

14.2.2.3 Scope

Modify Section 21.1.1.3 to read as follows:

21.1.1.3 All members shall satisfy requirements of Chapters 1 to 19 and 22. Structures assigned to SDC B, C, D, E, or F also shall satisfy 21.1.1.4 through 21.1.1.8, as applicable, *except as modified by the requirements of Chapters 14 and 15 of this standard.*

14.2.2.4 Intermediate Precast Structural Walls

Modify Section 21.4 by renumbering Section 21.4.3 to Section 21.4.4 and adding new Sections 21.4.3, 21.4.5, and 21.4.6 to read as follows:

21.4.3 *Connections that are designed to yield shall be capable of maintaining 80 percent of their design strength at the deformation induced by design displacement, or shall use type 2 mechanical splices.*

21.4.4 *Elements of the connection that are not designed to yield shall develop at least 1.5 S_y.*

21.4.5 *Wall piers in structures assigned to SDC D, E, or F shall comply with Section 14.2.2.4 of this standard.*

21.4.6 *Wall piers not designed as part of a moment frame in SDC C shall have transverse reinforcement designed to resist the shear forces determined from Section 21.3.3. Spacing of transverse reinforcement shall not exceed 8 in. Transverse reinforcement shall be extended beyond the pier clear height for at least 12 in.*

EXCEPTIONS: *The preceding requirement need not apply in the following situations:*

1. *Wall piers that satisfy Section 21.13.*
2. *Wall piers along a wall line within a story where other shear wall segments provide lateral support to the wall piers and such segments have a total stiffness of at least six times the sum of the stiffnesses of all the wall piers.*

Wall segments with a horizontal length-to-thickness ratio less than 2.5 shall be designed as columns.

14.2.2.5 Wall Piers and Wall Segments

Modify Section 21.9 by adding a new Section 21.9.10 to read as follows:

21.9.10 Wall Piers and Wall Segments.

21.9.10.1 *Wall piers not designed as a part of a special moment-resisting frame shall have transverse reinforcement designed to satisfy the requirements in Section 21.9.10.2.*

EXCEPTIONS:

1. *Wall piers that satisfy Section 21.13.*
2. *Wall piers along a wall line within a story where other shear wall segments provide lateral support*

to the wall piers, and such segments have a total stiffness of at least six times the sum of the in-plane stiffnesses of all the wall piers.

21.9.10.2 *Transverse reinforcement with seismic hooks at both ends shall be designed to resist the shear forces determined from Section 21.6.5.1. Spacing of transverse reinforcement shall not exceed 6 in. (152 mm). Transverse reinforcement shall be extended beyond the pier clear height for at least 12 in. (304 mm).*

21.9.10.3 *Wall segments with a horizontal length-to-thickness ratio less than 2.5 shall be designed as columns.*

14.2.2.6 Special Precast Structural Walls

Modify Section 21.10.2 to read as follows:

21.10.2 *Special structural walls constructed using precast concrete shall satisfy all requirements of Section 21.9 in addition to Section 21.4 as modified by Section 14.2.2.*

14.2.2.7 Foundations

Modify Section 21.12.1.1 to read as follows:

21.12.1.1 *Foundations resisting earthquake-induced forces or transferring earthquake-induced forces between structure and ground in structures assigned to SDC D, E, or F shall comply with requirements of Section 21.12 and other applicable code provisions unless modified by Sections 12.1.5, 12.13, or 14.2 of ASCE 7.*

14.2.2.8 Detailed Plain Concrete Shear Walls

Modify Section 22.6 by adding a new Section 22.6.7 to read

22.6.7 Detailed Plain Concrete Shear Walls.

22.6.7.1 *Detailed plain concrete shear walls are walls conforming to the requirements for ordinary plain concrete shear walls and Section 22.6.7.2.*

22.6.7.2 *Reinforcement shall be provided as follows:*

- a. *Vertical reinforcement of at least 0.20 in.² (129 mm²) in cross-sectional area shall be provided continuously from support to support at each corner, at each side of each opening, and at the ends of walls. The continuous vertical bar required beside an opening is permitted to substitute for the No. 5 bar required by Section 22.6.6.5.*
- b. *Horizontal reinforcement at least 0.20 in.² (129 mm²) in cross-sectional area shall be provided:*
 1. *Continuously at structurally connected roof and floor levels and at the top of walls.*