Section

[Code of Federal Regulations] [Title 29, Volume 8] [Revised as of July 1, 2003] From the U.S. Government Printing Office via GPO Access [CITE: 29CFR1926.454] [Page 301-318] TITLE 29--LABOR CHAPTER XVII--OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, DEPARTMENT OF LABOR PART 1926--SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION--Table of Contents Subpart L--Scaffolds Sec. 1926.454 Training requirements. This section supplements and clarifies the requirements of Sec. 1926.21(b)(2) as these relate to the hazards of work on scaffolds. (a) The employer shall have each employee who performs work while on a scaffold trained by a person qualified in the subject matter to recognize the hazards associated with the type of scaffold being used and to understand the procedures to control or minimize those hazards. The training shall include the following areas, as applicable: (1) The nature of any electrical hazards, fall hazards and falling object hazards in the work area; [[Page 302]] (2) The correct procedures for dealing with electrical hazards and for erecting, maintaining, and disassembling the fall protection systems and falling object protection systems being used; (3) The proper use of the scaffold, and the proper handling of materials on the scaffold; (4) The maximum intended load and the load-carrying capacities of the scaffolds used; and (5) Any other pertinent requirements of this subpart. (b) The employer shall have each employee who is involved in erecting, disassembling, moving, operating, repairing, maintaining, or inspecting a scaffold trained by a competent person to recognize any hazards associated with the work in question. The training shall include the following topics, as applicable: (1) The nature of scaffold hazards; (2) The correct procedures for erecting, disassembling, moving, operating, repairing, inspecting, and maintaining the type of scaffold in guestion; (3) The design criteria, maximum intended load-carrying capacity and intended use of the scaffold; (4) Any other pertinent requirements of this subpart. (c) When the employer has reason to believe that an employee lacks the skill or understanding needed for safe work involving the erection, use or dismantling of scaffolds, the employer shall retrain each such employee so that the requisite proficiency is regained. Retraining is required in at least the following situations: (1) Where changes at the worksite present a hazard about which an employee has not been previously trained; or (2) Where changes in the types of scaffolds, fall protection, falling object protection, or other equipment present a hazard about which an employee has not been previously trained; or (3) Where inadequacies in an affected employee's work involving scaffolds indicate that the employee has not retained the requisite proficiency. Non-Mandatory Appendices (Non-mandatory) Appendix A to Subpart L of Part 1926--Scaffold Specifications This Appendix provides non-mandatory guidelines to assist employers in complying with the requirements of subpart L of this part. An employer may use these guidelines and tables as a starting point for designing scaffold systems. However, the guidelines do not provide all the information necessary to build a complete system, and the employer is still responsible for designing and assembling these components in

such a way that the completed system will meet the requirements of Sec. 1926.451(a). Scaffold components which are not selected and loaded in accordance with this Appendix, and components for which no specific guidelines or tables are given in this Appendix (e.g., joints, ties, components for wood pole scaffolds more than 60 feet in height, components for heavy-duty horse scaffolds, components made with other materials, and components with other dimensions, etc.) must be designed and constructed in accordance with the capacity requirements of Sec. 1926.451(a), and loaded in accordance with Sec. 1926.451(d)(1).

Index to Appendix A for Subpart L

1. General guidelines and tables. 2. Specific guidelines and tables. (a) Pole scaffolds: Single-pole wood pole scaffolds. Independent wood pole scaffolds. (b) Tube and coupler scaffolds. (c) Fabricated frame scaffolds. (d) Plasterers', decorators' and large area scaffolds.(e) Bricklayers' square scaffolds. (f) Horse scaffolds. (g) Form scaffolds and carpenters' bracket scaffolds. (h) Roof bracket scaffolds. (i) Outrigger scaffolds (one level). (j) Pump jack scaffolds. (k) Ladder jack scaffolds. (1) Window jack scaffolds. (m) Crawling boards (chicken ladders). (n) Step, platform and trestle ladder scaffolds. (o) Single-point adjustable suspension scaffolds. (p) Two-point adjustable suspension scaffolds. (q) (1) Stonesetters' multi-point adjustable suspension scaffolds. (2) Masons' multi-point adjustable suspension scaffolds. (r) Catenary scaffolds. (s) Float (ship) scaffolds. (t) Interior hung scaffolds. [[Page 303]]

- (u) Needle beam scaffolds.
- (v) Multi-level suspension scaffolds.
- (w) Mobile scaffolds.
- (x) Repair bracket scaffolds.
- (y) Stilts.
- (z) Tank builders' scaffolds.

1. General Guidelines and Tables

(a) The following tables, and the tables in Part 2--Specific guidelines and tables, assume that all load-carrying timber members (except planks) of the scaffold are a minimum of 1,500 lb-f/in\2\ (stress grade) construction grade lumber. All dimensions are nominal sizes as provided in the American Softwood Lumber Standards, dated January 1970, except that, where rough sizes are noted, only rough or undressed lumber of the size specified will satisfy minimum requirements.

(b) Solid sawn wood used as scaffold planks shall be selected for such use following the grading rules established by a recognized lumber grading association or by an independent lumber grading inspection agency. Such planks shall be identified by the grade stamp of such association or agency. The association or agency and the grading rules under which the wood is graded shall be certified by the Board of Review, American Lumber Standard Committee, as set forth in the American Softwood Lumber Standard of the U.S. Department of Commerce.

(i) Allowable spans shall be determined in compliance with the National Design Specification for Wood Construction published by the National Forest Products Association; paragraph 5 of ANSI A10.8-1988 Scaffolding-Safety Requirements published by the American National Standards Institute; or for 2x10 inch (nominal) or 2x9 inch (rough) solid sawn wood planks, as shown in the following table:

	Maximum	Maximum
	permissible	permissible
	span using	span using
Maximum intended nominal load $(lb/ft\2\)$	full thickness	nominal
	undressed	thickness
	lumber (ft)	lumber (ft)
25	10	8

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50	8	6
75	6	

(ii) The maximum permissible span for $1\1/4\ x$ 9-inch or wider wood plank of full thickness with a maximum intended load of 50 lb/ft.\2\ shall be 4 feet.

(c) Fabricated planks and platforms may be used in lieu of solid sawn wood planks. Maximum spans for such units shall be as recommended by the manufacturer based on the maximum intended load being calculated as follows:

Rated load capacity	Intended load
Light-duty	25 pounds per square foot applied uniformly over the entire span area.
Medium-duty	50 pounds per square foot applied uniformly over the entire span area.
Heavy-duty	75 pounds per square foot applied uniformly over the entire span area.
One-person	250 pounds placed at the center of the span (total 250 pounds).
Two-person	250 pounds placed 18 inches to the left and right of the center of the span (total 500 pounds).
Three-person	250 pounds placed at the center of the span and 250 pounds placed 18 inches to the left and right of the center of the span (total 750 pounds).

Note: Platform units used to make scaffold platforms intended for light-duty use shall be capable of supporting at least 25 pounds per square foot applied uniformly over the entire unit-span area, or a 250pound point load placed on the unit at the center of the span, whichever load produces the greater shear force.

(d) Guardrails shall be as follows: (i) Toprails shall be equivalent in strength to 2 inch by 4 inch lumber; or $1\1/4\$ inch x 1/8 inch structural angle iron; or 1 inch x .070 inch wall steel tubing; or 1.990 inch x .058 inch wall aluminum tubing. (ii) Midrails shall be equivalent in strength to 1 inch by 6 inch lumber; or 1/1/4 inch x 1/4 inch x 1/8 inch structural angle iron; or 1 inch x .070 inch wall steel tubing; or 1.990 inch x .058 inch wall aluminum tubing. (iii) Toeboards shall be equivalent in strength to 1 inch by 4 inch lumber; or $1\1/4\$ inch x $1\1/4\$ inch structural angle iron; or 1 inch x .070 inch wall steel tubing; or 1.990 inch x .058 inch wall aluminum tubing. (iv) Posts shall be equivalent in strength to 2 inch by 4 inch lumber; or $1\1/4$ inch x $1\1/4$ inch x 1/8 structural angle iron; or 1 inch x .070 inch wall steel tubing; or 1.990 inch x .058 inch wall aluminum tubing. (v) Distance between posts shall not exceed 8 feet. (e) Overhead protection shall consist of 2 inch nominal planking laid tight, or $\3/4\$ -inch plywood. (f) Screen installed between toeboards and midrails or toprails shall consist of No. 18 gauge U.S. Standard wire one inch mesh. [[Page 304]] 2. Specific guidelines and tables.

(a) Pole Scaffolds.

Single Pole Wood Pole Scaffold	Single	Pole	Wood	Pole	Scaffold
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	5 1 1	J 1	Medium duty up to 60 feet high	
Maximum intended load (lbs/ft	25	25	50	75

$\langle 2 \rangle$).				
Poles or uprights	2x4 in	4x4 in	4x4 in	4x6 in.
Maximum pole spacing (longitudinal).	6 feet	10 feet	8 feet	6 feet
Maximum pole spacing (transverse).	5 feet	5 feet	5 feet	5 feet
Runners Bearers and maximum spacing of bearers:	1x4 in	1\1/4\x9 in	2x10 in	2x10 in.
3 feet	2x4 in	2x4 in	2x10 in. or 3x4 in	2x10 in. or 3x5 in.
5 feet	2x6 in. or 3x4 in	2x6 in. or 3x4 in. (rough).	2x10 in. or 3x4 in	2x10 in. or 3x5 in.
6 feet			2x10 in. or 3x4 in	2x10 in. or 3x5 in.
8 feet			2x10 in. or 3x4 in	
Planking	1\1/4\x9 in	2x10 in	2x10 in	2x10 in.
Maximum vertical spacing of horizontal members.	7 feet	9 feet	7 feet	6 ft. 6 in.
Bracing horizontal	1x4 in	1x4 in	1x6 in. or 1\1/ 4\x4 in.	2x4 in.
Bracing diagonal	1x4 in	1x4 in	1x4 in	2x4 in.
Tie-ins	1x4 in	1x4 in	1x4 in	1x4 in.

Note: All members except planking are used on edge. All wood bearers shall be reinforced with $3/16x^2$ inch steel strip, or the equivalent, secured to the lower edges for the entire length of the bearer.

Independent Wood Pole Scaffolds

	Light duty up to 20 feet high	Light duty up to 60 feet high	Medium duty up to 60 feet high	Heavy duty up to 60 feet high
Maximum intended load	25 lbs/ft\2\		50 lbs/ft\2\	75 lbs/ft\2\.
Poles or uprights Maximum pole spacing (longitudinal).	2x4 in 6 feet	4x4 in 10 feet	4x4 in 8 feet	4x4 in. 6 feet.
Maximum (transverse)	6 feet	10 feet	8 feet	8 feet.
Runners Bearers and maximum spacing of bearers:	1\1/4\x4 in	1\1/4\x9 in	2x10 in	2x10 in.
3 feet	2x4 in	2x4 in	2x10 in	2x10 in. (rough).
6 feet	2x6 in. or 3x4 in	2x10 in. (rough) or 3x8 in.	2x10 in	2x10 in. (rough).
8 feet	2x6 in. or 3x4 in	2x10 in. (rough) or 3x8 in.	2x10 in	
10 feet	2x6 in. or 3x4 in	2x10 in. (rough) or 3x3 in.		
Planking	1\1/4\x9 in	2x10 in	2x10 in	2x10 in.
Maximum vertical spacing of horizontal members.	7 feet	7 feet	6 feet	6 feet.
Bracing horizontal	1x4 in	1x4 in	1x6 in. or 1\1/ 4\x4 in.	2x4 in.
Bracing diagonal	1x4 in	1x4 in	1x4 in	2x4 in.
Tie-ins				1x4 in.

Note: All members except planking are used on edge. All wood bearers shall be reinforced with $3/16x^2$ inch steel strip, or the equivalent, secured to the lower edges for the entire length of the bearer.

(b) Tube and coupler scaffolds.

Minimum Size of Members

	Light duty	Medium duty	Heavy duty
Maximum intended load Posts, runners and braces	Nominal 2 in. (1.90 inches) OD steel tube	Nominal 2 in. (1.90 inches) OD steel tube	75 lbs/ft\2\. Nominal 2 in. (1.90 inches) OD steel tube
Bearers	or pipe. Nominal 2 in. (1.90 inches).	or pipe. Nominal 2 in. (1.90 inches).	or pipe. Nominal 2\1/2\ in. (2.375 in.).
	OD steel tube or pipe and a maximum post spacing of 4 ft.x10	OD steel tube or pipe and a maximum post spacing of 4 ft.x7 ft.	OD steel tube or pipe and a maximum post spacing of 6 ft.x6 ft.
	ft	or. Nominal 2\1/2\ in.	

(2.375 in.).
OD steel tube or pipe
and a maximum post
spacing of 6 ft.x8
ft.*.

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Note: Longitudinal diagonal bracing shall be installed at an angle of 45 deg. (5 deg.).

Maximum Number of Planked Levels

Maximum Numbe	er of Plan	ked Levels	;		
	addition	Maximum number of additional planked levels		Maximum	
	Light	Medium duty	Heavy	scaffold (in feet)	
Number of Working Levels:					
1	16	11	6	125	
2	11	1	0	125	
3		0	0	125	
4		0	0	125	
 (c) Fabricated frame scaffold fature, no additional guidelines adopted in this Appendix. (d) Plasterers', decorators', guidelines for pole scaffolds or (a) and (b)) may be applied. (e) Bricklayers' square scaff faximum intended load: 50 lb/ft. 	or tables and large tube and o	for these e area sca	scaffold	ls are being The	
Maximum height: 5 ft. Gussets: 1 x 6 in. Braces: 1 x 8 in. Legs: 2 x 6 in. Bearers (horizontal members): 2 x (f) Horse scaffolds.	: 6 in.				
Maximum intended load (light duty					
<pre>** Horses shall be spaced not loads, and not more than 5 feet a Maximum intended load (medium dut dorizontal members or bearers: Light duty: 2 x 4 in. Medium duty: 3 x 4 in.</pre>	more than apart for n	n 8 feet a nedium dut 	part for y loads.	light duty	
Legs: 2 x 4 in. Longitudinal brace between legs:	1 x 6 in.				
Legs: 2 x 4 in.	8 in.	cket scaff	olds		

bracket or form scaffold at any one time. Tools and materials shall not

exceed 75 pounds in addition to the occupancy. (5) Wooden figure-four scaffolds: Maximum intended load: 25 lb/ft.\2\ Uprights: 2 x 4 in. or 2 x 6 in. Bearers (two): 1 x 6 in. Braces: 1 x 6 in. Maximum length of bearers (unsupported): 3 ft. 6 in. (i) Outrigger bearers shall consist of two pieces of 1 x 6 inch lumber nailed on opposite sides of the vertical support. (ii) Bearers for wood figure-four brackets shall project not more than 3 feet 6 inches from the outside of the form support, and shall be braced and secured to prevent tipping or turning. The knee or angle brace shall intersect the bearer at least 3 feet from the form at an angle of approximately 45 degrees, and the lower end shall be nailed to a vertical support. (6) Metal bracket scaffolds: Maximum intended load: 25 lb/ft.\2\ Uprights: 2 x 4 inch Bearers: As designed. Braces: As designed. (7) Wood bracket scaffolds: Maximum intended load: 25 lb/ft.\2\ Uprights: 2 x 4 in or 2 x 6 in Bearers: 2 x 6 in Maximum scaffold width: 3 ft 6 in Braces: 1 x 6 in (h) Roof bracket scaffolds. No specific quidelines or tables are given. [[Page 306]] (i) Outrigger scaffolds (single level). No specific guidelines or tables are given. (j) Pump jack scaffolds. Wood poles shall not exceed 30 feet in height. Maximum intended load--500 lbs between poles; applied at the

height. Maximum intended load--500 lbs between poles; applied at the center of the span. Not more than two employees shall be on a pump jack scaffold at one time between any two supports. When 2 x 4's are spliced together to make a 4 x 4 inch wood pole, they shall be spliced with ``10 penny'' common nails no more than 12 inches center to center, staggered uniformly from the opposite outside edges.

(k) Ladder jack scaffolds. Maximum intended load--25 lb/ft\2\. However, not more than two employees shall occupy any platform at any one time. Maximum span between supports shall be 8 feet.

(1) Window jack scaffolds. Not more than one employee shall occupy a window jack scaffold at any one time.

(m) Crawling boards (chicken ladders). Crawling boards shall be not less than 10 inches wide and 1 inch thick, with cleats having a minimum 1 x 1/1/2 inch cross-sectional area. The cleats shall be equal in length to the width of the board and spaced at equal intervals not to exceed 24 inches.

(n) Step, platform, and trestle ladder scaffolds. No additional guidelines or tables are given.

(o) Single-point adjustable suspension scaffolds. Maximum intended load--250 lbs. Wood seats for boatswains' chairs shall be not less than 1 inch thick if made of non-laminated wood, or 5/8 inches thick if made of marine quality plywood.

(p) Two-point adjustable suspension scaffolds. (1) In addition to direct connections to buildings (except window cleaners' anchors) acceptable ways to prevent scaffold sway include angulated roping and static lines. Angulated roping is a system of platform suspension in which the upper wire rope sheaves or suspension points are closer to the plane of the building face than the corresponding attachment points on the platform, thus causing the platform to press against the face of the building. Static lines are separate ropes secured at their top and bottom ends closer to the plane of the building face than the building face than the outermost edge of the platform. By drawing the static line taut, the platform is drawn against the face of the building.

(2) On suspension scaffolds designed for a working load of 500 pounds, no more than two employees shall be permitted on the scaffold at one time. On suspension scaffolds with a working load of 750 pounds, no more than three employees shall be permitted on the scaffold at one time.

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(3) Ladder-type platforms. The side stringer shall be of clear straight-grained spruce. The rungs shall be of straight-grained oak, ash, or hickory, at least $1 \\ 1/8 \\$ inches in diameter, with 7/8 inch tenons mortised into the side stringers at least 7/8 inch. The stringers shall be tied together with tie rods not less than 1/4 inch in diameter, passing through the stringers and riveted up tight against washers on both ends. The flooring strips shall be spaced not more than 5/8 inch apart, except at the side rails where the space may be 1 inch. Ladder-type platforms shall be constructed in accordance with the following table:

Schedule for Ladder-Type Platforms

Schedule for Ladder-Type Platforms

_____ Length of Platform..... 22 & 24 ft.... 28 & 30 ft. Side stringers, minimum cross section (finished sizes): At ends..... $1 3/4 \times 3$ in.... $1 3/4 \times 3 1/2$ in. [[Page 307]] At middle..... $1 3/4 \times 4 1/4$ in.. $1 3/4 \times 5$ in. Reinforcing strip (minimum). A $1/8 \times 7/8$ -inch steel reinforcing strip shall be attached to the side or underside, full length. Rungs..... Rungs shall be $1 \setminus 1/8 \setminus$ inch minimum diameter with at least $\7/8$ inch in diameter tenons, and the maximum spacing shall be 12 inches to center. Tie rods. Number (minimum)..... 5..... 6. Diameter (minimum)..... 1/4 in.... 1/4 in.

Flooring, minimum finished 1/2 x 23/4 in... 1/2 x 23/4 in. size.

(4) Plank-Type Platforms. Plank-type platforms shall be composed of not less than nominal 2 x 8 inch unspliced planks, connected together on the underside with cleats at intervals not exceeding 4 feet, starting 6 inches from each end. A bar or other effective means shall be securely fastened to the platform at each end to prevent the platform from slipping off the hanger. The span between hangers for plank-type platforms shall not exceed 10 feet.

(5) Beam-Type Platforms. Beam platforms shall have side stringers of lumber not less than 2 x 6 inches set on edge. The span between hangers shall not exceed 12 feet when beam platforms are used. The flooring shall be supported on 2 x 6 inch cross beams, laid flat and set into the upper edge of the stringers with a snug fit, at intervals of not more than 4 feet, securely nailed to the cross beams. Floor-boards shall not be spaced more than 1/2 inch apart.

(q)(1) Multi-point adjustable suspension scaffolds and stonesetters' multi-point adjustable suspension scaffolds. No specific guidelines or tables are given for these scaffolds.

(2) Masons' multi-point adjustable suspension scaffolds. Maximum intended load--50 $\rm lb/ft^2.$ Each outrigger beam shall be at

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Section least a standard 7 inch, 15.3 pound steel I-beam, at least 15 feet long. Such beams shall not project more than 6 feet 6 inches beyond the bearing point. Where the overhang exceeds 6 feet 6 inches, outrigger beams shall be composed of stronger beams or multiple beams. (r) Catenary scaffolds. (1) Maximum intended load--500 lbs. (2) Not more than two employees shall be permitted on the scaffold at one time. (3) Maximum capacity of come-along shall be 2,000 lbs. (4) Vertical pickups shall be spaced not more than 50 feet apart. (5) Ropes shall be equivalent in strength to at least 1/2 inch (1.3 cm) diameter improved plow steel wire rope. (s) Float (ship) scaffolds. (1) Maximum intended load--750 lbs. (2) Platforms shall be made of 3/4 inch plywood, equivalent in rating to American Plywood Association Grade B-B, Group I, Exterior. (3) Bearers shall be made from 2x4 inch, or 1x10 inch rough lumber. They shall be free of knots and other flaws. (4) Ropes shall be equivalent in strength to at least 1 inch (2.5 cm) diameter first grade manila rope. (t) Interior hung scaffolds. Bearers (use on edge): 2x10 in. Maximum intended load: Maximum span 25 lb/ft.\2\: 10 ft. 50 lb/ft.\2\: 10 ft. 75 lb/ft.\2\: 7 ft. (u) Needle beam scaffolds. Maximum intended load: 25 lb/ft.\2\ Beams: 4x6 in. Maximum platform span: 8 ft. Maximum beam span: 10 ft. (1) Ropes shall be attached to the needle beams by a scaffold hitch or an eye splice. The loose end of the rope shall be tied by a bowline knot or by a round turn and a half hitch. (2) Ropes shall be equivalent in strength to at least 1 inch (2.5 cm) diameter first grade manila rope. (v) Multi-level suspension scaffolds. No additional guidelines or tables are being given for these scaffolds. (w) Mobile Scaffolds. Stability test as described in the ANSI A92 series documents, as appropriate for the type of scaffold, can be used to establish stability for the purpose of Sec. 1926.452(w)(6). (x) Repair bracket scaffolds. No additional guidelines or tables are being given for these scaffolds. (y) Stilts. No specific guidelines or tables are given. (z) Tank builder's scaffold. (1) The maximum distance between brackets to which scaffolding and guardrail supports are attached shall be no more than 10 feet 6 inches. [[Page 308]]

(2) Not more than three employees shall occupy a 10 feet 6 inch span of scaffold planking at any time.

(3) A taut wire or synthetic rope supported on the scaffold brackets shall be installed at the scaffold plank level between the innermost edge of the scaffold platform and the curved plate structure of the tank shell to serve as a safety line in lieu of an inner guardrail assembly where the space between the scaffold platform and the tank exceeds 12 inches (30.48 cm). In the event the open space on either side of the rope exceeds 12 inches (30.48 cm), a second wire or synthetic rope appropriately placed, or guardrails in accordance with Sec. 1926.451(e)(4), shall be installed in order to reduce that open space to less than 12 inches (30.48 cm).

(4) Scaffold planks of rough full-dimensioned 2-inch (5.1 cm)x12inch (30.5 cm) Douglas Fir or Southern Yellow Pine of Select Structural Grade shall be used. Douglas Fir planks shall have a fiber stress of at least 1900 lb/in\2\ (130,929 n/cm\2\) and a modulus of elasticity of at least 1,900,000 lb/in\2\ (130,929,000 n/cm\2\), while Yellow Pine planks shall have a fiber stress of at least 2500 lb/in\2\ (172,275 n/cm\2\) and a modulus of elasticity of at least 2,000,000 lb/in\2\ (137,820,000 n/cm\2\).

(5) Guardrails shall be constructed of a taut wire or synthetic rope, and shall be supported by angle irons attached to brackets welded to the steel plates. These guardrails shall comply with Sec. 1926.451(e)(4). Guardrail supports shall be located at no greater than 10 feet 6 inch intervals.

(Non-mandatory) Appendix B to Subpart L of Part 1926--Criteria for Determining the Feasibility of Providing Safe Access and Fall Protection for Scaffold Erectors and Dismantlers [Reserved] (Non-mandatory) Appendix C to Subpart L of Part 1926--List of National Consensus Standards ANSI/SIA A92.2-1990 Vehicle-Mounted Elevating and Rotating Aerial Devices ANSI/SIA A92.3-1990 Manually Propelled Elevating Aerial Platforms ANSI/SIA A92.5-1990 Boom Supported Elevating Work Platforms ANSI/SIA A92.6-1990 Self-Propelled Elevating Work Platforms ANSI/SIA A92.7-1990 Airline Ground Support Vehicle-Mounted Vertical Lift Devices ANSI/SIA A92.8-1993 Vehicle-Mounted Bridge Inspection and Maintenance Devices ANSI/SIA A92.9-1993 Mast-Climbing Work Platforms (Non-mandatory) Appendix D to Subpart L--List of Training Topics for Scaffold Erectors and Dismantlers This Appendix D is provided to serve as a guide to assist employers when evaluating the training needs of employees erecting or dismantling supported scaffolds. The Agency believes that employees erecting or dismantling scaffolds should be trained in the following topics: General Overview of Scaffolding regulations and standards erection/dismantling planning PPE and proper procedures fall protection materials handling access working platforms foundations guys, ties and braces Tubular Welded Frame Scaffolds specific regulations and standards components parts inspection erection/dismantling planning guys, ties and braces fall protection general safety access and platforms erection/dismantling procedures rolling scaffold assembly putlogs Tube and Clamp Scaffolds specific regulations and standards components parts inspection erection/dismantling planning guys, ties and braces fall protection general safety access and platforms erection/dismantling procedures buttresses, cantilevers, & bridges System Scaffolds specific regulations and standards components parts inspection erection/dismantling planning guys, ties and braces fall protection general safety access and platforms erection/dismantling procedures buttresses, cantilevers, & bridges Scaffold erectors and dismantlers should all receive the general

Scaffold erectors and dismantlers should all receive the general overview, and, in addition, specific training for the type of supported scaffold being erected or dismantled.

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(Non-mandatory) Appendix E to Subpart L--Drawings and Illustrations

This Appendix provides drawings of particular types of scaffolds and scaffold components, and graphic illustrations of bracing patterns and tie spacing patterns. This Appendix is intended to provide visual guidance to assist the user in complying with the requirements of subpart L, part 1926. [[Page 310]] [GRAPHIC] [TIFF OMITTED] TR30AU96.000 [[Page 311]] [GRAPHIC] [TIFF OMITTED] TR30AU96.001 HOISTS MUST BE ELECTRONICALLY ISOLATED FROM SCAFFOLD [[Page 312]] [GRAPHIC] [TIFF OMITTED] TR30AU96.002 [[Page 313]] [GRAPHIC] [TIFF OMITTED] TR30AU96.003 [[Page 314]] [GRAPHIC] [TIFF OMITTED] TR30AU96.004 [[Page 315]] [GRAPHIC] [TIFF OMITTED] TR30AU96.005 [[Page 316]] [GRAPHIC] [TIFF OMITTED] TR30AU96.006 [[Page 317]] [GRAPHIC] [TIFF OMITTED] TR30AU96.007 [[Page 318]] [GRAPHIC] [TIFF OMITTED] TR30AU96.008

[61 FR 46122, Aug. 30, 1996; 61 FR 59832, Nov. 25, 1996]