from Section 2115.5.1) *Between grout pours or where grouting has been stopped more than an hour, a horizontal construction joint shall be formed by* (begin double strikeout)*stopping all wythes at the same elevation and with the grout stopping terminating grout*(end double strikeout) *a minimum of 1-1/2 inches (38 mm) below a mortar joint, except at the top of the wall. Where bond beams occur, the grout pour shall be* (begin double strikeout)*stopped*(end double strikeout)(begin double underline)*terminated* (end double underline)*a minimum of 1/2 inch (12.7 mm) below the* (begin double strikeout)*top of the masonry*(end double strikeout) (begin double underline) *mortar joint.*(end double underline)

***2115.6*** (begin double strikeout)***Aluminum equipment***(end double strikeout)(begin double underline)***TMS 602, Article 3.5 Grout placement.***  *Add the following to TMS 602, Article 3.5:*

***3.5 I.*** *Additional Grouting Requirements:*

1. *Grout shall be placed by pumping or an approved alternate method before initial set of hardening occurs.*
2. *Grout shall be placed so that all spaces to be grouted do not contain voids.*
3. *The grout placing time limitation of 1-1/2 hours given in TMS 602 Article 3.5 A shall not be exceeded without a retarding admixture in the grout sufficient to extend workability of the grout for the needed time period.*(end double underline)
4. *Grout shall not be handled nor pumped utilizing aluminum equipment unless it can be demonstrated with the materials and equipment to be used that there will be no deleterious effect on the strength of the grout.*

***…***

***2115.7*** (begin double strikeout)***Specified c***(end double strikeout)***Compressive strength, f’m.*** *The* (begin double underline)*minimum*(end double underline) *specified compressive strength, f'm,* (begin double strikeout)*assumed*(end double strikeout) *in* (begin double underline)*the*(end double underline) *design shall be* (begin double strikeout)*2000*(end double strikeout)(begin double underline)*1500*(end double underline) *psi (*(begin double strikeout)*13.79*(end double strikeout) (begin double underline)*10.34*(end double underline) *MPa) for all* (begin double underline)*structural*(end double underline) *masonry construction using materials and details of construction required herein.* (begin double underline)*The value of f’m used to determine nominal strength value in this chapter shall not*(end double underline) (begin double strikeout)*In no case shall the f 'm assumed in design*(end double strikeout) *exceed 3,000 psi (20.7 MPa)* (begin double underline)*for concrete masonry and shall not exceed 4,500 psi (31.03 MPa) for clay masonry.*(end double underline)

**…**

***2115.8.2******Masonry core testing****.**(Proposal to change 2000 to 1500 in Exception 1 is withdrawn)*

***…***

***2115.9 Modifications to TMS 402.***

* + 1. (begin double strikeout)*Modify TMS 402, Section 7.4.4 as follows:*
1. (end double strikeout) (Relocate to 2115.9.2; TMS 402 7.4.4.1)***Minimum reinforcement requirements for masonry walls.*** *The total area of reinforcement in reinforced masonry walls shall not be less than 0.003 times the sectional area of the wall. Neither the horizontal nor the vertical reinforcement shall be less than one third of the total. Horizontal and vertical reinforcement shall be spaced at not more than 24 inches (610 mm) center to center.*

***Exception:*** *Reinforced hollow-unit masonry used for freestanding site walls or interior nonbearing nonshear wall partitions shall have horizontal reinforcing spaced not more than 4 feet on center, except as required by TMS 402 Section 7.4.5 when applicable.*

(Relocate to 2115.9.2; TMS 402 7.4.4.1.1) *The minimum reinforcing shall be No. 4, except that No. 3 bars may be used for ties and stirrups. Vertical wall reinforcement shall have dowels of equal size and equal matched spacing in all footings. Reinforcement shall be continuous around wall corners and through intersections. Only reinforcement which is continuous in the wall shall be considered in computing the minimum area of reinforcement. Reinforcement with splices conforming to TMS 402 shall be considered as continuous reinforcement.*

(Relocate to 2215.9.2; TMS 402 7.4.4.1.2) *Horizontal reinforcing bars in bond beams shall be provided in the top of footings, at the top of wall openings, at roof and floor levels, and at the top of parapet walls. For walls 12 inches (nominal) (305 mm) or more in thickness, horizontal and vertical reinforcement shall be equally divided into two layers, except where designed as retaining walls. Where reinforcement is added above the minimum requirements, such additional reinforcement need not be so divided.*

(Relocate to 2115.9.2; TMS 402 7.4.4.1.3) *In bearing walls of every type of reinforced masonry, there shall be trim reinforcement of not less than one No. 5 bar or two No. 4 bars on all sides of, and adjacent to, every opening which exceeds 16 inches (406 mm) in either direction, and such bars shall extend not less than 48 diameters, but in no case less than 24 inches (610 mm) beyond the corners of the opening. The bars required by this paragraph shall be in addition to the minimum reinforcement elsewhere required.*

(Relocate to 2115.9.2; TMS 402 7.4.4.1.4) *When the reinforcement in bearing walls is designed, placed and anchored in position as for columns, the allowable stresses shall be as for columns.*

(Relocate to 2115.9.2; TMS 402 7.4.4.1.5) *Joint reinforcement shall not be used as principal reinforcement in masonry.* (begin double strikeout)

1. ***Minimum reinforcement for masonry columns.***(end double strikeout) (Relocate to 2115.9.1; TMS 402 5.3.1.4(b)) *The spacing of column ties shall be as follows: not greater than 8 bar diameters, 24 tie diameters, or one half the least dimension of the column for the full column height.*

(Relocate to 2115.9.1; TMS 402 5.3.1.4(a)) Ties *shall be at least 3/8 inch (10 mm) in diameter and shall be embedded in grout. Top tie shall be within 2 inches (51 mm) of the top of the column or of the bottom of the horizontal bar in the supported beam.* (begin double strikeout)

1. ***Anchor bolts.****(end double strikeout) (*Relocate to 2115.5.3; TMS 602 3.4 D.5) *Bent bar anchor bolts shall not be allowed. The maximum size anchor shall be 1/2-inch (13 mm) diameter for 6-inch (152 mm) nominal masonry, 3/4-inch (19 mm) diameter for 8-inch (203 mm) nominal masonry, 7/8-inch (22 mm) diameter for 10-inch (254 mm) nominal masonry, and 1-inch (25 mm) diameter for 12-inch (304.8 mm) nominal masonry.*

***2115.9.1*** (begin double underline)***TMS 402 Sections 5.3.1.4(a) and 5.3.1.4(b).*** *Replace**TMS 402 Sections 5.3.1.4(a) and 5.3.1.4(b) as follows:*(end double underline)

(a)(Relocated from Section 2115.9.1.2) *Ties shall be at least 3/8” in diameter and shall be embedded in grout. Top tie shall be within 2 inches (51 mm) of the top of the column or of the bottom of the horizontal bar in the supported beam.*

(b)(Relocated from Section 2115.9.1.2) *The spacing of column ties shall be as follows: not greater than 8 bar diameters, 24 tie diameters, or one half the least dimension of the column,* (begin double underline)*or 8 inches (203 mm)*(end double underline) *for the full column height.*

(begin double underline)***2115.9.2 2106A.1.3 TMS 402 Sections 7.4.4.1, and 7.4.5.1.*** *Replace TMS 402 Section 7.4.4.1 as follows and delete Section 7.4.5.1:*(end double underline)

***7.4.4.1*** (Relocated from Section 2115.9.1.1) ***Minimum reinforcement requirements for Masonry Walls.*** *The total area of reinforcement in reinforced masonry walls shall not be less than 0.003 times the sectional area of the wall. Neither the horizontal nor the vertical reinforcement shall be less than one third of the total. Horizontal and vertical reinforcement shall be spaced at not more than 24 inches (610 mm) center to center.*

***Exception:*** *Reinforced hollow-unit masonry used for freestanding site walls or interior non-bearing non-shear wall partitions shall have horizontal reinforcing spaced not more than 4’-0” on center, except* (begin double underline*)for locations in Seismic Design Category F*(end double underline)(begin double strikethrough)*as required by TMS 402 Section 7.4.5 when applicable.*(end double strikethrough)

***7.4.4.1.1*** (Relocated from Section 2115.9.1.1) *The minimum reinforcing shall be No. 4, except that No. 3 bars may be used for ties and stirrups. Vertical wall reinforcement shall have dowels of equal size and equal matched spacing in all footings. Reinforcement shall be continuous around wall corners and through intersections. Only reinforcement which is continuous in the wall shall be considered in computing the minimum area of reinforcement. Reinforcement with splices conforming to TMS 402 shall be considered as continuous reinforcement.*

***7.4.4.1.2*** (Relocated from Section 2115.9.1.1) *Horizontal reinforcing bars in bond beams shall be provided in the top of footings, at the top of wall openings, at roof and floor levels, and at the top of parapet walls. For walls 12 inches (nominal) (305 mm) or more in thickness, horizontal and vertical reinforcement shall be equally divided into two layers, except where designed as retaining walls. Where reinforcement is added above the minimum requirements, such additional reinforcement need not be so divided.*

***7.4.4.1.3*** (Relocated from Section 2115.9.1.1) *In bearing walls of every type of reinforced masonry, there shall be trim reinforcement of not less than one No. 5 bar or two No. 4 bars on all sides of, and adjacent to, every opening which exceeds 16 inches (406 mm) in either direction, and such bars shall extend not less than 48 diameters, but in no case less than 24 inches (610 mm) beyond the corners of the opening. The bars required by this paragraph shall be in addition to the minimum reinforcement elsewhere required.*

***7.4.4.1.4*** (Relocated from Section 2115.9.1.1) *When the reinforcement in bearing walls is designed, placed and anchored in position as for columns, the allowable stresses shall be as for columns.*

***7.4.4.1.5*** (Relocated from Section 2115.9.1.1) *Joint reinforcement shall not be used as principal reinforcement in masonry.*

…

**Rationale:**

DSA and OSHPD proposals for adjustments to Chapter 21 and 21A amendments that were included in the 45-Day Express Terms were prepared in response to public comment from the Masonry Institute of America (MIA) and Concrete Masonry Association of California and Nevada (CMACN) to provide better clarity and alignment with TMS 402/602.

Section 2115 contains alternative provisions for Community Colleges [DSA-SS/CC]. The language in the current 2019 CBC [DSA-SS/CC] provisions in 2115.5-2115.6, 2115.7 and 2115.9 parallels the [DSA-SS] provisions in 2104A.3, 2105A.2 and 2106A.1, respectively.

Proposed adjustments to the language in 2115.5-2115.6, 2115.7 and 2115.9 were not included in the DSA 45-Day Express Terms; however, for consistency, DSA intends to maintain alignment of the [DSA-SS/CC] provisions in 2115.5-2115.6, 2115.7 and 2115.9 with the [DSA-SS] provisions in 2104A.3, 2105A.2 and 2106A.1, respectively.

Therefore, this 15-Day Express Terms includes DSA’s proposed adjustments to the language in 2115.5-2115.6, 2115.7 and 2115.9, in order to align with what DSA and OSHPD are proposing for 2104A.3, 2105A.2 and 2106A.1 [DSA-SS, OSHPD 1 & 4] and what OSHPD is proposing for 2104.3, 2105.2 and 2106.1 [OSHPD 1R, 2 & 5].

These 15-Day Express Terms also include withdrawal of a proposed modification to 2115.8.2 Exception 1. The existing amendment will continue unchanged. See also rationale for item 13 below.

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

Authority: Education Code section 81053

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

# Item 13CHAPTER 21*A* MASONRY, Section 2105A QUALITY ASSURANCE

…

***2105A.2 Compressive strength, f’m.*** *The minimum specified compressive strength, f'm, ~~assumed~~ in the design shall be ~~2000~~ 1500 psi (~~13.79~~10.34 MPa) for all structural masonry construction using materials and details of construction required herein. Testing of ~~the constructed~~ masonry shall be provided in accordance with* (begin double strikeout)Section(end double strikeout) *~~2105A.5 or Section 2105A.6.~~ TMS 602, Article 1.4 B.*

***Exception:*** *~~Subject to the approval of the enforcement agency, h~~*(begin double strikeout)*Higher*(end double strikeout) *(begin double underline)Where higher*(end double underline)*values of f'm* (begin double underline)*greater than 2000 psi (13.79 MPa) are*(end double underline) (begin double strikeout)*may be*(end double strikeout) *used in the design of reinforced grouted multi-wythe masonry and reinforced hollow-unit masonry~~. The approval shall be~~ (begin double underline)they shall be(end double underline) based on prism test results in accordance with TMS 602 Article 1.4 B.3 submitted by the architect or engineer to the enforcement agency which demonstrate the ability of the proposed construction to meet prescribed performance criteria for strength ~~and stiffness~~. ~~The design shall take into account the mortar joint depth. In no case shall the f'~~~~m~~ ~~assumed in design~~* (Relocated to Sections 2107A.6 and 2108A.4) *exceed 3,000 psi (20.7MPa).*

*~~Where an f'~~~~m~~ ~~greater than 2000 psi (13.79MPa) is approved, t~~The architect or structural engineer shall establish a method of quality control of the masonry construction acceptable to the enforcement agency which shall be described in the contract ~~specifications~~ documents. Verification of c~~C~~ompliance with the requirements for the specified strength of ~~constructed~~ masonry during construction shall be provided using prism test method in accordance with ~~Section 2105A.5~~ TMS 602 Article 1.4 B.3. ~~Substantiation for~~Verification of compliance with the specified compressive strength prior to the start of construction shall be obtained by using prism test method ~~in Section 2105A.5 and Section 2105A.3~~ in accordance with TMS 602 Article 1.4 B.3.*

***…***

***2105A.4******Masonry core testing****.**(Proposal to change 2000 to 1500 in Exception 1 is withdrawn)*

**…**

**Rationale:**

During 45-Day Public Comment, it was determined that reducing the minimum design compressive strength from 2000 psi to 1500 psi to match the TMS 402/602 requirements simultaneously reduced the limit above which masonry prism testing is required. This is a change from the requirements in the 2019 CBC. This revision aligns the testing requirement with the existing amendment in the 2019 CBC.

The word “Section” is deleted as it refers to a previous section that is a proposed deletion, editorial change.

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

Authority: Education Code sections 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 sections 16000 through 16023.

# Item 23Chapter 35 REFERENCED STANDARDS

…

| **Standard Reference Number** | **Title** | **Referenced in Code Section Number** |
| --- | --- | --- |
| **AAMA** | **American Architectural Manufacturing Association****1827 Waldon Office Square, Suite 550****Schaumburg, IL 60173** |  |
| **…** |  |  |
| ***501.4-***(begin double underline)***18***(end double underline) (begin double strikethrough)***09***(end double strikethrough) | ***Recommended Static Test Method for Evaluating Curtain Wall and Storefront Systems Subjected to Seismic and Wind Induced Interstory Drifts*** | *2410.1* |
| ***501.6-***(begin double underline)***18***(end double underline) (begin double strikethrough)***09***(end double strikethrough) | ***Recommended Dynamic Test Method For Determining The Seismic Drift Causing Glass Fallout From A Wall*** | *2410.1* |
| **…** |  |  |
| **ACI** | **American Concrete Institute****38800 Country Club Drive****Farmington Hills, MI 48331** |  |
| **…** |  |  |
| ***355.4—***(begin double underline)***19***(end double underline) (begin double strikethrough)***11***(end double strikethrough) | *Qualification of Post-Installed Adhesive Anchors in Concrete and Commentary* | *1617A.1.19* |
| **…** |  |  |
| **ICC** | **International Code Council, Inc.****500 New Jersey Ave NW****6th Floor****Washington, DC 20001** |  |
| **…** |  |  |
| ***ICC-ES AC01─***(begin double underline)***21***(end double underline) (begin double strikethrough)***18***(end double strikethrough) | ***Acceptance criteria for expansion anchors in Masonry elements*** | *1617A.1.19* |
| ***ICC-ES AC58─***(begin double underline)***21***(end double underline) (begin double strikethrough)***18***(end double strikethrough) | ***Acceptance criteria for Adhesive anchors in Masonry elements*** | *1617A.1.19* |
| ***ICC-ES AC70─***(begin double underline)***21***(end double underline) (begin double strikethrough)***18***(end double strikethrough) | ***Acceptance criteria for fasteners power-driven into Concrete, Steel and Masonry elements***  | *1617A.1.20* |
| ***…*** |  |  |
| ***ICC-ES AC106─***(begin double underline)***21***(end double underline) (begin double strikethrough)***18***(end double strikethrough) | ***Acceptance criteria for predrilled fasteners (screw anchors) in Masonry***  | *1617A.1.19* |
| ***…*** |  |  |
| ***ICC-ES AC193─***(begin double underline)***21***(end double underline) (begin double strikethrough)***18***(end double strikethrough) | ***Acceptance criteria for mechanical anchors in Concrete elements***  | *1617A.1.19* |
| ***ICC-ES AC232─***(begin double underline)***21***(end double underline) (begin double strikethrough)***18***(end double strikethrough) | ***Acceptance criteria for anchor channels in Concrete elements***  | *1617A.1.19* |
| ***ICC-ES AC308─***(begin double underline)***21***(end double underline) (begin double strikethrough)***18***(end double strikethrough) | ***Acceptance criteria for post-installed adhesive anchors in Concrete elements***  | *1617A.1.19*  |
| **…** |  |  |
| ***ICC-ES AC446─***(begin double underline)***21***(end double underline) (begin double strikethrough)***18***(end double strikethrough) | ***Acceptance criteria for headed cast-in specialty inserts in Concrete***  | *1617A.1.19* |
| **…** |  |  |

**Rationale:** Chapter 35 contains a comprehensive list of all standards that are referenced in this code. OSHPD is proposing to adopt newer editions for several reference standards in Chapter 35 that do not align with DSA. This change was not included in the DSA 45-Day Express Terms; however, DSA intends to maintain alignment with OSHPD in these regulations to adopt the latest standard. As such, DSA proposes to adopt the same editions to match the Express Terms document authored by OSHPD.

**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