

Good Practices on Safe Use of Ladder

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Agenda





Use of Ladders

Ladders

- ➤ a piece of equipment consisting of repeated bars or steps (rungs) between two upright lengths of metal, wood, or rope, used for climbing up or down to facilitate a work activity.
- ➤ Common piece of equipment that can be found at home or at the workplace.
- > Relatively low-cost piece of equipment that is readily available
- >So commonly used that people can sometimes forget the risks of using them





- Location of work
- Height/Depth that the person is required to reach
- Availability of other forms of access systems
- Type of work being carried out



Location of work



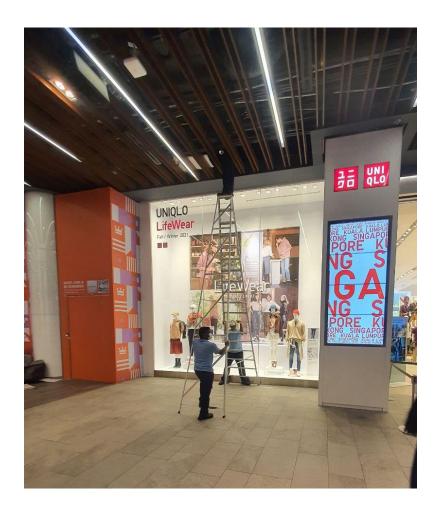
Cantilever Platform

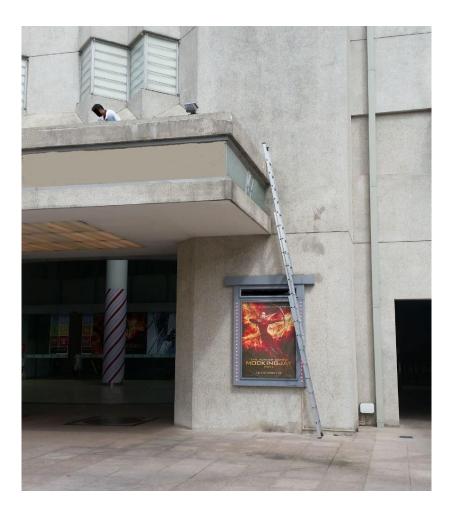


Above the guardrail next to the edge of the building



Height/Depth that the person is required to reach







Availability of other forms of access systems







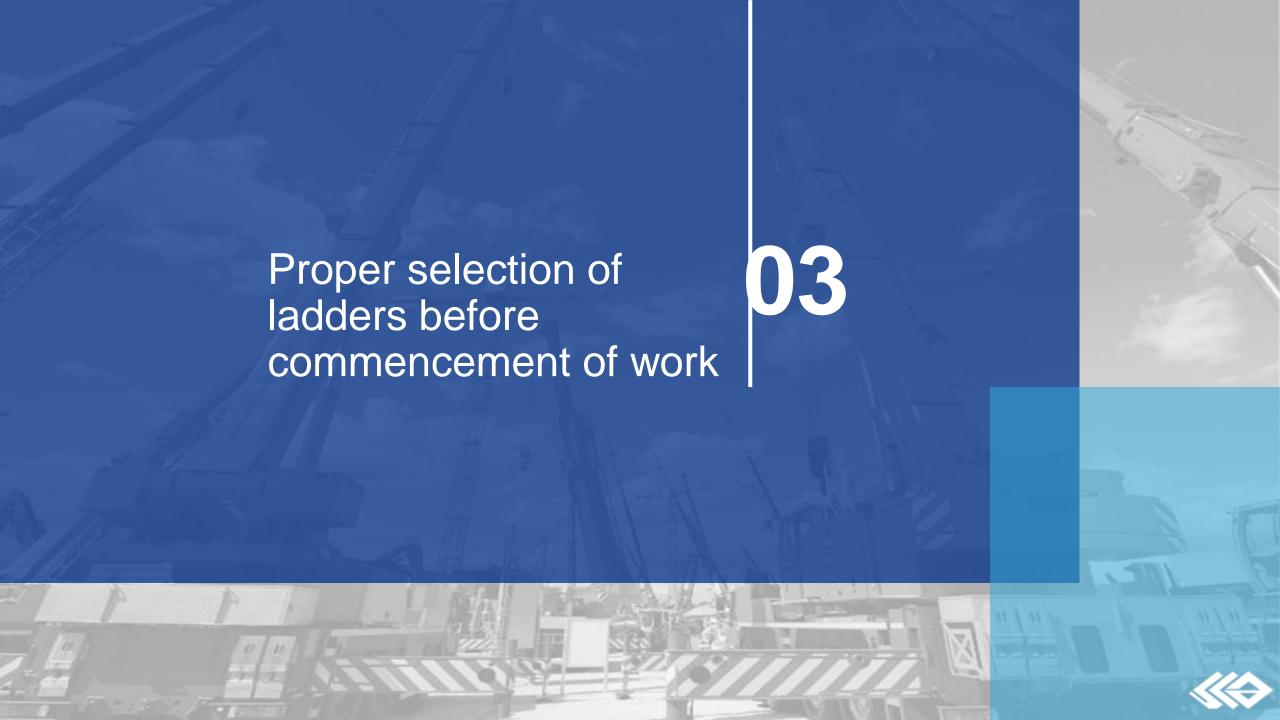


Type of work being carried out









- Before commencement of work, carry out a risk assessment of the work activity to identify the hazards.
- Ensure that all risk levels are reduced to as low as reasonably practicable using the hierarchy of control.
- Brief all parties involved on the hazards identified and the control measures
- Ensure the personnel carrying out the work are trained on the safe use of ladder



• Different types of ladders available



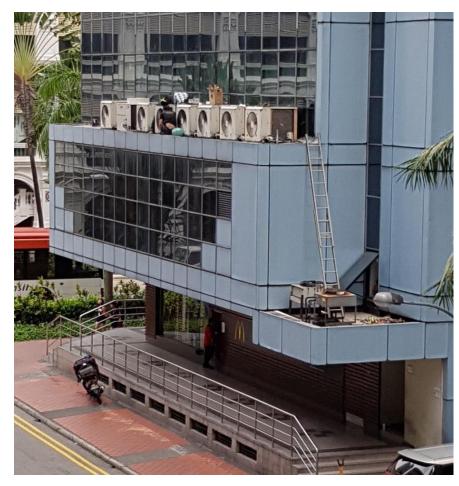
Selection of ladders

- ➤ Purpose Used for access or work
- ➤ Height of ladder needed
- ➤ Capacity of the ladder
- ➤ Material of the ladder Metal, Fiberglass etc.





Access or work





Facilitate work



Access

Height of the ladder needed

		Step	Highest Reach according to user's height			
	Model		140+cm	150+cm	160+cm	170+cm
Cal Fahr	AAMS04	4	180cm	195cm	210cm	225cm
79 ALLE	AAMS05	5	210cm	225cm	240cm	255cm
	AAMS06	6	240cm	255cm	270cm	285cm
	AAMS07	7	270cm	285cm	300cm	315cm
	AAMS08	8	300cm	315cm	330cm	345cm
	AAMS09	9	330cm	345cm	360cm	375cm
H.	AAMS10	10	360cm	375cm	390cm	405cm
SaLadder	AAMS11	11	390cm	405cm	420cm	435cm
/ Leom		12	420cm	435cm	450cm	465cm



Capacity of the ladder

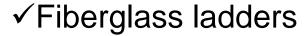
Duty Rating Chart

MAX. LOAD CAPACITY	RATED USE	CSA	ANSI
200 lbs (≈91kg)	Light Duty Household Designed for infrequent household chores, cleaning, painting, etc.	Grade 3	Type III
225 lbs (≈102kg)	Medium Duty Commercial Designed for moderate use by homeowners, painters, handymen, etc.	Grade 2	Type II
250 lbs (≈113kg)	Heavy Duty Industrial Designed for use by contractors in maintenance construction and industrial applications	Grade 1	Type I
300 lbs (≈136kg)	Extra Heavy Duty Designed for frequent use in maintenance, construction and industrial applications.	Grade 1	Type 1A
375 lbs (≈170kg)	Special Heavy Duty Designed for the most demanding industrial and construction applications.	Grade 1	Type 1AA



- Material of Ladder
- ✓ Aluminum Ladders
 - ➤ Light and portable
 - ➤ Not as durable
 - Conducts heat and electricity
 - > Not to be used near
 - Electricity
 - Corrosives
 - Flammables





- > Durable and has superior resistance to weather
- > Resistant to heat and electricity
- ➤ Heavy and not as portable







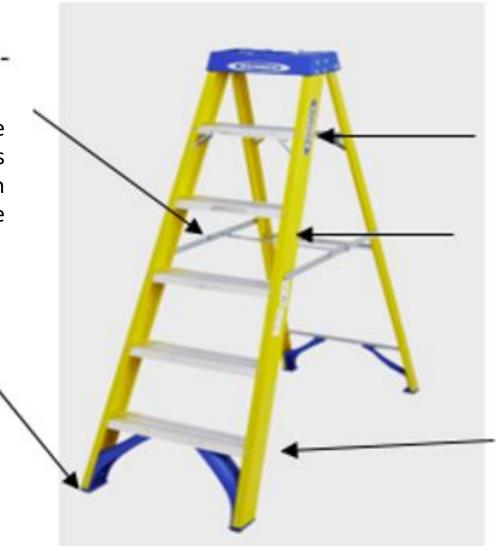
Pre-use check of ladder

Hingejoint

Hinge-joints must be free from defect and is able to lock the ladder in place during use

Feet

Ensure feet are in place and not damaged or worn out



Platform

Ensure platform is not damaged or buckled

Stiles

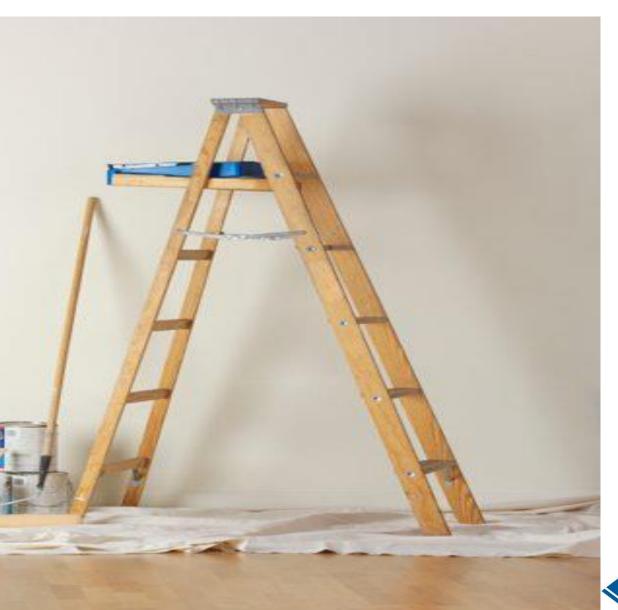
Ensure stiles are not damaged or bent

Rung/Step

Ensure rungs are not damaged, bent, missing or loose and should be clean

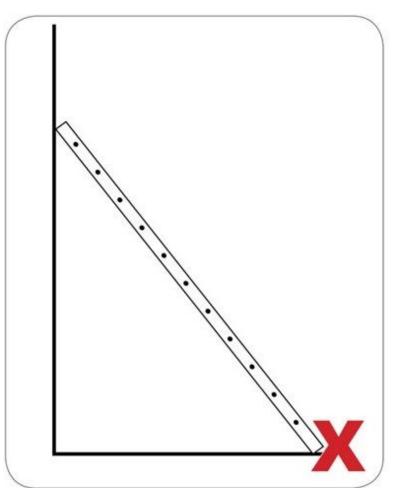


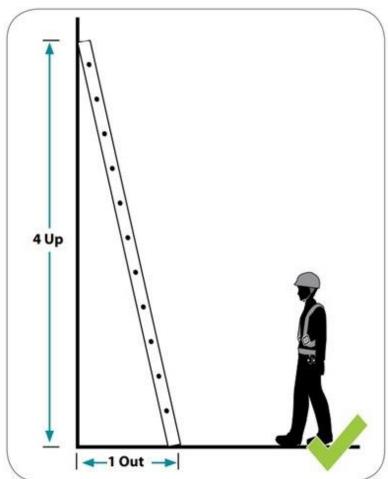
- ✓ Ensure ladder is on flat and firm level ground
- ✓ Do not place ladder on unstable surfaces such as pallets, drums or cement bags to gain more height
- ✓ Do not set up a ladder in front of a door
- ✓ Do not lean ladders against surfaces that is not strong enough to take your weight i.e., glass windows
- ✓ Never fasten 2 ladders together
- Ensure spreaders on stepladders are fully extended and locked in place





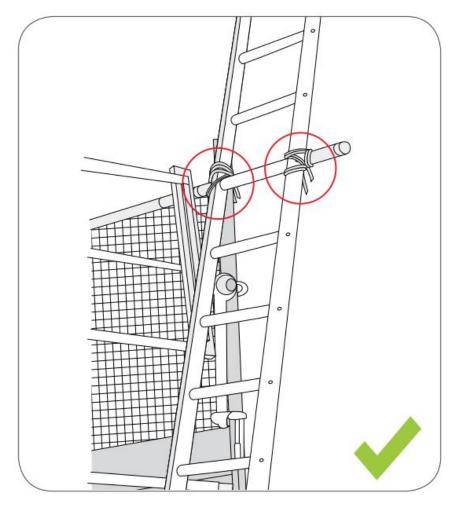
- ✓ Ladders leaning against a structure must be placed on level ground
- ✓ The distance of the base should be placed approximately a quarter of the height away from the structure



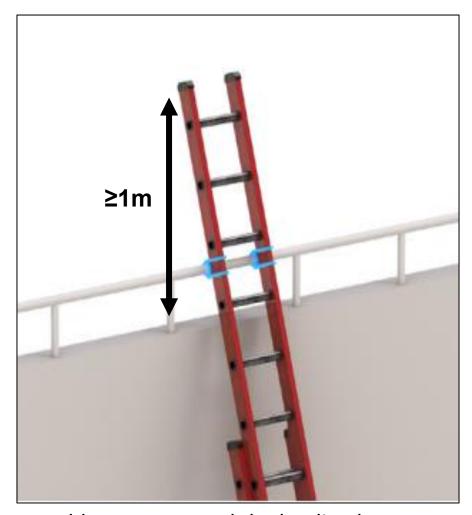


The ratio of the height to the base for a correctly positioned ladder is 4:1.



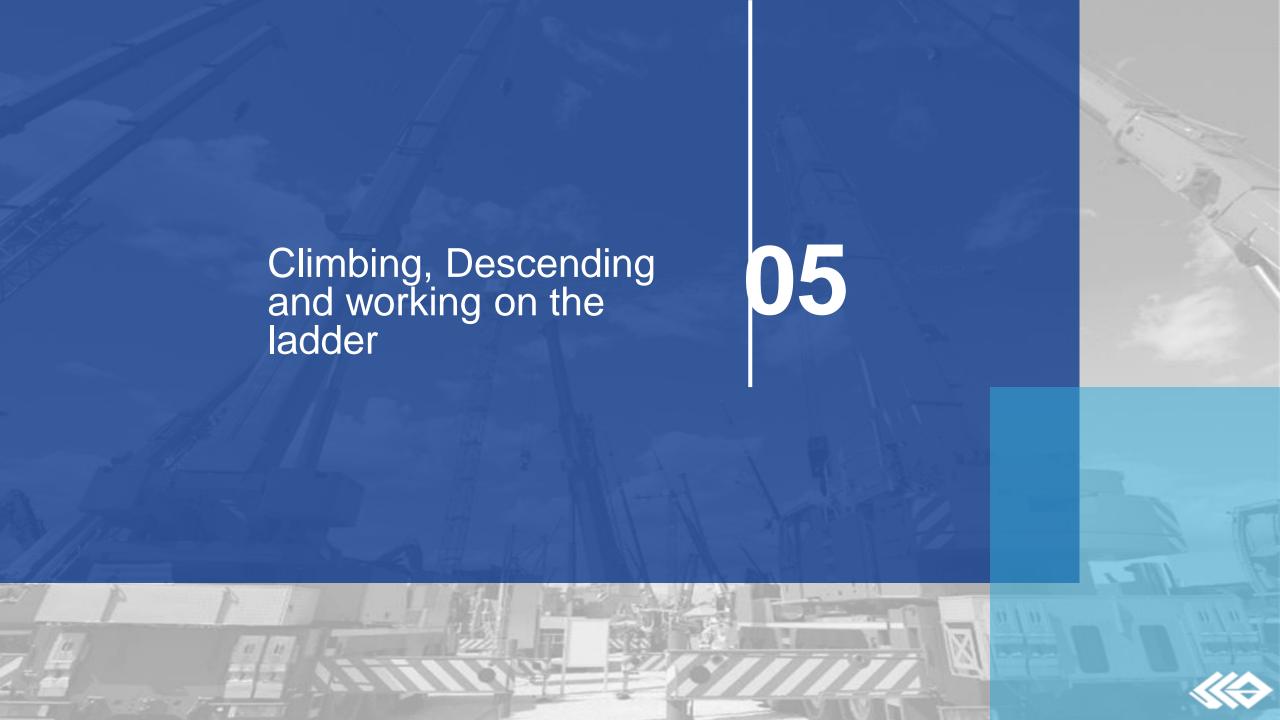


Access ladders with secure handhold and both stiles tied



Ladder must exceed the landing by more than 1m

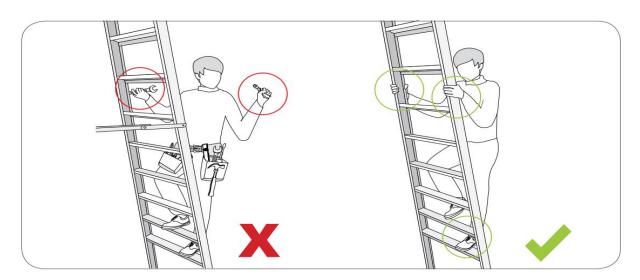




Climbing, Descending and working on the ladder

Climbing/Descending the ladder

- ✓ Check your shoes before climbing the ladder
- ✓ Do not carry any tools with your hands while climbing the ladder
- ✓ Always maintain 3-point contact with ladder
- ✓ Face the ladder while climbing or descending the ladder
- ✓ Only allow one person on a ladder at a time
- ✓ Do not climb above the top 3 rungs of a stepladder
- ✓ DO NOT climb a ladder if you are very tired, feeling ill, on medication that affects alertness or balance, or if you are impaired by alcohol or drugs.





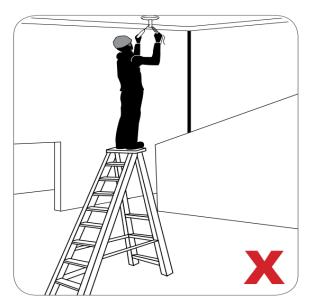


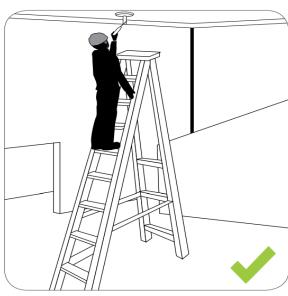


Climbing, Descending and working on the ladder

Working on ladder

- ✓ Do not stand on the top 3 rungs of the ladder
- ✓ Do not overreach ensure body stay within the stiles and feet stays on the same rung throughout the task
- ✓ Do not have more than one person on a ladder at a time
- ✓ Do not overload the ladder
- ✓ Cordon off area below the ladder









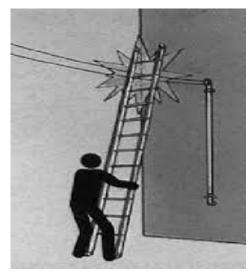


Climbing, Descending and working on the ladder

Working on ladder

- ✓ Do not work on ladders for extended periods of time (maximum recommended 10-15 mins)
- ✓ Do not try and repair or use damaged ladders
- ✓ Do not work near electrical conductors with aluminum ladders
- ✓ Do not use ladders outdoors during adverse weather













Maintenance and Storage of Ladders

- Maintenance of Ladders
 - √ Check joints
 - √ Test hardware and fittings
 - ✓ Lubricate moveable parts
 - ✓ Make sure safety feet are in good condition
 - ✓ Clean rungs and steps after use





Maintenance and Storage of Ladders

- Storage of Ladders
 - ✓ Store securely, out of the way
 - ✓ Store short stepladders vertically
 - ✓ Store straight ladders flat or hang horizontally
 - ✓ Never store materials on top of a ladder
 - √ Keep in a well-ventilated area









Key Points to Remember

- ☑Always choose the right ladder for the job and inspect before use.
- ✓ Set up ladders correctly and climb safely.
- ☑Be careful when working on ladders and avoid overreaching.

WE HAVE THE POWER TO PREVENT ACCIDENTS



