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Amend Section 1716.2 to read:

§1716.2. Wood and Light Gage Steel Frame Construction, Residential/Light Commercial.

(a) Scope and Application.

This section applies to work directly associated with the framing of new buildings or structures using the operations, methods, and procedures associated with residential -type framing activities, i.e., joists or trusses resting on stud walls.

(b) Definitions.

(1) Bottom Plate. The bottom horizontal member of a frame wall. Sometimes called the "sole plate."

(2) Eaves. The lowest edge of a sloped roof.

(3) Fascia Board. The exterior trim board at the perimeter of the roof.

(4) Joist. One of a series of parallel beams used to create a structural support system for a floor deck or flat roof, onto which sheathing is fastened.

(5) Nominal Size. For purposes of this section, the commercial size designation of a standard width and depth of standard sawn lumber and glue laminated lumber grades; larger than the standard actual net size of the finished, dressed lumber. An approximate rough-cut dimension assigned to a piece of material as a convenience in referencing to the piece, such as "2 x 4".

(6) Rafter. One of a series of structural members of a roof designed to support roof loads. A framing member that runs up and down the slope of a pitched roof. The beams that slope from the ridge of a roof to the eaves and make-up the main body of the roof's framework. The rafters of a flat roof are sometimes called roof joists.

(7) Residential-type Framing Activities- For the purposes of this section, residential-type framing activities include: installation of floor joists, floor sheathing, layout and installation of walls, hanging and nailing of shear panels, setting and bracing roof trusses and rafters, installation of starter board, roof sheathing, and fascia board; installation of windows, siding and exterior trim. The limited use of structural steel in a predominantly wood-framed home, such as steel I-beam to help support wood framing does not disqualify a structure from being considered residential construction.

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Amend Section 1716.2 to read (continued):

(8) Roof Slope. For the purposes of this section, the incline angle of a roof surface, given as a ratio of the vertical rise to the horizontal run. A 7:12 roof has 7 feet of vertical rise for 12 feet of horizontal run.

(9) Sheathing. The structural panel covering fastened onto studs, floor joists, and/or rafters/trusses.

(10) Slide Guards. A 2-inch nominal cleat, on centers not to exceed 4 feet, securely fastened to the roof sheathing to provide footing on a sloped roof.

(11) Starter Board. The board-type sheathing material installed at eaves and gable ends in the plane of the sheathing and visible from the underside.

(12) Stud. A vertical framing member in walls and partitions, also referred to as a wall stud, attached to the horizontal sole plate below and the top plate above.

(13) Top Plate. Top horizontal member of a frame wall supporting ceiling joists, rafters, or other structural members.

(14) Truss. Prefabricated structural roof unit consisting of triangular bracing (truss webs) between the ceiling joist (bottom chord) and the roof rafter (top chord) commonly installed parallel with other trusses to create a structural support system for a roof after which sheathing is fastened. The bottom chord often serves as a ceiling joist. Each member is usually subjected to longitudinal stress only, either tension or compression.

(15) Truss Support Plate. A temporary support structure erected near mid-span of an area with a large open span, such as a garage, to support trusses during installation.

(c) Raising Walls.

(1) Before manually raising framed walls that are 15 feet or more in height, temporary restraints such as cleats on the foundation/floor system or straps on the wall bottom plate shall be installed to prevent inadvertent horizontal sliding or uplift of the framed wall bottom plate.

(2) Anchor bolts alone shall not be used for blocking or bracing when raising framed walls 15 feet or more in height.

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Amend Section 1716.2 to read (continued):

(d) Stabilization of Structures.

Employees shall not work from or walk on top plates, joists, rafters, trusses, beams or other structural members until they are securely braced and supported.

(e) Work on Top Plate, Joists and Roof Structure Framing.

(1) When employees are walking/working on top plates, joists, rafters, trusses, beams or other similar structural members over 6 15-feet above the surrounding grade or floor level below, fall protection shall be provided by scaffolding, guardrails, a personal fall protection system, or by other means prescribed by CSO Article 24, Fall Protection.

Exceptions: (A) When employees are walking/working on securely braced joists, rafters or roof trusses on center spacing not exceeding 24 inches, and more than 6 feet from an unprotected side or edge, they shall be considered protected from falls between the joists, rafters or roof trusses.

(B) When installing floor joists, <u>floor or roof</u> sheathing employees shall be considered protected from falls <u>to the interior</u> up to and including 15 feet above the surrounding grade or floor level below when standing on or working from joists laid on their sides on the top plate on center spacing not exceeding 24 inches when walking/working within 24 inches of the top plate or other structural support.

(2) Truss Support Plate. Where a truss support plate is used during the installation of trusses, it shall be constructed of a 2x6 plank laid flat, secured lineally to a 2x6 plank laid on edge, supported with 2x4 wood members (legs) spaced no more than 6 feet on center and attached to diagonal bracing adequately secured to support its intended load. All material dimensions are minimum and nominal.

(f) Work on Floors and Other Walking/Working Surfaces. When working on floors and other walking/working surfaces that will later be enclosed by framed exterior walls, employees directly involved with the layout and construction of framed stud walls shall be protected from falling by standard guardrails as specified in Section 1620 around all unprotected sides or edges, or by other means prescribed by CSO Article 24, Fall Protection, when the floor or walking/working surface is over <u>6 15 feet</u> above the surrounding grade or floor level below.

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Amend Section 1716.2 to read (continued):

(g) Work on Starter Board, Roof Sheathing and Fascia Board.

(1) When installing starter board, roof sheathing, and fascia board, employees shall be protected from <u>exterior falls</u> falling by scaffolding, guardrails, personal fall protection systems, or other means prescribed by CSO Article 24, Fall Protection as follows:

(A) For structures greater than one story in height where the fall height exceeds $\underline{6}$ 15 feet above the surrounding grade or floor level below, or

(B) When working on roofs sloped greater than 7:12.

EXCEPTION to (g)(1)(B): For roofs sloped up to 12:12, slide guards may be used as fall protection up to and including 15 feet as measured from the eaves to the surrounding grade or floor level below.

(2) Employees working inside the gable end truss or rafter shall be considered protected from falls where the gable end truss has been installed and braced to withstand a lateral force of 200 pounds and the employee installs fascia or starter board working from within the gable end truss or rafter.

(3) When work must be performed outside the gable end truss or rafter, the employee shall be protected from falling by scaffolding, or a personal fall protection system, or other means prescribed by CSO Article 24.

EXCEPTION to (g)(3): When the work is of short duration and limited exposure and the hazards involved in rigging and installing the safety devices required equal or exceed the hazards involved in the actual construction, these provisions may be temporarily suspended provided the work is performed by a qualified person.

(h) Installation of Windows. Wall openings shall be guarded as required by Section 1632. The guardrail may be removed immediately prior to the installation of the window components if removal of the guardrail is necessary to install the window(s).

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Amend Section 1716.2 to read (continued):

(i) Scaffolding.

(1) Where scaffolding is used, it shall be constructed in accordance with all applicable requirements of CSO Articles 21 and 22 (Scaffolds).

(2) Where scaffolds are installed parallel and adjacent to framed structure walls, the interior railing may be omitted for installing joists, rafters or trusses if the scaffold platform is 15 feet or less from the interior floor level below and the top plate is higher than the adjacent work platform.

(3) When a scaffold is used as an edge protection platform:

(A) The platform shall not be more than 2 feet vertically below the top plate, and shall be fully planked.

(B) The distance between the inboard edge of the platform and the building or structure wall shall not be more than 16 inches.

(4) Additional provisions where a metal frame scaffold is used as an edge protection platform:

(A) A 2" x 6" or larger toeboard shall be secured on edge parallel to the outer rail.

(B) Scaffolds shall be secured in tension and compression to the structure at or near the top of the scaffold at each end and at every other frame not to exceed 20-foot intervals.

(C) Guard railings shall extend not less than 42 inches vertically above the eaves if the outboard edge of the platform extends less than 12 inches horizontally beyond the eaves.

(j) Training:

Employees exposed to fall hazards shall be trained in accordance with the requirements of Sections 1509 and 3203 to recognize fall hazards associated with the erection and construction activities they will be performing and shall be trained in the procedures to be followed in order to minimize these hazards. Such training shall be documented in accordance with Section 3203.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

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Amend Section 1730 to read:

§1730. Roof Hazards.

(a) During roofing operations the employer shall comply with the provisions of Section 1509 and employees shall be trained and instructed in accordance with the provisions of Section 1510 of t these orders. This section does not apply to residential roofing as defined in work (see Ssection 1731(b)).

Note: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

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Amend Section 1731 to read:

§1731. Roof Hazards - New Production-Type Residential Construction.

(a) Scope and Application.

(1) This section shall apply only to residential roofing work on new production-type residential construction with roof slopes 3:12 or greater.

(2) This section does not apply to custom-built homes, re-roofing operations, roofing replacements or additions on existing residential dwelling units.

Note: For other roofing operations and slopes less than 3:12, see Section 1730.

(b) Definitions.

Custom-built home. A single detached housing unit built under a single contract.

Eaves. The lowest edge of a sloped roof.

Production-type residential construction. Any new residential housing unit that is not a custombuilt home.

Roof. The exterior surface on the top of a building. This does not include floors or formwork which, because a building has not been completed, temporarily become the top surface of a building.

Roof slope. For the purposes of this section, the incline angle of a roof surface, given as a ratio of the vertical rise to the horizontal run. For example, a 4:12 roof has 4 feet of vertical rise for 12 feet of horizontal run.

Roof work. <u>Roof work consists of roofing and reroofing work – including roof removal –</u> performed on single family homes and duplex (attached two-family) residences and apartment buildings up to and including four stories. <u>The Roof work also includes</u> loading and installation

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of roofing materials, including related insulation, sheet metal that is integral to the roofing system, and vapor barrier work, but not including the construction of the roof deck.

Amend Section 1731 to read (continued):

(c) Fall protection for roofing work.

(1) Roof Slopes 30:12 through 7:12: Employees shall be protected from falling when on a roof surface where the eave height exceeds 615 feet above the grade or level below by use of one or any combination of the following methods:

(A) Personal Fall Protection (Section 1670).

(B) Catch Platforms [Section 1724(c)].

(C) Scaffold Platforms [Section 1724(d)].

(D) Eave Barriers [Section 1724(e)].

(E) Standard Railings and Toeboards (Article 16).

(F) Roof Jack Systems [Section 1724(a)].

(2) Roof Slopes Steeper than 7:12: Employees shall be protected from falling by methods prescribed in Subsections (c)(1)(A), (B), (C), or (E) regardless of height.

(d) Training.

(1) In addition to training required by Sections 1509 and 3203, each affected employee shall be trained to ensure specific awareness of the fall hazards associated with roofing work, including, but not limited to:

(A) Work on or near gable ends,

(B) Slipping hazards,

(C) Roof holes and openings,

(D) Skylights,

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(E) Work on ladders and scaffolds,

(F) Access to roof,

Amend Section 1731 to read (continued):

(G) Placement and location of materials on the roof,

(H) Impalement hazards, and

(I) Care and use of fall protection systems.

(2) Documentation of employee training shall be maintained as required by Section 3203 of the General Industry Safety Orders.

Note: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.