

- 3) Erection, use and dismantling procedures.
- 4) Crossbracing.
- 5) Maximum freestanding height.
- 6) Tying the scaffold to the structure.
- 7) Maximum allowable height.
- 8) Load placement.
- 9) Maximum allowable carriage load.
- 10) Design load of carriage and components.
- 11) Platform elevating and lowering procedures.
- 12) Inspection and maintenance.
- 13) Fall protection during erection and dismantling.

**24.5.4** Employers shall instruct and supervise their employees in the safe use of the adjustable scaffolding provided and shall supply them with all of the manufacturer's instructional material. The scaffold system shall be operated and used by persons who have:

- 1) Read and understood the manufacturer's instructions.
- 2) Been instructed in the safe operation, use and inspection of the scaffold system and related components.

**24.5.5** Personnel shall not work on scaffolds during storms, high winds or other adverse weather conditions. The use of platform canopies or enclosures must be employed in accordance with the manufacturer's recommendations.

## **25. MOBILE WORK STANDS**

### **25.1 General.**

**25.1.1** Mobile work stands shall be capable of supporting, without failure, their own weight and at least four times the maximum intended load. Although performance testing is not a part of this standard, those interested in testing are directed to the applicable revision of ANSI/UL 1322.

### **25.2 Work Levels.**

**25.2.1** The platform height shall not exceed three times the minimum base dimension and shall not be greater than 48 inches above the ground or floor.

**25.2.2** Platform units may be used at two different standing levels, provided the difference in the heights between platform units shall not exceed 16-1/2 inches. The difference in heights between the platform units may be greater than 16-1/2 inches provided that the upper platform unit not be used as a standing level.

**25.2.3** A minimum of two platform units shall be used at all times. The minimum platform width of a single platform unit shall be 8 inches. The width is the minimum dimension of the standing surface, measured perpendicular to the length. If two or more platform units are used at the same standing level, the space between adjacent platforms shall not exceed one inch.

**25.2.4** Access to the platform may be permitted from the ground or floor provided that the lowest standing level is less than 24 inches. Access to higher standing levels shall be provided as specified in 4.20.

**25.2.5** Mobile work stands shall be braced by cross, horizontal or diagonal braces, by restrained platforms, or by equivalent means. All brace connections shall be secure to prevent racking.

**25.2.6** The platform shall be restrained so as to limit horizontal movement.

**25.3 Casters.**

**25.3.1** Casters shall be designed for strength and dimensions to support four times the design working load.

**25.3.2** Caster shall have rubber or similar resilient tires with wheels having a minimum diameter of 4 inches, unless specific design requirements dictate the use of other materials.

**25.3.3** All mobile work stand casters shall be provided with a positive wheel and swivel lock, or equivalent means.

**25.3.4** Caster stems shall be secured in the mobile work stand leg to prevent the casters from accidentally falling out.

**25.4 Use of Mobile Work Stands.**

**25.4.1** Casters shall be locked when the mobile work stand is in use.

**25.4.2** Work stands may only be used on a floor or surface which is within 1-1/2 degrees from level, smooth (the equivalent of broom finished concrete) and free from pits, holes or obstructions. (Broom finished concrete is defined in ACI 316.)

**25.4.3** All tools or materials shall be secured or removed from the platform unit(s) before the mobile work stand is moved.

**25.4.4** Persons shall be prohibited from riding on mobile work stands while they are being moved.

**25.4.5** Units shall be erected, used and disassembled in accordance with the instructions furnished by the manufacturer.

**25.4.6** Units shall be inspected before and after use.

**25.5 Marking and Labeling Requirements.**

**25.5.1** Instruction labels or supplementary instruction sheets shall be provided by the manufacturer or distributor for mobile work stands. The instructions shall be provided on, or with, the unit. Maximum intended load shall be specified on the unit.

**25.5.2** Mobile work stands shall be marked with the manufacturer's or vendor's name or identification symbol. These markings shall either be stamped into a metal component or provided on a durable nameplate or equivalent label secured to the product.

**26. TABLES AND FIGURES**

The Tables and Figures on the following pages are normative and are part of the ANSI/ASSE A10.8 standard.

**Table 1**  
**Wood Sawn Plank Loading Chart**

Loading Condition	Maximum Span (ft.)	
	Douglas Fir or Southern Pine 2 in. x 10 in. Nominal (1-1/2 in. x 9-1/4 in. Actual)	Spruce Rough Sawn 1-7/8 in. x 9-7/8 in. Nominal or Full 2 in. x 9 in.
One-person or medium-duty <sup>(1)</sup>	10	8
Two-person or heavy-duty <sup>(1)</sup>	8	7
Three-person	5	5

(1) Light-duty loading does not govern in accordance with 5.1.2.3 for conditions covered by this table.

**Table 2**  
**Dimensions and Rated Working Loads of Fabricated Platforms**

Fabricated Platforms	Rated Working Load (lb)	Maximum Length (ft)	Maximum Width (in)	Minimum Width (in)
One-Person	250 <sup>(2)</sup>	24	20	12
Two-Person	500 <sup>(2)</sup>	40	30	12 <sup>(3)</sup>
Three-Person	750 <sup>(2)</sup>	40	36	20

(2) Based on platforms simply supported 12 inches from each end.

(3) Minimum platform width requirement is increased to 20 inches beyond 32 feet of platform length.

**Table 3**  
**Minimum Nominal Size and Maximum Spacing of Members of Single Pole Scaffolds (Light Duty)**

	Maximum Height of Scaffold	
	20 ft	60 ft
Uniformly distributed load	Not to exceed 25 lb/ft <sup>2</sup> *	Not to exceed 25 lb/ft <sup>2</sup> *
Poles or uprights	2 in x 4 in	4 in x 4 in
Pole spacing (longitudinal)	6 ft	10 ft
Maximum width of scaffold	5 ft	5 ft
Bearers or putlogs to 3 ft width	2 in x 4 in	2 in x 4 in
Bearers or putlogs to 5 ft width	2 in x 6 in (rough) or 3 in x 4 in (rough)	2 in x 6 in (rough) or 3 in x 4 in (rough)
Ledgers	1 in x 4 in	1-1/4 in x 9 in
Vertical spacing of horizontal members	7 ft	7 ft
Bracing, horizontal and diagonal	1 in x 4 in	1 in x 4 in
Tie-ins	1 in x 4 in	1 in x 4 in

\* lb/ft<sup>2</sup> signifies pounds per square foot.

NOTE: All members are used on edge. For planking requirements, see 7.16.

**Table 4**  
**Minimum Nominal Size and**  
**Maximum Spacing of Members of Single Pole Scaffolds**  
**(Medium Duty)**

Uniformly distributed load	Not to exceed 50 lb/ft <sup>2</sup>
Maximum height of scaffold	60 ft
Poles or uprights	4 in x 4 in
Pole spacing (longitudinal)	8 ft
Maximum width of scaffold	5 ft
Bearers or putlogs	2 in x 9 in (rough) or 3 in x 4 in (rough)
Spacing of bearers or putlogs	8 ft
Ledgers	2 in x 9 in (rough)
Vertical spacing of horizontal members	9 ft
Bracing, horizontal	1 in x 6 in or 1-1/4 in x 4 in
Bracing, diagonal	1 in x 4 in
Tie-ins	1 in x 4 in

NOTE: All members are used on edge. For planking requirements, see 7.16.

**Table 5**  
**Minimum Nominal Size and**  
**Maximum Spacing of Members of Single Pole Scaffolds**  
**(Heavy Duty)**

Uniformly distributed load	Not to exceed 75 lb/ft <sup>2</sup>
Maximum height of scaffold	60 ft
Poles or uprights	4 in by 4 in
Pole spacing (longitudinal)	6 ft
Maximum width of scaffold	5 ft
Bearers or putlogs	2 in x 9 in (rough) or 3 in x 5 in (rough)
Spacing of bearers or putlogs	6 ft
Ledgers	2 in x 9 in (rough)
Vertical spacing of horizontal members	6 ft 6 in
Bracing, horizontal and diagonal	2 in x 4 in
Tie-ins	1 in x 4 in

NOTE: All members are used on edge. For planking requirements, see 7.16.

**Table 6**  
**Minimum Nominal Size and**  
**Maximum Spacing of Members of Independent Pole Scaffolds**  
**(Light Duty)**

	Maximum Height of Scaffold	
	20 ft	60 ft
Uniformly distributed load	Not to exceed 25 lb/ft <sup>2</sup>	Not to exceed 75 lb/ft <sup>2</sup>
Poles or uprights	2 in x 4 in	4 in x 4 in
Pole spacing (longitudinal)	6 ft	10 ft
Pole spacing (transverse) (maximum width of scaffold)	6 ft	10 ft
Ledgers	1-1/4 in x 4 in	1-1/4 in x 9 in
Bearers to 3-ft span	2 in x 4 in	2 in x 4 in
Bearers to 10-ft span	2 in x 6 in (rough) or 3 in x 4 in (rough)	2 in x 9 in (rough) or 3 in x 8 in (rough)
Vertical spacing of horizontal members	7 ft	7 ft
Bracing, horizontal and diagonal	1 in x 4 in	1 in x 4 in
Tie-ins	1 in x 4 in	1 in x 4 in

NOTE: All members are used on edge. For planking requirements, see 7.16.

**Table 7\***  
**Minimum Nominal Size and**  
**Maximum Spacing of Members of Independent Pole Scaffolds**  
**(Medium Duty)**

Uniformly distributed load	Not to exceed 50 lb/ft <sup>2</sup>
Maximum height of scaffold	60 ft
Poles or uprights	4 in x 4 in
Pole spacing (longitudinal)	8 ft
Pole spacing (transverse) (maximum width of scaffold)	6 ft
Ledgers	2 in x 9 in
Vertical spacing of horizontal members	6 ft
Spacing of bearers	8 ft
Bearers	2 in x 9 in (rough) or 2 in x 10 in (rough)
Bracing, horizontal	1 in x 6 in or 1-1/4 in x 4 in
Bracing, diagonal	1 in x 4 in
Tie-ins	1 in x 4 in

\* These data are based on one working level and two additional planked levels.

NOTE: All members are used on edge. For planking requirements, see 7.16.

**Table 8**  
**Minimum Nominal Size and**  
**Maximum Spacing of Members of Independent Pole Scaffolds**  
**(Heavy Duty)**

Uniformly distributed load	Not to exceed 75 lb/ft <sup>2</sup>
Maximum height of scaffold	60 ft
Poles or uprights	4 in x 4 in
Pole spacing (longitudinal)	6 ft
Pole spacing (transverse) (maximum width of scaffold)	6 ft
Ledgers	2 in x 9 in (rough)
Vertical spacing of horizontal members	4 ft 6 in
Bearers	2 in x 9 in (rough)
Bracing, horizontal and diagonal	2 in x 4 in
Tie-ins	1 in x 4 in

\* These data are based on one working level and two additional planked levels.  
 NOTE: All members are used on edge. For planking requirements, see 7.16.

**Table 9**  
**Tube and Coupler Scaffolds**  
**(Light Duty)**  
**2-Inch (1.90) OD Bearer**

Uniformly distributed load	Not to exceed 25 lb/ft <sup>2</sup>	
Post spacing (longitudinal)	10 ft	
Post spacing (transverse)	4 ft	
	Working Levels	Additional Planked Levels
	1	16
	2	11
	3	6
	4	1
		Maximum Height (ft)
		125
		125
		125
		125

**Table 10a**  
**Tube and Coupler Scaffolds**  
**(Medium Duty)**  
**2-Inch (1.90) OD Bearer**

Uniformly distributed load	Not to exceed 50 lb/ft <sup>2</sup>	
Post spacing (longitudinal)	8 ft	
Post spacing (transverse)	3 ft – 6 ft	
	Working Levels	Additional Planked Levels
	1	15
	2	3
		Maximum Height (ft)
		125
		125

**Table 10b**  
**Tube and Coupler Scaffolds**  
**(Medium Duty)**  
**2-1/2-Inch (2.375) OD Bearer**

Uniformly distributed load	Not to exceed 50 lb/ft <sup>2</sup>	
Post spacing (longitudinal)	8 ft	
Post spacing (transverse)	6 ft	
Working Levels	Additional Planked Levels	Maximum Height (ft)
1	11	125
2	1	125

**Table 11**  
**Tube and Coupler Scaffolds**  
**(Heavy Duty)**  
**2-1/2-Inch (2.375) OD Bearer**

Uniformly distributed load	Not to exceed 75 lb/ft <sup>2</sup>	
Post spacing (longitudinal)	6 ft	
Post spacing (transverse)	6 ft	
Working Levels	Additional Planked Levels	Maximum Height (ft)
1	6	125

**Table 12**  
**Minimum Nominal Size and**  
**Maximum Spacing of Members of Outrigger Scaffolds**

	Light Duty	Medium Duty
Maximum scaffold load	25 lb/ft <sup>2</sup>	50 lb/ft <sup>2</sup>
Outrigger size	2 in x 10 in	3 in x 10 in
Maximum outrigger spacing	10 ft	6 ft

NOTE: For planking requirements, see 12.5.

**Table 13**  
**Minimum Dimensions for Bricklayers’**  
**Square Scaffold Members**

Members	Dimensions (in)
Bearers or horizontal members	2 x 6
Legs	2 x 6
Braces at corners	1 x 6
Braces diagonally from center frame	1 x 8

**Table 14**  
**Minimum Design Criteria for 25-lb/ft<sup>2</sup>**  
**Figure-Four Form Scaffolds**

Members	Dimensions
Brackets uprights	2 in x 4 in or 2 in x 6 in
Bracket outrigger ledgers (two)	1 in x 6 in
Bracket braces (two)	1 in x 6 in
Maximum length of ledgers	3 ft 6 in (unsupported)
Bracket upright spacing	8 ft 0 in (on centers)

NOTE: For planking requirements, see 14.2.5 and 14.2.6

**Table 15**  
**Minimum Design Criteria for 25-lb/ft<sup>2</sup>**  
**Metal Bracket Form Scaffolds**

Members	Dimensions
Guardrail post	2 in x 4 in
Guardrail	2 in x 4 in
Guardrail height	36 in to 45 in
Midrail	1 in x 6 in
Toeboards	1 in x 6 in
Metal bracket spacing (metal bracket or scaffold jack dimensions in accordance with manufacturer's design)	8 ft x 0 in

NOTE: For planking requirements, see 14.3.4 and 14.3.5.

**Table 16**  
**Minimum Design Criteria for 25-lb/ft<sup>2</sup>**  
**Wooden Bracket Form Scaffolds**

Members	Dimensions
Bracket uprights	2 in x 4 in or 2 in x 6 in
Bracket support ledgers	2 in x 6 in
Maximum bracket width	3 ft 6 in
Bracket braces	1 in x 6 in
Guardrail post	2 in x 4 in
Guardrail height	36 in to 42 in
Midrail	1 in x 6 in
Toeboards	1 in x 6 in
Bracket upright spacing	8 ft 0 in (on centers)

**Table 17**  
**Minimum Dimensions for**  
**Horse Scaffold Members**

Members	Dimensions (in)
Horizontal members or bearers*	3 x 4
Legs	1-1/4 x 4-1/2
Longitudinal brace between legs	1 x 6
Gusset brace at top of legs	1 x 8
Half diagonal braces	1-1/4 x 4-1/2

\* Maximum length 8 ft.

