

Definition of Scaffolding

What is Scaffolding? Scaffolding is a temporary platform usually build to perform the job on a higher elevation, to avoid falling of person from the height we need to follow scaffolding safety procedures.

Materials

Scaffold can be made of the following Material:

- a.Tubular steel
- b. Tubular aluminium alloy
- c. Timber

Scaffold Hazard

The five most serious scaffold hazards:

- a.Fall
- b. Unsafe Access
- c. Struck by falling objects
- d. Electrocution
- e. Scaffold collapse.



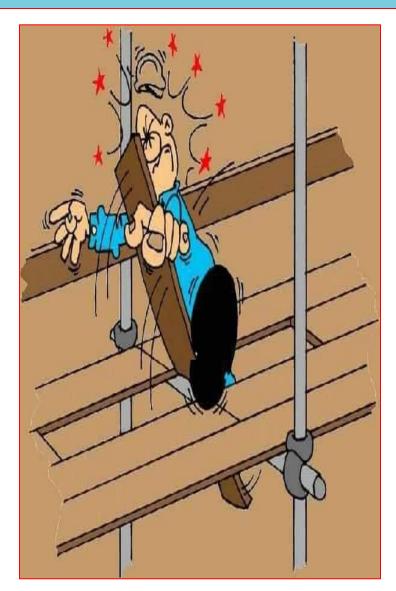
Employees working on scaffolds are exposed to these hazards:

- a. Falls from elevation: Caused by slipping, unsafe access and the lack of fall protection.
- b. Stuck by falling tools/debris.
- c. Electrocution -from overhead power lines.
- d. Scaffold collapse-caused by instability or overloading.
- e. Bad planking giving away

Scaffolding Hazard

Hazards of scaffolding: Apart from collapse, the principle hazards are,

- 1. Unsecured ladder slipping.
- 2. Use of unsuitable, damage and faulty materials.
- 3. Inadequately supported scaffold boards.
- 4. Omission/removal of guard rails.
- 5. Not proper tie-in/braced.
- 6. Overloading of platform and board.

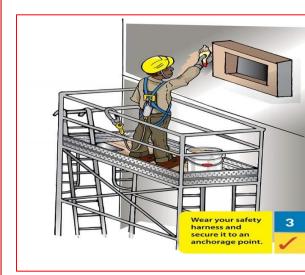


Protecting workers from Falls:

If a worker on a scaffold can fall more than 10 feet ,protect them by: a.Guardrails b. Personal Fall Arrest systems (PFAS)

Falling Protection

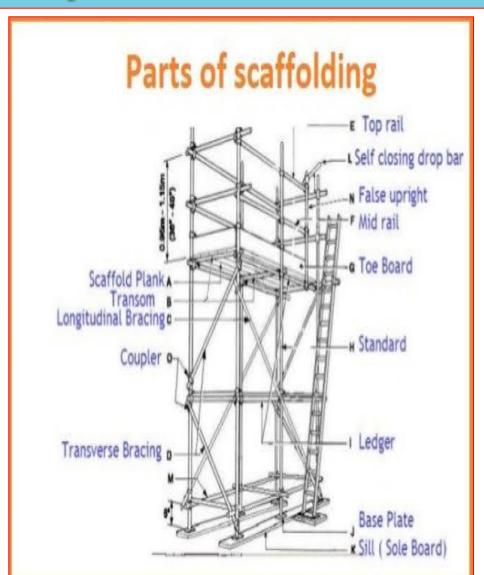
- a.Wear hardhats
- b. Barricade area below scaffold to forbid entry into that area.
- c. Competent staff is required.
- d. Tool box talk should be delivered.



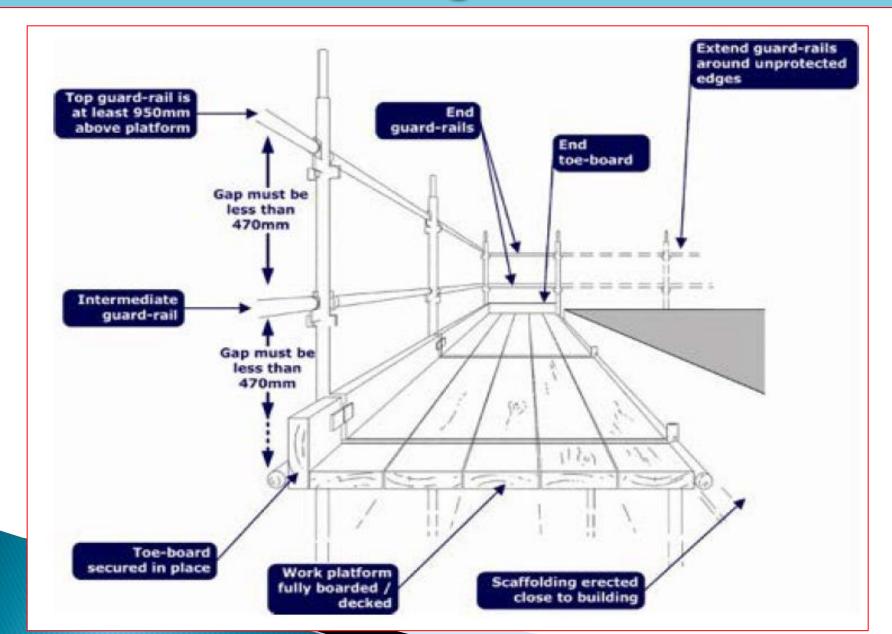
Scaffold Components

Scaffolding Components:

- 1. Sole plate
- 2. Base plate
- 3. Standards
- 4. Ledgers
- 5. Bracing
- 6. Decking
- 7. Guard rails (Hand rails and mid-rails) height approximately 1 meter.
- 8. Toe board should be minimum 6 inches in height.
- 9. Clamps standard: EN-74 and BS-15.
- 10. The ladder shall be secure at three locations.
- 11. Tags either green or red tag and shall be renewed after one week

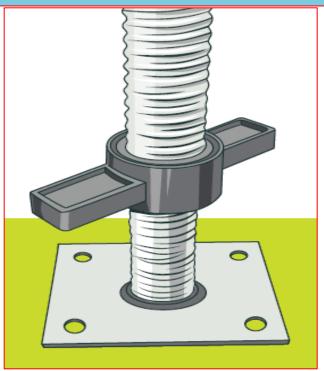


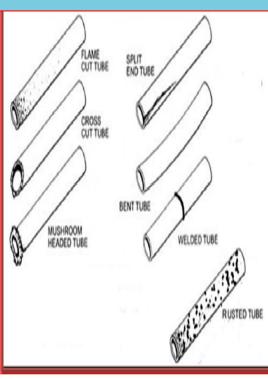
Scaffolding Platform



Scaffold Accessories Measurement





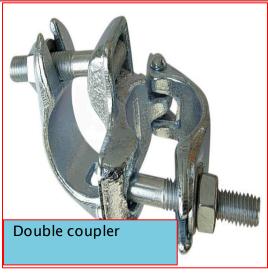


Sole Plate 450mm*225mm*35mm

Base Plate 150mm*150mm*6mm Tube Diameter 48.3mm or 1.90inches

Couplers and Clams

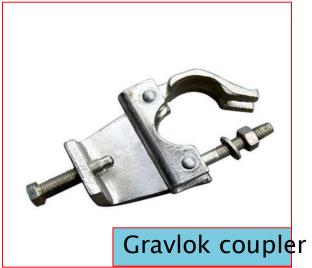












Couplers and Clams





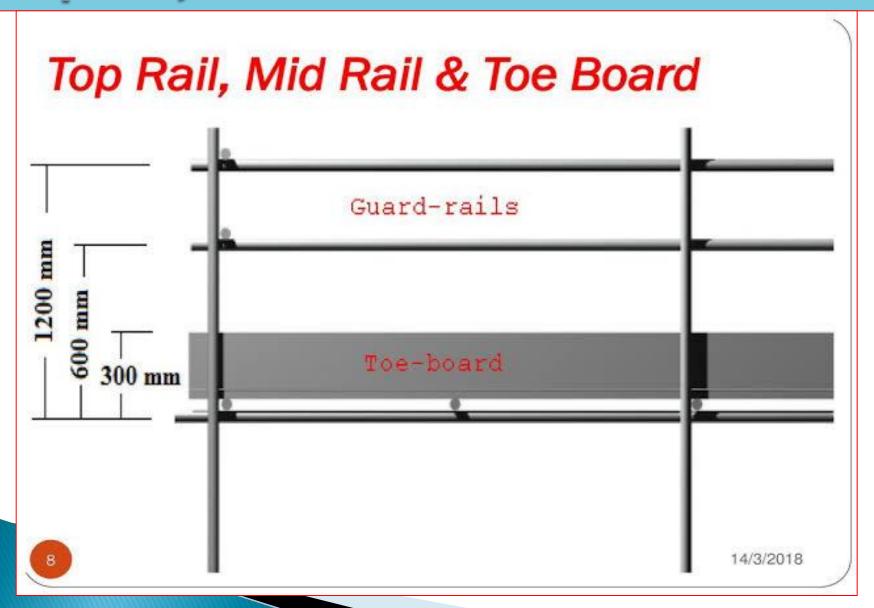


Working at height/fall prevention

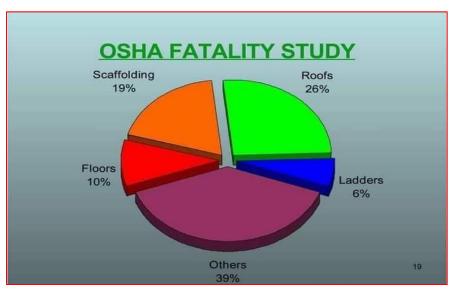
- Ø Keep workplace free from hazard.
- Ø Keep walking surface clean and dry.
- Ø Block/barricade the area while cleaning floors.
- Ø Report hazards on the surface immediately.
- Ø Avoid running cables or cords on the walkways.
- Ø Used ladder safely.
- Ø Ensure scaffolds are erected by a competent person and follow a tagging system.
- Ø Wear proper footwear.
- Ø Do not jump from an elevated surface.
- Ø Floor opening shall be covered and barricaded.
- Ø Don't do horseplay.
- Ø Use Safety harness if working at height (more than 1.8 meters).

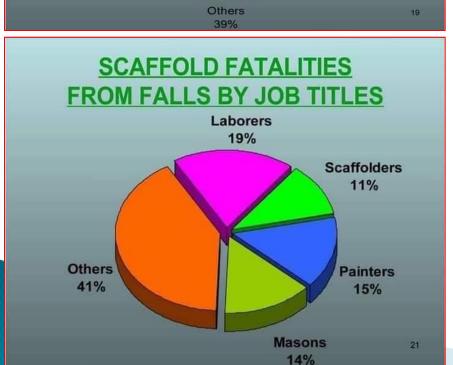


Top Rail, Mid Rail & Toe Board Measurement.

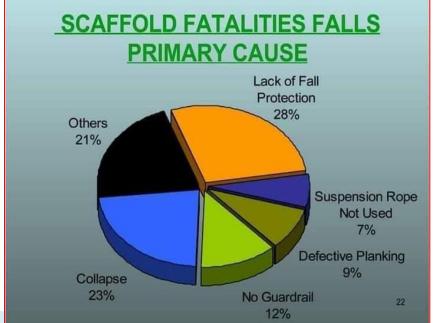


Accident & Injury cause history of scaffolding









Scaffolding Tagging

SCAFFOLD TAGGING

- All scaffold shall be tagged "COMPLETE", "INCOMPLETE", "DANGER - DO NOT USE".
- What makes an "INCOMPLETE" scaffold?
 - Missing guardrails
 - Incomplete decking
- What makes a "DANGER DO NOT USE" scaffold?
 - Cracks in frame
 - Excessive rust
 - Seaffeld nas wissing parts

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	CHSA Scafford Tag Ref 29 CPR 1910-28 caffold inspection Tag pleted by a competent Person		
Scattold No & Location			
SCAFFO	LD LOADING DETAILS		
Light Duty	Not exceed 25 p.s.f 09 x 6 (Bay & Width)		
Medium Duty	Not exceed 50 p.s.f 98 x 6 (Bay & Width)		
Heavy Duty	Not exceed 75 p.s.f 6.6 x 6 (Bay & Width)		
Inspected by			
Signature			
Date & Time of first Inspection			
Scaf	fold Check List		
Base	Toe boards		
Standards	Tope Rail /Midrail		
Ledgers	Access		
Transoms	Face Brace		
Platforms	Ties		

Scaffold Inspection Tag
To be completed by a competent Person

DATE	TIME	PRINT NAME	SIGNED

Power Line Clearance

Scaffold Use

Maintain clearance from power lines as follows:

- -Insulated lines : less than 300 volts -3 feet
- --300 volts to 50kv-10 feet
- --More than 50 KV -10 feet plus 4 inches for each 1KV over 50 KV.

Installation Check

SCAFFOLD TRAINING

- Planks are scaffold grade lumber or equivalent manufactured
- Guardrails & Midrails
- Toeboards
- Mesh if material higher than toeboards
- Ladder Access
- Inspected every work shift by competent person
- Frames secured with pins

SCAFFOLD TRAINING

Check for proper installation of:

- Mudsills, Base Plates, Foundation.
- Posts Plumb
- Posts braced by cross braces, horizontal, and diagonal as required
- Platforms fully planked
- Planks secured

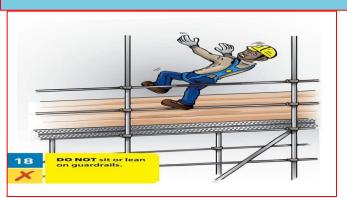




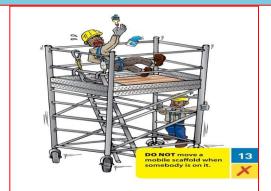
SCAFFOLD TRAINING

- Height less than 4 times minimum base
- Scaffold tied to structure if higher than above
- Caster brakes locked before use
- Casters pinned into frame leg

Scaffolding Hazard

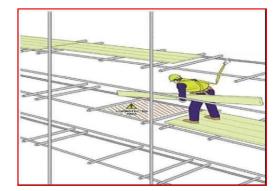


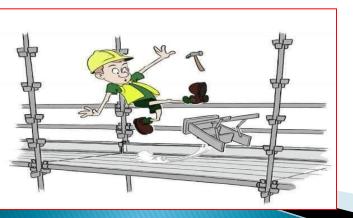




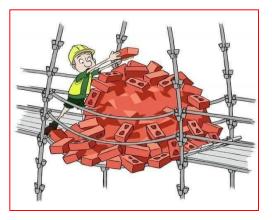












Unsafe Lifting work (Work at height)

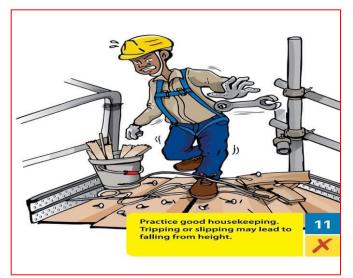












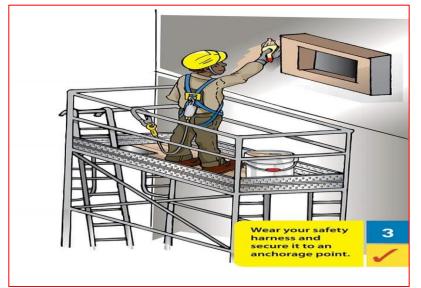
Unsafe Lifting work (Work at height)











Workplace Fire Safety Tips & Fire Orders

Workplace Fire Safety Tips

Identify the fire hazards

Identify the people at risk

Evaluate and reduce hazards

Set up an emergency plan and conduct training

Review risk assesments

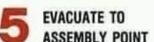


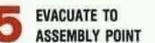
STANDARD **FIRE ORDERS**



CALL THE FIRE AND RESCUE SERVICE

ATTACK FIRE IF SAFE TO DO SO





REMAIN AT ASSEMBLY POINT AND **ENSURE EVERYBODY IS ACCOUNTED FOR**















