

Unit 201: Health and safety in building services engineering

Outcome 5 Safety requirements for using access equipment

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Working and heights



- Step ladders
- Ladders
- Roof ladders
- Trestle scaffold
- Tower scaffold (mobile)
- Scaffold (fixed)
- Elevated platforms















Working and heights

The Working at Height Regulations requires that before work starts:

Employers consider all options that are available, including options other than working at heights; removing components and working at ground level; using specialist companies.



Ladders

Class 1 – Industrial – up to 175kg

Class 2 – Commercial – up to 150kg

Class 3 – Domestic – up to 125kg

Manufactured from wood, aluminium, fibreglass (electricians colour-coded yellow).

Ladders are for short duration work only – 30 mins max.

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Ladders





Video link: http://www.youtube.com/watch ?v=bRV4d9LCawU



Ladders

- Types
- Raising and lowering
- Securing
- Lifting and carrying
- Storing
- Inspecting
- Safe working.

Ladders

- Stand on a firm and even base
- Set at the correct **angle**, 75⁰ or 4 up: 1 out
- Watch out for overhead cables
- Beware of wet, icy or greasy rungs
- Do not use damaged ladders
- Lash the top of the ladder
- Anchor the base of the ladder
- The top of the ladder should extend 1.07m past the top of the working platform (4-5 rungs clear)
- Never overload a ladder.



Scaffold towers

Static:

Small section of tubular scaffold in fixed position.

Mobile:

- Light work for short durations
- Lockable wheel
- Do not move with equipment or people still on platform
- Maximum height is three times the outrigger
- Always read the manufacturer's instructions (MIs).







Fixed scaffold (tubular)

Independent:

It is independent to the building with two standards.

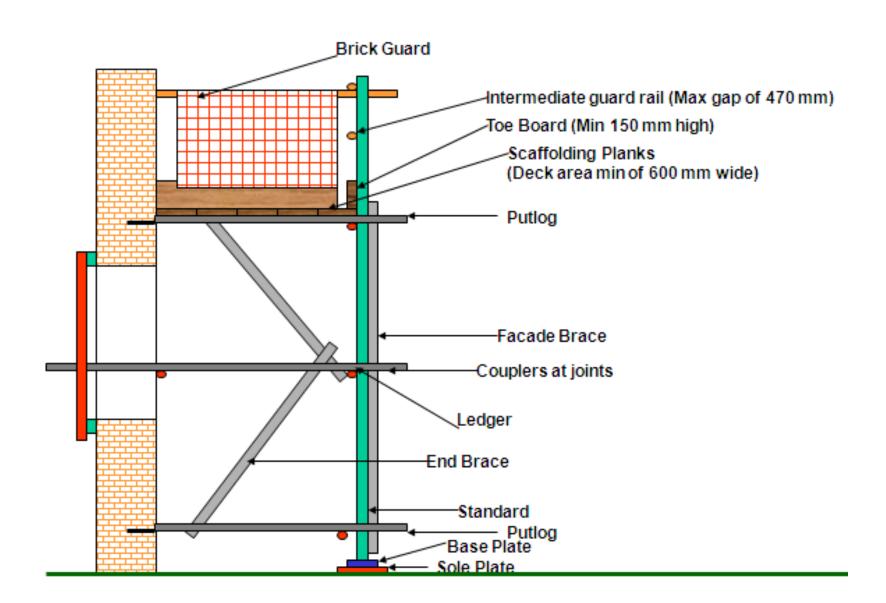
Putlog:

- Gains support from building and is used on new builds
- The spade of the putlog rests in the brickwork.



Scaffolds from Singapore and India





- Working platform
- Toe board 150mm
- Interim guard 470mm
- Hand rail 910mm
- Brick guards
- Close board decking
- Soleplate to spread force
- Inspect before use each time; fully inspected every seven days; installed by trained operatives.



Mobile platforms

Mobile Elevating Work Platforms

These provide convenient access without scaffolding.

- Training is essential
- Gate closed
- Operating weights
- Weather
- Stability
- Signs.