

What should I know about Proper Use of Scaffolding?

Inspected by **Competent Person**:

- Before each work shift AND
- After ANY occurrence which could affect the scaffold's structural integrity.
- Report any damage or weaken scaffolding to the competent person

Scaffold Inspection

Do not use any components with damage; including, heavy rust, dents, etc.



Check this out!







Scaffold Use & Concerns

- Scaffold must be inspected and should be documented at **start of each shift** or **after** modifications by a competent person
- Do a Visual Inspection for Obvious Issues:
 - Access
 - Full Planking
 - Guardrails
 - Plumbness



Competent Person Checklist:

1. When was the last time the scaffold was inspected?
2. Were the planks looked at? (checked for saw cuts, fungi, dents, face breaks, and splits)
3. Is there a ladder? (obstructed access, three feet above, within two feet of the bottom, built in)
4. Who trained the erecting & dismantling crew?
5. Last time the users were trained?
6. What is the maximum intended load of this scaffold?
7. What is the maximum load you intend to put on it?
8. Plum, square, level?
9. Base plates, mudsills?... (what is the foundation like)
10. Working levels fully planked? (holes, max. 9 1/2")
11. Extensions of planks over the end frame? (6"-12")
12. Fall protection? (when & what)
13. Securing the scaffold at 4:1? (width of frame)



What should I know about Proper Use of Scaffolding?

Maintain clearance near ALL power lines





Scaffold Hazard Assessment

- Watch the use of electricity on scaffolds.
- Always maintain clearances from overhead electrical power lines:
 - 10 feet for lines up to 50 kV
 - Plus .4 inches for each kV over 50



What should I know about Proper Use of Scaffolding?

- A Practical Approach:
 - The minimum distance from an insulated 300V line is three feet.
 - The minimum distance from anything over 300V is 10 feet or more.

What should I know about Proper Use of Scaffolding?

Ladders may not be
used on scaffolds

except on **Large Area**
scaffolds.



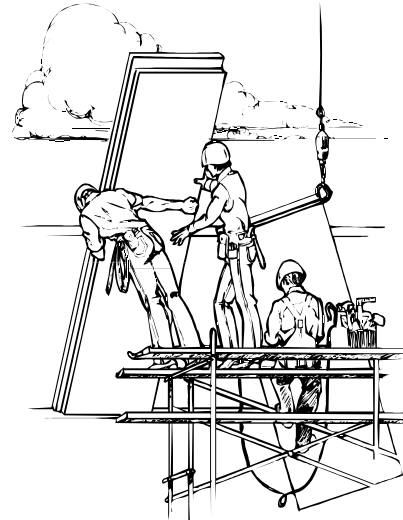


***Makeshift
devices must
not be used on
top of scaffold
platforms to
increase the
working level
height of
employees!***



What should I know about Proper Use of Scaffolding?

- Erected, moved, dismantled or altered only under supervision of **competent person**.
- No work on platforms covered with snow, ice except when removing the ice &/or snow.
- Work on scaffolds is not permitted during storm or high winds.
- Keep scaffolding clean and free of debris.



Could high wind conditions affect this system?



Scaffold Use & Concerns



- Do not extend working heights by planking on top of guardrails or by the use of boxes or ladders on scaffold platforms.
- Do not bridge between towers with planks or stages unless designed.



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***And don't
forget traffic
control
during your
hazard
assessment!***

Scaffold Use and Concerns

- All Users **Shall** be Trained!!!
- **Modifications shall only be made by a Competent Person.**



Fall Protection

Employees working more than 10 feet above a lower surface or at any height above dangerous equipment ***MUST*** be protected from falling.

Fall Protection Options:

- *Guardrail*
- *Personal fall arrest system (PFAS)*





The 10 foot fall protection requirement applies to all scaffolds.



Guardrail Systems

- Installed along all open sides and ends of platforms and walkways.
- Installed before released for use by employees other than erectors and dismantlers.
- Guardrails shall be surfaced to prevent punctures, lacerations, and prevent snagging of clothing.
- Guardrails shall not overhang such that it could constitute a projection hazard.
- Banding (steel or plastic) shall not be used as guardrails.

Guardrail Systems

Guardrails shall consist of ...

- Toprails after 1/1/00, 38” to 45” above platform surface.
 - Be capable of withstanding without failure a force from any downward or horizontal direction of 200 pounds.
- Midrail placed approximately between the toprail and the platform surface.
 - Be capable of withstanding without failure a force from any downward or horizontal direction of 150 pounds.



Crossbracing and Guardrails

Crossbracing may be use as a

- **Midrail** when the crossing point is between 20" and 30" above the work platform.

OR

- **Toprail** when the crossing point is between 38" and 48" above the work platform.

(The end points at each upright shall be no more than 48" apart)

