



Fall Protection

Susan Harwood Grant Training Program
2019

Scaffolds, Ladders and Lifts



Learning Objectives

- Understand general requirements for the safe use of scaffolds
- Understand how to maintain a safe position while using ladders
- Understand how to properly set up ladders
- Identify the OSHA fall protection requirements while using aerial lifts



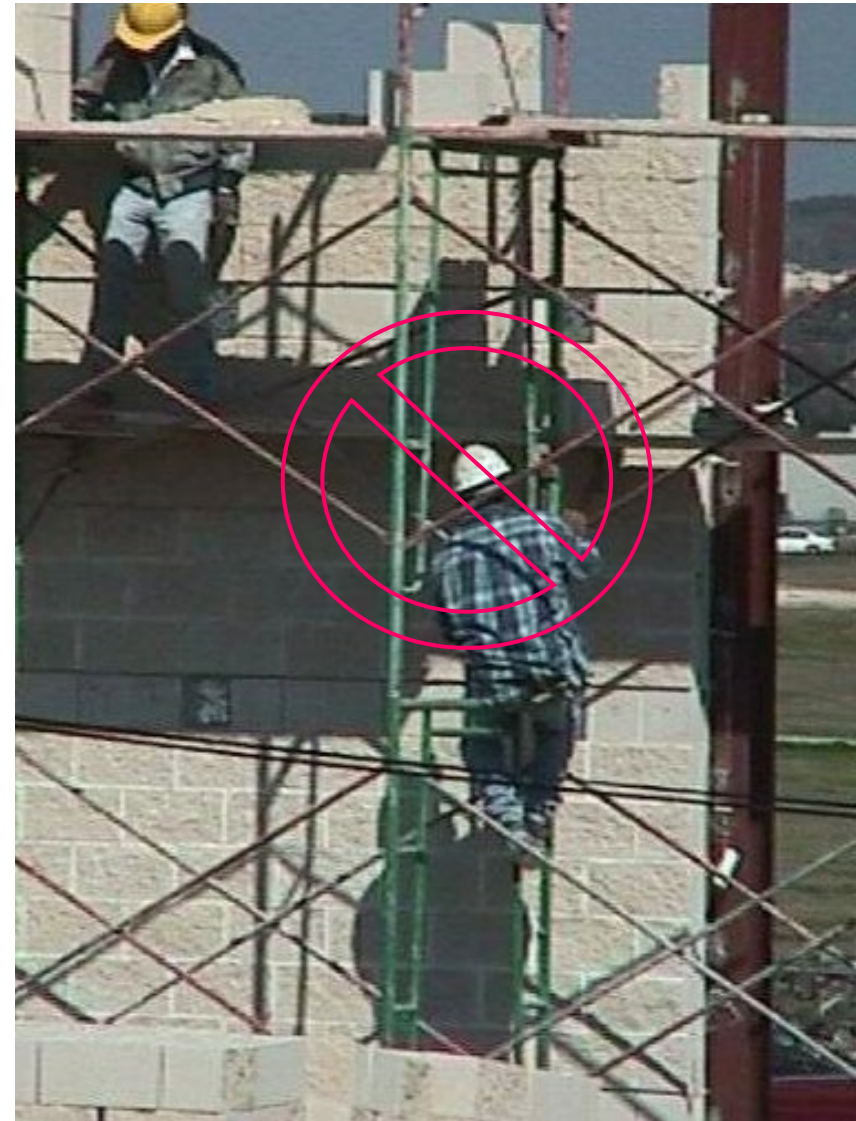
**A little
planning
could have
prevented
this.**





Access

- No access by the cross braces.
- The bottom rung cannot be more than 24" above the lower level.
- You must use a ladder or frames designed to be used as ladders.





Proper Access



Ladder
Platform



Stairway Frame



Ladder Frame

Ladder tied into
scaffold





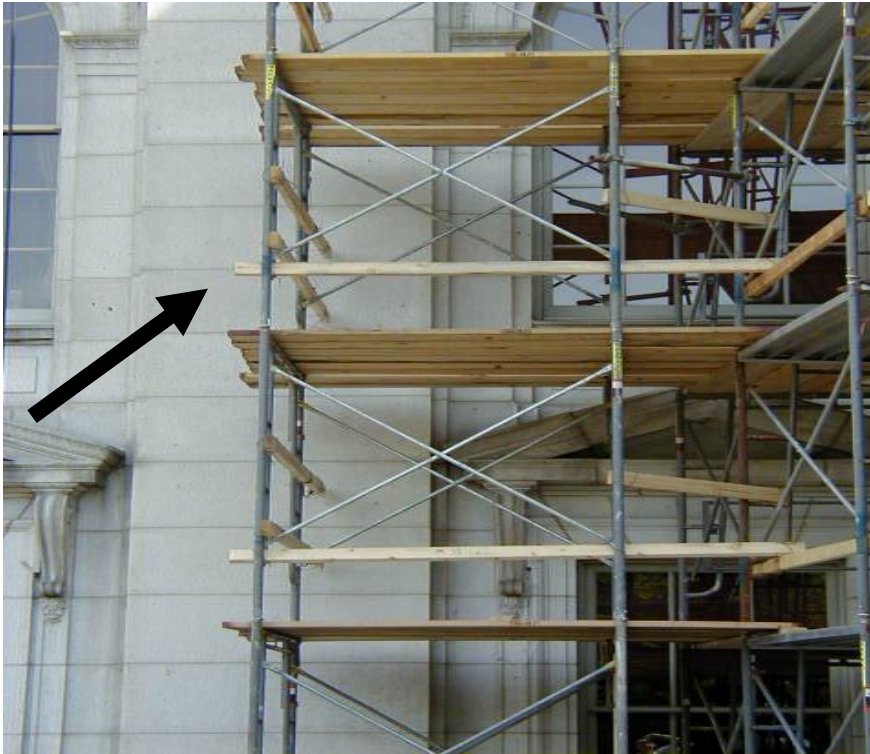
Scaffold Guardrails

- Guardrails are required on a scaffold more than 10 feet above a lower level.
- Best practice is at top of the first level.
- You must have a mid rail.





Braces as Guardrails



- The guardrails are in compliance using a 2x4 as one rail and the brace as the other rail.



Baker-Type Scaffolds

- Baker scaffolds can be unstable.
- Never use a double stack without outriggers.
- All wheels should be locked each and every time the scaffold is stopped.

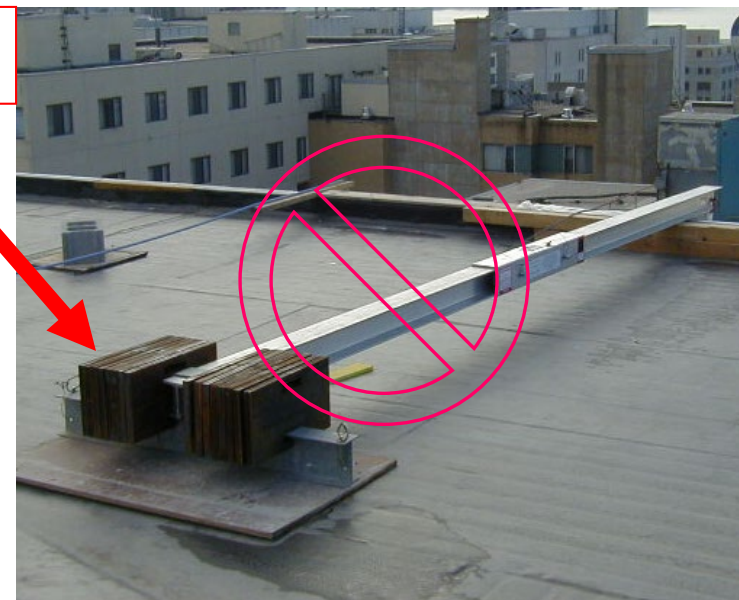




Suspended Scaffolds

- Outriggers must be properly set and have safety tie-backs
- Workers must have independent lifelines
- Inside protection must be provided if scaffold is more than 14" from the wall structure.

No tie-back





Improper Ladder Uses





Don't Lean a Step Ladder

- The step ladder is not designed to be leaned.
- The angle of the steps is not level when set at 4:1.
- The support leg can contact the ground causing the step leg to kick out.

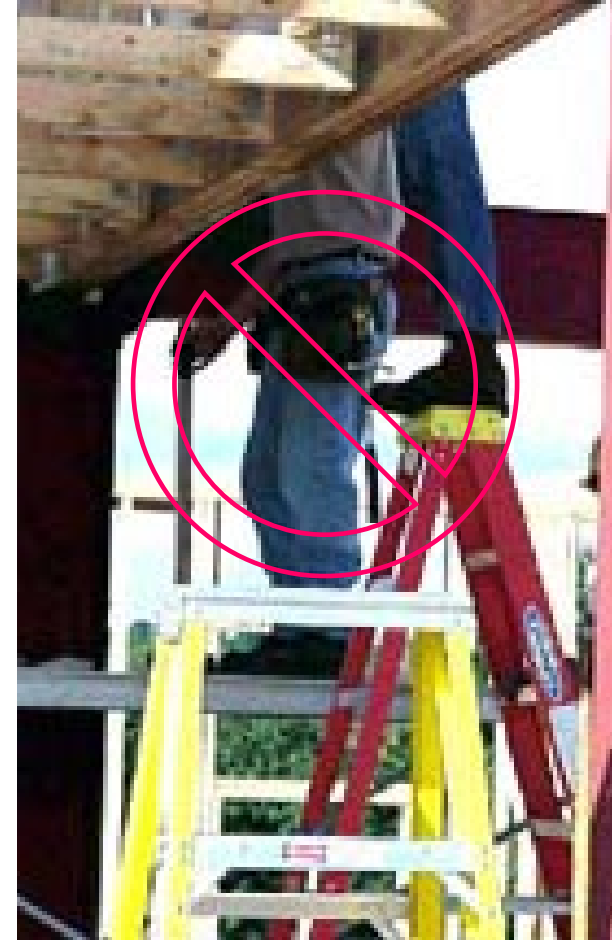




Do Not Stand On The Top Step or Next to the Top Step!



Obey the Labels!!



NO!



Working From a Straight Ladder

- Always face the ladder.
- Keep one hand on the ladder for hold.
- Do not work on top four steps.
- Work within easy reach.





Set The Proper Angle

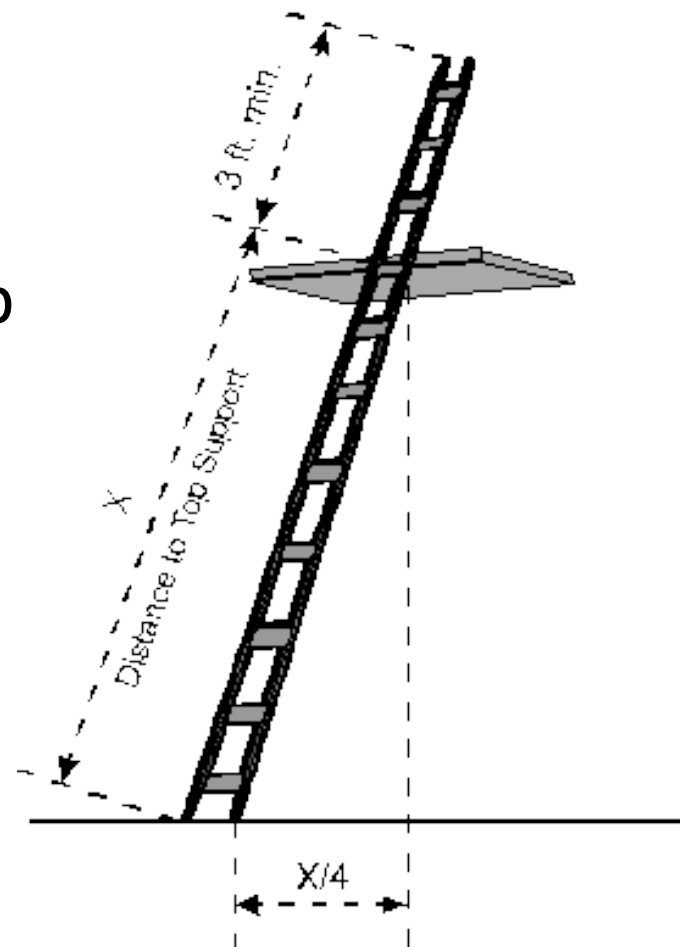
- The distance from the bottom of the ladder to the wall should be one-fourth of the ladder's working height.
- An extended arm will be close.





Proper Access Ladders

- Ladders must be secured
- Access ways must be guarded
- Ladders must extend 3' above the landing surface, or an adequate grab rail must be provided





Ladder Access Ways

- Offset guardrails are recommended
- Watch for tripping hazards at tops of ladders and stairs





Vertical Ladder Climbing

- High vertical ladders should be equipped with ladder climber devices.
- Ladder cages are required after a ladder reaches 24 feet if ladder climber devices are not utilized.





Fall Protection in Lifts

Aerial Boom Lift



Harnesses and Tie-off required.

Scissors Lift



No tie-off required unless worker gets off the floor

*Always close lift platform chains or doors.
Do not climb on, stand or lean over guardrails.*



No Standing On Guard Rails

- Do not stand on or work from the guardrails.





Aerial Boom Lifts

- Workers in aerial boom lifts must wear harnessed and be tied off to appropriate anchors.
- Tie-off should be set so that the worker cannot be ejected from the basket.
- Workers may never stand on the guardrails of an aerial lift.

