



Section 13
Safety Health
and
Environmental
Manual

2024

Scaffolding

BRIESER CONSTRUCTION GENERAL CONTRACTORS		Developed:	4/23/2013
		Revised:	04/2023
CORPORATE SAFETY, HEALTH & ENVIRONMENTAL MANUAL		Revision:	05
		Reviewed:	04/17/23KMC
STANDARD OPERATING PROCEDURE:		Scaffolding	
CROSS REFERENCE:	29 CFR 1926 Subpart L Scaffold. ANSI/ASSE A10.8-2001 Safety Requirements for Scaffold		

PURPOSE:

It is the policy of Brieser Construction Co. that only Brieser Construction Co. employees are allowed to use company owned or leased equipment. The following exceptions will be allowed only after authorization of the Safety Manager.

Any requesting user must have a hold harmless signed by an officer of the requesting company. Further, a valid certificate of insurance must accompany the hold harmless adding Brieser Construction Co. as an additionally insured on the requesting company's policy.

Scaffolding on the job site can expose our employees and our subcontractor's employees to serious accidents. The Competent Person must oversee all scaffolding that is erected or used on the Brieser Construction Co. job sites. Only competent persons can build, dismantle, modify, or repair a scaffold. Only trained personnel may work from a scaffold. Only employees trained by a qualified person may work from a scaffold. Retraining is required if employee lacks the necessary skill or understanding for scaffolding work, demonstrates inadequacies involving scaffolding, or worksite hazards change.

The following rules must be followed to maintain a safe work environment:

GENERAL RULES:

- The footings or sills for scaffolds shall be sound, rigid, and capable of carrying the maximum intended load without settling or displacement. Unstable objects such as barrels, loose bricks, or concrete blocks shall not be used to support scaffolding or planks.
- Guardrail System shall be installed on all open sides and ends of scaffolds more than 6 feet above the ground or floor. The Guardrail System shall consist of top rail, mid rail, and toe board.

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TOP RAIL

- Must be 42 inches high (plus or minus 3 inches)
- When stilts are used, the top rail must be increased an amount equal to the height of the stilts.
- Mid rails must then be installed at a height midway between the walking/working level and top edge of top rail.
- Must withstand a force of at least 200 lbs. in any outward or downward direction at any point along the top rail.
- When 200 lbs. of force are exerted on the top rail during inspection the top rail must not deflect to a height less than 39 inches above the working level.
- The ends of all top rails shall not overhang the terminal posts, except where the overhang does not present a projection hazard.
- Steel or plastic banding shall not be used as top rails.
- Must be at least 1/4-inch nominal diameter or thickness.
- If wire rope is used as a top rail, it must be flagged every 6 feet with highly visible material.
- Manila, plastic, or synthetic rope being used for top rails shall be inspected as frequently as necessary to ensure that it continues to meet the strength requirements.

MID-RAIL

- Shall be used when there is no wall or parapet wall at least 21 inches high.
- Shall be installed at a height midway between the top rail and the walking/working level.
- Shall withstand, without failure, a force of 150 lbs. in any outward or downward direction at any point along the mid-rail.
- The ends of the mid-rails shall not overhang the terminal posts, except where the overhang does not present a projection hazard.
- Steel or plastic banding shall not be used as mid-rails.

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TOE BOARD

- Shall be utilized with all guardrail systems.
- Shall be erected along the edge of the overhead walking/working surface and capable of withstanding a force of at least 50 pounds applied in a downward or outward direction.
- Shall be solid, a minimum of 3 1/2 inches high and not over a 1/4 inch above the working surface. When materials are piled higher than the toe board, paneling or screening shall be erected from the toe board to the mid rail or top rail, as necessary.

***NOTE: Guard rail systems shall be surfaced as to prevent injury to an employee from punctures, lacerations, and to prevent snagging of clothing.*

GENERAL RULES continued:

- Scaffold 4 - 6 feet in height, with a minimum horizontal dimension in either direction of less than 45 inches, shall have guardrails installed.
- All working platforms must be fully planked.
- All planking shall be scaffold grade plank or full dimensional lumber.
- The ends of planking must extend over a horizontal support a minimum of 6 inches. Overlapping planks must overlap each other at least 12 inches and be supported by a horizontal support.
- All planking must be secured from movement (cleats).
- Screw jacks shall be used to level the scaffold.
- The height of a scaffold cannot exceed 4 times the minimum base dimension without outriggers or being tied off to a stable part of the building.
- Scaffolds shall be capable of supporting without failure at least 4 times the maximum intended load.
- Daily inspection of scaffolding on the job site must be made by a competent person. Inspections must be documented.

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GENERAL RULES continued:

- Prior to each use the scaffolding must be inspected by the user. Defective scaffolds should be reported immediately and should not be used until satisfactorily repaired.
- All scaffold users shall periodically inspect scaffolds throughout the shift.
- Scaffold must be properly tagged before it can be used. Only competent persons are allowed on a red tag scaffold. Other employees are only allowed to use scaffold that is tagged with a yellow or green tag. A yellow tag identifies the restrictions or hazard of scaffold use. Example: Fall protection required, Overhead clearance limited. A green tag scaffold has no restrictions or specific hazards.
- Guardrails shall be 2x4 approximately 42” high with mid-rail secured to vertical supports at intervals not to exceed 8’.
- Toe boards shall be a minimum of 3.5” in height.
- Provide screen between toe board and top rail where persons are required to work or pass under the scaffold.

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**TABLE I
Permissible Span**

	Light Duty	Medium Duty	Heavy Duty
Working Load (Pounds per sq. ft)	25	50	75
Permissible Span (ft.)	6	8	10

Any questions concerning scaffold installation and safety on your job site should be directed to the Safety Director.

TUBULAR WELDED FRAME

- All braces shall be in place.
- Scaffold legs shall be set on adjustable bases or bases placed on mudsills to adequately support the maximum rated load.
- All scaffold sections and casters must be secured by pins or wire intended for scaffold use.
- All casters shall be provided with a positive locking device to hold the scaffold in position.
- To prevent movement, the scaffold shall be secured to the building or structure at intervals NOT to exceed 30 feet horizontally and 26 feet vertically.
- Guardrails and toe boards shall be installed on all scaffolds more than 6 feet above the ground or floor.

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BAKER (Rolling) SCAFFOLD

- Guardrails shall be installed on Baker Scaffolds more than 4 feet in height.
- Baker Scaffolds greater than 10 feet in height must be equipped with outriggers or secured to the building.
- The height to base width ratio of the scaffold during movement is two to one or less unless the scaffold is designed and constructed to meet or exceed nationally recognized stability test requirements.
- All casters shall be provided with a positive locking device to hold the scaffold in position.
- When the scaffold is in use by any person, the wheels or casters shall be locked to prevent any movement.
- When the Baker Scaffold platform is 6 feet or higher, bracing must be installed near the floor level for increased stability.

SCAFFOLD TAGGING

PURPOSE

On scaffolds that will remain on projects in either a fully or partially erected state that may be used or potentially used by persons other than Brieser employees, who is responsible for their erection, dismantlement, alteration or modification, a notification system shall be used to inform workers of the status and condition of the scaffold.

Scaffold tagging will supplement the inspection portion of this scaffold policy to ensure the protection of employees from the hazards associated with the erection, dismantling, modification and use of scaffold and elevated work platforms.

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RESPONSIBILITIES

The Program Administrator: Brieser Safety Director

This person is responsible for:

- Issuing and administering this program and making sure that it satisfies all applicable federal, state, and local PPE requirements.
- Ensuring that employees receive initial and refresher training on scaffold use or erection and dismantling.
- Maintaining training records for all employees included in the training sessions.

Project Managers, Superintendents & Foreman

These people are responsible for:

General Superintendents

- Ensure that all aspects of this scaffold policy are implemented.
- Ensure that competent foreman and supervisor are assigned to carry out this program.
- Scaffold Erection Foremen
- Ensure all scaffolding is erected in accordance with OSHA regulations and the Brieser Scaffold Policy
- Implement the required fall protection and general safety precautions associated with the erection, modification, and dismantling of scaffolds.
- Tag incomplete scaffold with yellow CAUTION tag. (see Figure 1)
- Tag completed scaffolds with green ATTENTION tag (see Figure 2)
- Document inspection in the Scaffold Log

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Scaffold Use Supervisor

- Inspect each scaffold within his/her area of responsibility at the beginning of each shift.
- Initial and date the Scaffold Use Tag for each inspection
- Maintain the Scaffold Log as required.
- Tag incomplete scaffold with red WARNING tag (see Figure 3)

Employees

1. Use only scaffold that have been thoroughly inspected with green **ATTENTION** tags and current Scaffold Use Tags

Training

- Training in this procedure, and the scaffold Safety Program are incorporated into Brieser's Orientation.
- Training will be consistent with the definition of Scaffold User. The program must include hazards (fall, electrical, falling objects), fall protection, use, and load capacity.
- Periodic training on the contents of this procedure will be done in weekly safety meetings and daily TSTI analysis.
- Scaffold Erection Foremen and Scaffold Use Foremen will be trained to ensure competency in the applicable requirements involving scaffold erection and use.

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Figure 1



Figure 2



Figure 3



STATIONARY SCAFFOLD SAFETY CHECK LIST

PROJECT: _____

ADDRESS: _____

CONTRACTOR: _____

DATE OF INSPECTION: _____ INSPECTOR: _____

	YES	NO	ACTION/COMMENTS
1. Are scaffold components and planking in safe condition for use and is plank graded for scaffold use?			
2. Is the frame spacing and sill size capable of carrying intended loadings?			
3. Have competent persons been in charge of erection?			
4. Are sills properly placed and adequate size?			
5. Have screw jacks been used to level and plumb scaffold instead of unstable objects, such as concrete blocks, loose bricks, etc.?			
6. Are base plates and/or screw jacks in firm contact with sills and frame?			
7. Is scaffold level and plumb?			
8. Are all scaffold legs braced with braces properly attached?			
9. Is guard railing in place on all open sides and ends above 6'			
10. Has proper access been provided?			
11. Has overhead protection or screening been provided where necessary?			
12. Has scaffold been tied to structure at least every 30' in length and 26' in height?			
13. Have free standing towers been guyed or tied every 26' in height?			
14. Have brackets and accessories been properly placed:			
Brackets?			
Putlogs?			
Tube and Clamp?			
All nuts and bolts tightened?			
15. Is scaffold free of makeshift devices or ladders to increase height?			
16. Are working level platforms fully planked between guard rails?			
17. Does plank have minimum 12" overlap and extend 6" beyond supports?			
18. Are toe boards installed properly?			
19. Have hazardous conditions been provided for:			
Power lines?			
Wind loading?			
Possible washout of footings?			
Uplift and overturning moments due to placement of brackets, Putlogs, or other causes			
20. HAVE PERSONNEL BEEN INSTRUCTED IN THE SAFE USE OF THE EQUIPMENT			
21. Is scaffold tagged?			

ROLLING TOWER SAFETY CHECK LIST

PROJECT: _____

ADDRESS: _____

CONTRACTOR: _____

DATE OF INSPECTION: _____ INSPECTOR: _____

	YES	NO	ACTION/COMMENTS
1. Are scaffold components and planking in safe condition for use and is plank graded for scaffold use?			
2. Have competent persons been in charge of erection?			
3. Is the tower level and plumb?			
4. Is tower height less than four times the minimum base width?			
5. Are casters of proper size with effective locking devices?			
6. Are screw jacks extended less than 12"?			
7. Are casters and all frames locked together?			
8. Is tower fully braced on both sides?			
9. Has horizontal diagonal bracing been positioned properly at base and intermediate levels of 20"?			
10. Has proper guard railing been provided?			
11. Has safe access been provided?			
12. Is platform fully planked and are toe boards provided Where necessary?			
13. Are planks secured to prevent displacement or uplift?			
14. HAVE PERSONNEL BEEN INSTRUCTED IN THE SAFE USE OF THE EQUIPMENT?			
15. Is scaffold tagged?			

Scaffolding Learning Exercise

Answer Sheet

1. Scaffolding on the job site can expose our employees and our subcontractor's employees to serious accidents. The _____ must oversee all scaffolding that is erected or used on the Brieser Construction job sites.
 - a. Qualified Person
 - b. Competent Person**
2. The top rail of any scaffolding must be 42 inches plus or minus 3 and be able to withstand a force of 200 pounds in an outward and downward direction at any point.
 - a. True**
 - b. False
3. Mid Rail shall be installed at a height _____ the top rail and the walking/working level.
 - a. 11 ½ inches below
 - b. 6 inches below
 - c. Midway between**
 - d. Appropriate to
4. Inspections of scaffolding is required weekly by the foreman.
 - a. True
 - b. False**
5. A yellow tag identifies the restrictions or hazard of scaffold use. Example: Fall protection required, Overhead clearance limited. A green tag scaffold has no restrictions or specific hazards.
 - a. True**
 - b. False
6. When it comes to Baker Scaffolds the height to base width ratio of the scaffold during movement is two to one or less unless the scaffold is designed and constructed to meet or exceed nationally recognized stability test requirements.
 - a. True**
 - b. False