

Henry's Ladders

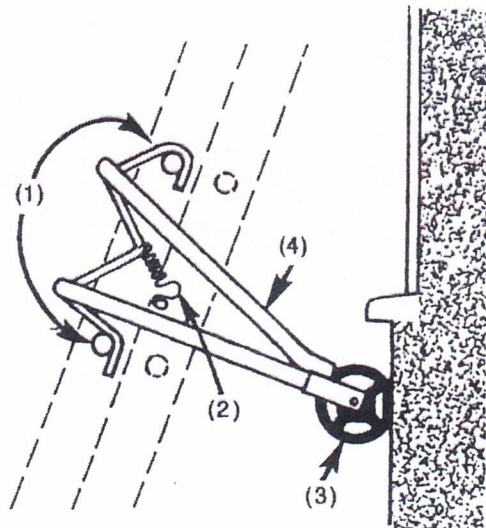
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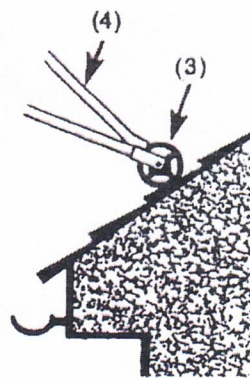
MICROLITE INSTRUCTIONS

1. LADDERFIX MICROLITE

is suitable for use with all popular patterns of ladder which are properly erected on firm level ground or other proper base.



LADDERFIX MICROLITE
on walls.



LADDERFIX MICROLITE
on sloping roofs.

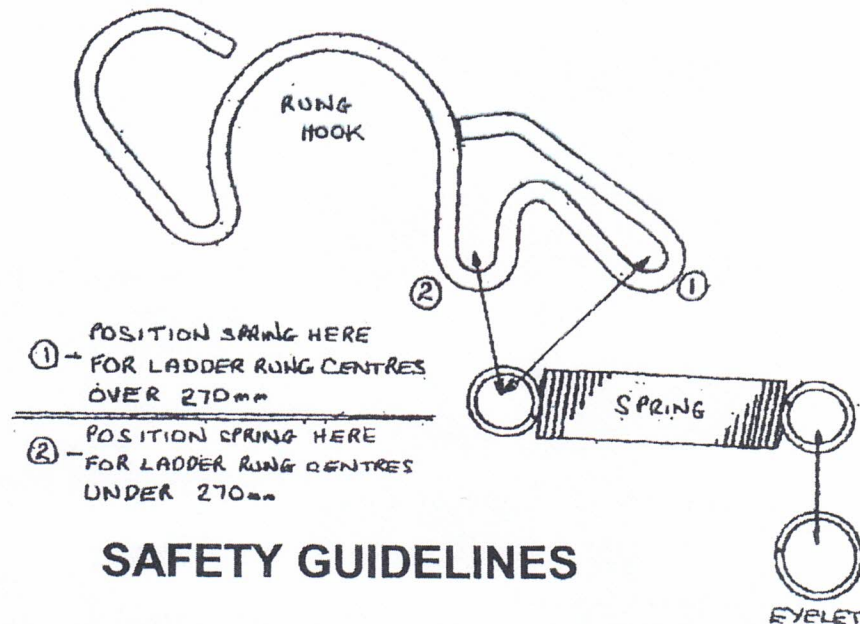
WARNING

READ "SAFETY GUIDELINES" OVERLEAF IN CONJUNCTION
WITH INSTRUCTIONS OVERLEAF

LADDERFIX MICROLITE

1. **INSPECT.** Clean Ladderfix Compact (particularly corrosive materials such as cement) and check condition.
 - 1.1 No damage such as dents, splits, holes, excessive wear, corrosion or gross distortion; minor distortion is acceptable providing Microlite sits evenly and has not been rebent after damage.
 - 1.2 Both wheels are secure and undamaged and the tyres are clean and not loose, swollen, split or excessively worn.
 - 1.3 Both spring clip assemblies are secure.
 - 1.4 No repairs of any sort have been made.
2. **FIT** Ladderfix Microlite while ladder is on the ground – engage hooks (1) **over** two rungs near the top; engage spring clips (2) **under** the lower of the two rungs (some models have long and short settings – choose the one that gives positive grip with least tension).
3. **FOLLOW SAFETY GUIDELINES.**
4. **UP-END** ladder and extend to required height. If required, incline ladder somewhat more steeply than 1 in 4, check stability, stand on and roll top section up the wall.
5. **LADDER ANGLE.** Adjust to 1 in 4 and rest both wheels (3) firmly in position.
6. **WINDOWS.** Microlite is preferably hooked on the second and third rungs below the top and rested just below a window sill.
7. **WINDOW CLEANING.** Hook Microlite on the second and third rungs below the top and rest both wheels on top of the window sill and up against the bottom of the window frame.
8. **GUTTERS.** Microlite may be rested underneath the gutter. Alternatively, wheels can be rested firmly on the sloping roof above (see fig)
9. **SLOPING ROOF ACCESS.** Hook Microlite on or below the third and fourth rungs for a minimum handhold of 1 metre. Locate Microlite over to one side of the ladder for easier stepping off. Position both wheels on the roof so that the ladder is supported just clear of the gutter and the bottom is not too close to the wall (angle at least 1 in 4). Hook a roof ladder over the roof ridge and to stop its bottom sliding sideways, tie it to Microlite.
10. **FLAT ROOF ACCESS.** A minimum handhold of 1 metre above the roof and the stepping off rung is essential – hook Microlite on the ladder below the third and fourth rungs from the top if necessary. Rest the ladder stiles against the building if possible avoid gutters to prevent damaging them. To resist slip, keep the projecting limbs of Microlite as close over the roof top as possible.
11. **CARE.** Microlite is designed for **trade and industrial** use but it is **NOT** indestructible.

- DO NOT jump or bounce your ladder top,
- DO NOT stand on the limbs of the Compact.
- DO NOT climb beyond the bottom hooks.
- DO NOT "bomb" your ladder.
- DO NOT leave your ladder unattended to get blown over.
- CLEAN OFF DEBRIS immediately, particularly corrosive materials such as cement and plaster.



SAFETY GUIDELINES

THE WORK AT HEIGHT REGULATIONS 2005 should be observed at all times

SECURE ladders at the top with the appropriate Ladderfix model or by tying.

CAUTION. Ladderfix products are convenient and safe providing that they and your ladder are in good condition and they are used in accordance with safe codes of practice.

FURTHER USEFUL PRECAUTIONS

WINDS. Avoid using ladders if winds are more severe than a light breeze and be prepared for sudden gusts.

CARRYING LADDERS. Keep the ladder clear of the ground and obstructions, hesitate at steps, doorways and corners, and look in all directions before changing direction.

LOCATION. Do not erect ladder at doorways without taking particular precautions – ESPECIALLY FIRE EXITS. Make sure that ladder can be seen and avoided by pedestrians and vehicles. Corners are particularly risky. Do not forget about blind people and children.

UP-ENDING. Close the ladder as much as possible. Check for overhead cables, clothes lines, trees and other overhead obstructions, then check that the ground is reasonably clear. Because you may have repositioned the ladder, do the same when bringing the ladder down. Place bottom end against wall or kerb, lift the top end and walk forward holding the middle of each rung in turn, keeping the arms stretched up high. When the top of the ladder is at rest, bring the bottom outwards.

STABLE BASE. Do not erect on a box or a free standing tower.

LADDER ANGLE. Incline ladder at 1 in 4, i.e. 1 going 4 rising. Do not alter to compensate for poor site conditions.

OUTBUILDINGS AND SHALLOW ANGLES. Do not use ladder at a shallow angle to get to a window above an outbuilding, staking a ladder does not prevent ladder stress.

LADDER LEVEL.. Both bottom stile ends **MUST BE** on a firm level surface and the rungs should be more or less horizontal. If the ground slopes sideways use Ladderfix Safety Base or Leveliser.

Do not use loose packing.

SLIPPERY GROUND. At angles around 1 in 4, normal exterior level surfaces even when wet are not usually a problem, especially if rubber feet are used. **BUT** backward slopes, ice, oil, moss and polish are dangerous. Clean up all slippery material under and around not forgetting that you also might slip stepping on and off.
Clean and inspect Ladder feet regularly

SOFT GROUND. When working on soft ground or flower beds, put down a stout board with a suitable slip resistant surface.

RUNGS AND FOOTWEAR. Make sure that they are free of slippery material. Footwear should have a proper arch to engage the rung. Soles should be substantial to avoid discomfort.

Toes should be reinforced.

CLIMBING. Have at least one hand free to hold on. If you are climbing "one handed" hold the stile.

OVERLOADING. Do not exceed limits or allow more than one person on at a time.

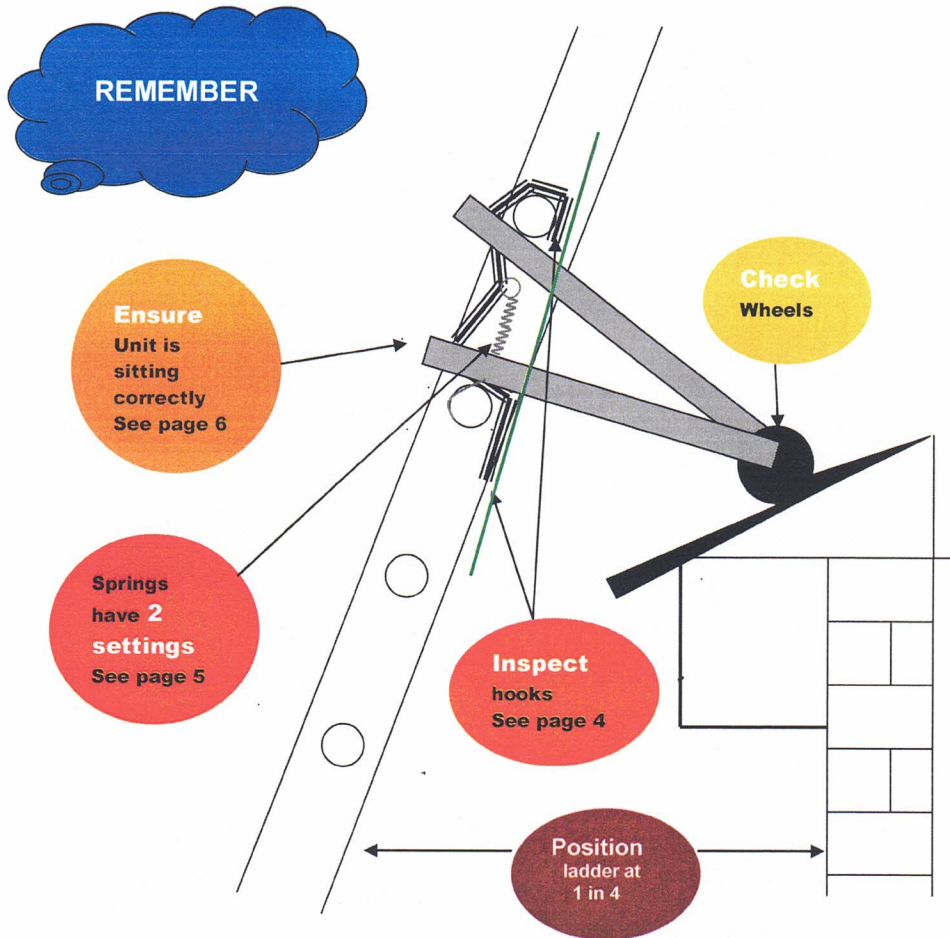
HANDHOLD. Do not climb higher than 1 metre below the ladder top.

OVERREACHING. Do not allow both shoulders beyond one side of the ladder.

CAUTION. These **SAFETY GUIDELINES** are not an exhaustive list of precautions. They should not be taken as a substitute for any additional measures found necessary on site, nor do they guarantee that the use of a ladder is safe without regard to local conditions and are always subject to an employers risk assessment.

LADDERFIX MICROLITE INSTRUCTIONS

Read instruction leaflet and safety guidelines carefully.
All images and drawings are not to scale.



DO

- Read** instructions
- Inspect** equipment Regularly
- Adjust** springs according to rung pitch
- Ensure** unit is secure and correctly positioned
- Observe** working at height regulations at all times
- Clean** off debris

DO NOT

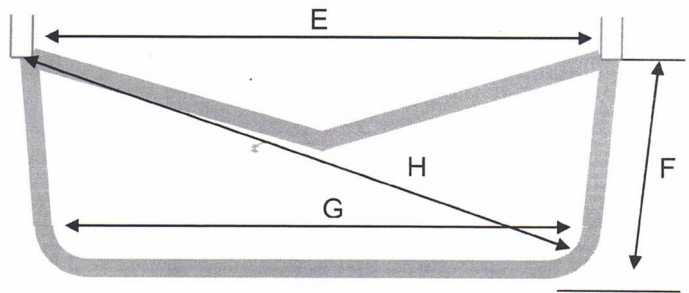
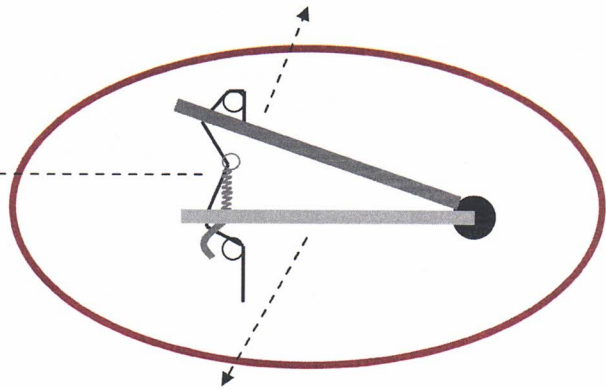
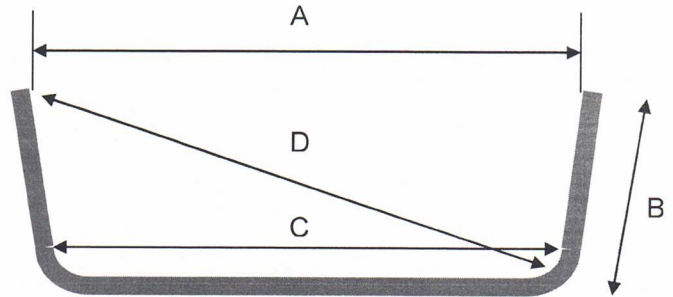
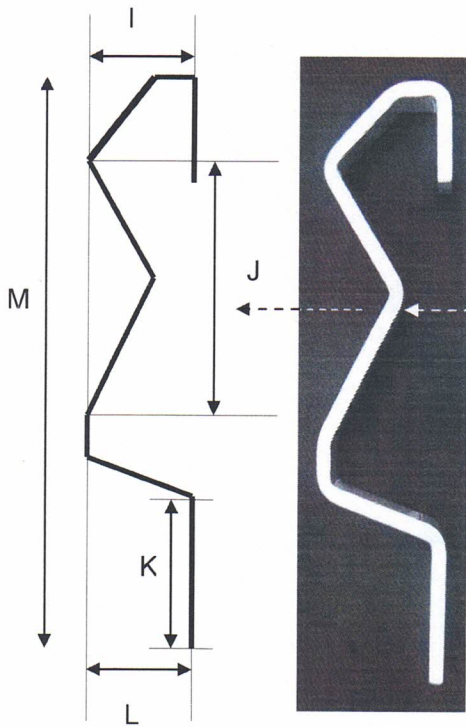
- Re-bend** the Microlite
- Jump or bounce** your ladder top
- Stand on the limbs** of the Microlite
- Climb beyond** the bottom of the hooks
- Bomb or drop** your ladder - see hook inspection page 4
- Leave your ladder unattended** to get knocked or blown over

Dimensions and manufacturing specifications

All drawings not to scale

Plan of top bar	
A 585 mm	B 375 mm
C 530 mm	D 620 mm

Side elevation of hook	
I 85 mm	J 180 mm
K 80 mm	L 350 mm
M 350 mm	



Plan of bottom bar	
E 640mm	F 325mm
G 578mm	H 630mm

Technical detail:

Tube: 1 inch diameter x 1.6mm wall (16g)
Hooks: 3/4 inch x 3/8 inch
Wheel Brackets: 1 1/4 inch x 3/16 inch

All aluminium to grade 6063. T4.

All welds Argon and Tig welded.

Springs are galvanised spring steel.

Inspection

Take care of your Microlite. The Microlite is designed for trade and industrial use but is not indestructible.

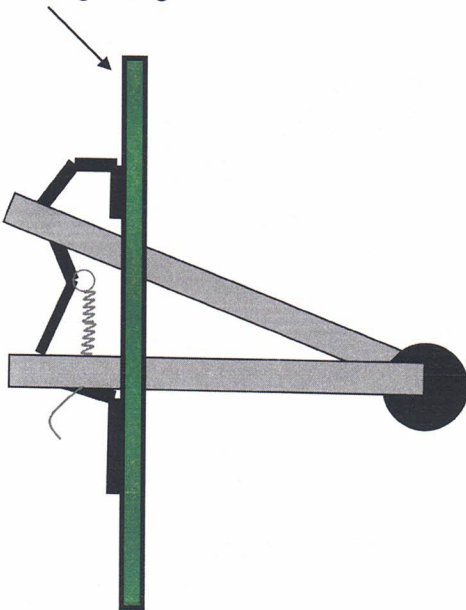
Clean the Microlite. Remove all debris particularly corrosive materials such as cements and plaster.

Check

- 1) There is no damage such as dents, splits, holes, excessive wear or gross distortion. Very minor distortion is acceptable as long as the Microlite sits evenly and has not been re-bent after damage. **See dimensions on page 2.**
- 2) Both wheels are secure and undamaged and the tyres are clean and not loose, swollen or excessively worn.
- 3) Both spring clip assemblies are secure and springs are not stretched.
- 4) No repairs of any sort have been made.
- 5) Both hooks are in line **see below.** The bottom hook is especially susceptible to damage if the ladder is dropped/bombed with the Microlite in place.

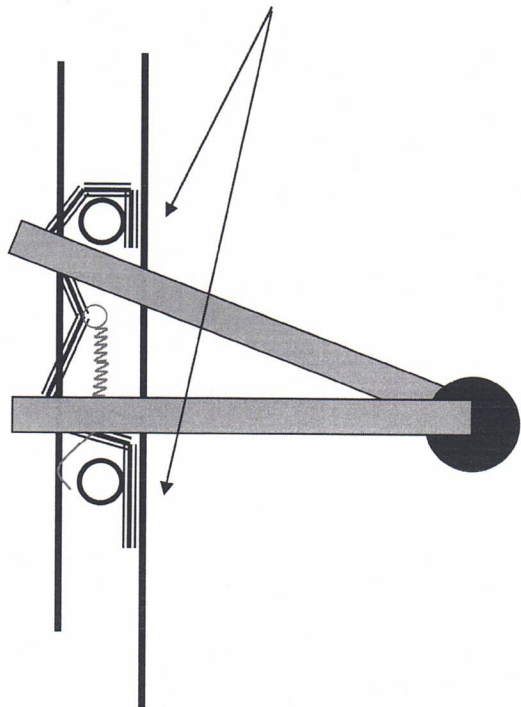
Inspect hooks

Place a straight edge (ruler or other) against hook ends. Ensure that bottom and top hooks run in line along the straight edge.



Inspect hooks

Push both hooks against the ladder rungs. The hooks should run parallel with the ladder stile.



Fitting

The Ladderfix Microlite is a class one ladder stand off suitable for use with all popular patterns of ladder (**except C section ladders**) which are properly erected On firm level ground or with a proper safety base.

Fit the Microlite while the **ladder is on the ground**.

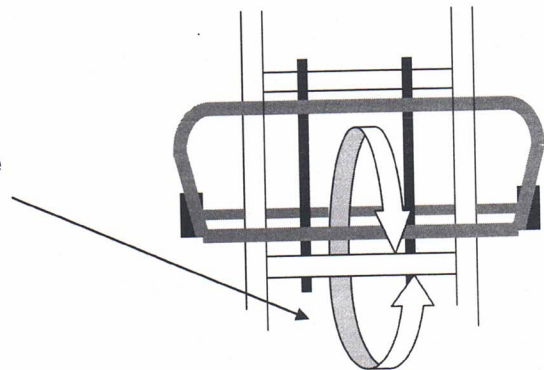
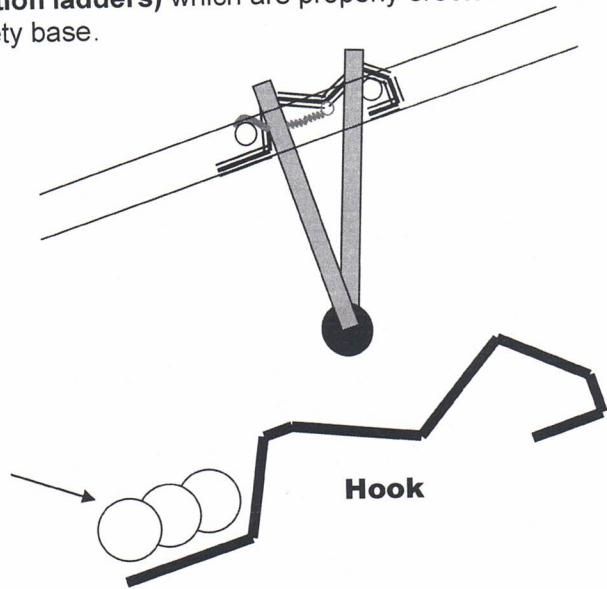
Feed the ladder through the Microlite.

Engage hooks over two rungs. See **erection pages 6 and 7** for the correct rung positions.

The **80mm lower hook** allows the Microlite to fit rung pitches from **250mm to 290mm**. The position of the rung on the hook will vary according to the rung pitch.

Engage **spring clips** under the lower of the two rungs. Attach with the back of the clips facing out to ensure that springs do not get knocked off.

Working above 10 metres. The Microlite should be secured with a ratchet strap when accessing a roof above 10 metres. Wrap the strap around the lower rung and the lower back bar of the Microlite. Tighten to secure.

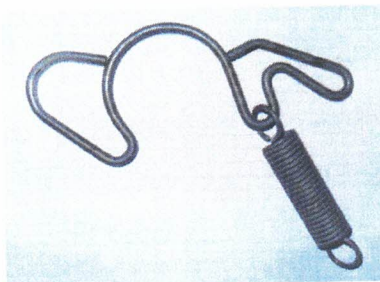


Important

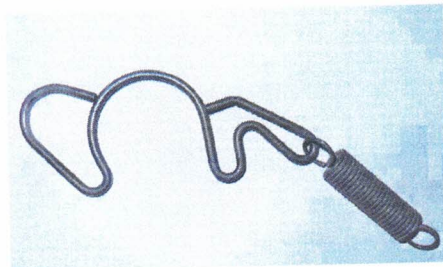
Spring adjustment

There are **two settings** for the spring assembly. Choose the one that gives positive grip with the least tension.

1. Position spring here for ladder rung pitches under 270mm



2. Position spring here for ladder rung pitches over 270mm



Erection

The Microlite is designed to rest safely on **walls, window sills, sloping and flat roofs.**

After fitting the Microlite

Extend the ladder to required height and **up-end**. Alternatively rest the Microlite on the wall. Incline the ladder more steeply than 1 in 4. Check stability then extend and roll the top section of the ladder up the wall.

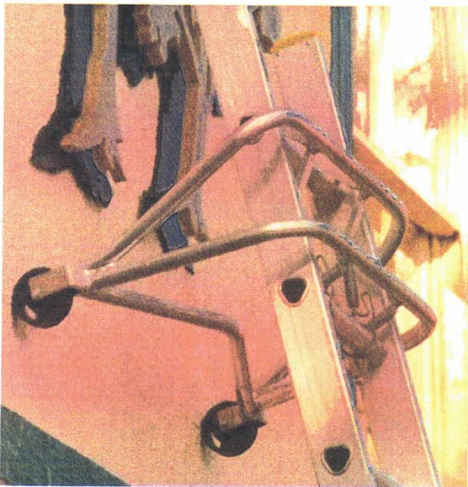
Ladder angle The ladder should be set at an angle of 1 in 4.

A tolerance of plus or minus 5 degrees is acceptable for the Microlite to still operate safely.

If tying off the ladder using a ratchet strap. **DO NOT over tighten** as this can inadvertently change the angle of the ladder, impose undue stress and affect the correct sitting position of the Microlite.

The use of a luggage strap instead of a ratchet strap stops the risk of over tightening.

WALLS, WINDOWS AND WINDOW CLEANING



Walls Hook the Microlite over rungs 1 and 2 of the ladder.

Extend, up-end, check angle and rest both wheels firmly in position.

Windows

Either

Hook the Microlite over rungs 2 and 3. Extend, up-end, check angle and rest both wheels firmly in position just below window sill.

Or

Hook the Microlite over rungs 2 and 3. Extend, up-end, check angle and rest both wheels firmly on top of the window sill and up against the bottom of the window frame

SLOPING ROOF, FLAT ROOF AND GUTTERS



Ensure that the ladder stiles are touching the lower bar.

Sloping roof

Hook the Microlite on rungs 3 and 4 or rungs 4 and 5 of the ladder, creating a minimum handhold of 1 metre.

Position both wheels on the roof so that the ladder is supported just clear of the gutter.

Adjust ladder angle and allow the Microlite to settle into place, **making sure that the ladder stiles are touching the lower back bar of the Microlite.** This ensures the correct working position of the Microlite.

When a roof ladder is securely hooked in place, tie it to the Microlite.

SLOPING ROOF, FLAT ROOF AND GUTTERS continued

Flat roof Hook Microlite on rungs 3 and 4 or rungs 4 and 5 of the ladder, creating a minimum handhold of 1 metre.

Position both wheels on the roof so that the ladder is **supported clear of the gutter or edge.**

Adjust ladder angle and allow the Microlite to settle into place.

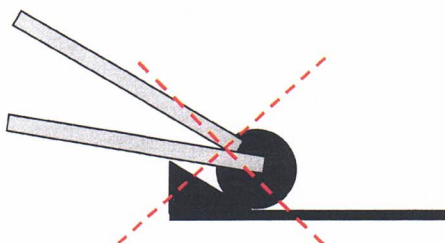
Make sure that the ladder stiles are touching the lower back bar of the Microlite. This ensures the correct working position of the Microlite.

Important

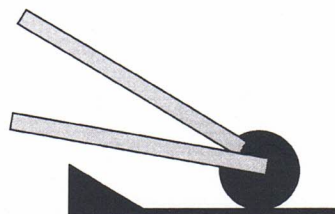
Keep the projecting limbs of the Microlite as far over the roof top as possible without touching the edge

Do not allow the wheels to get trapped in the angle of the reverse incline or lip at the edge of the flat roof

Check that the top hook is fully engaged before climbing



Wrong flat roof position



Right flat roof position

Gutters When required to access or clean a gutter, follow the procedure for sloping roof. See page 6. Although the Microlite can be hooked on rungs 2 and 3 if preferred.



Additional Safety Guidelines

The Work at Height Regulations 2005 should be observed at all times.

Secure ladders at the top with the appropriate Ladderfix model or by tying.

Caution. Ladderfix products are convenient and safe providing that they and your ladder are in good condition and they are used in accordance with safe codes of practice.

Further Useful Precautions

Winds. Avoid using ladders if winds are more severe than a light breeze and be prepared for sudden gusts.

Carrying Ladders. Keep the ladder clear of the ground and obstructions, hesitate at steps, doorways and corners, and look in all directions before changing direction.

Location. Do not erect ladder at doorways without taking particular precautions – **especially fire exits**. Make sure that the ladder can be seen and avoided by pedestrians and vehicles. Corners are particularly risky. Do not forget about blind people and children.

Up-Ending. Close the ladder as much as possible. Check for overhead cables, clothes lines, trees and other overhead obstructions, then check that the ground is reasonably clear. Because you may have repositioned the ladder, do the same when bringing the ladder down. Place the bottom end against wall or kerb, lift the top end and walk forward holding the middle of each rung in turn, keeping the arms stretched up high. When the top of the ladder is at rest, bring the bottom outwards.

Stable Base. Do not erect on a box or a free standing tower.

Ladder Angle. Incline ladder at 1 in 4, i.e. 1 going 4 rising. Do not alter to compensate for poor site conditions.

Outbuildings and Shallow Angles. Do not use ladder at a shallow angle to get to a window above an outbuilding, staking a ladder does not prevent ladder stress.

Ladder Level. Both bottom stile ends **must be** on a firm level surface and the rungs should be more or less horizontal. If the ground slopes sideways use Ladderfix Safety Base or Leveliser.

Do not use loose packing.

Slippery Ground. At angles around 1 in 4, normal exterior level surfaces even when wet are not usually a problem, especially if rubber feet are used. **But** backward slopes, ice, oil, moss and polish are dangerous. Clean up all slippery material under and around, not forgetting that you also might slip stepping on and off.

Clean and inspect ladder feet regularly.

Soft Ground. When working on soft ground or flower beds, put down a stout board with a suitable slip resistant surface.

Rungs and Footwear. Make sure that they are free of slippery material. Footwear should have a proper arch to engage the rung. Soles should be substantial to avoid discomfort. Toes should be reinforced.

Climbing. Have at least one hand free to hold on. If you are climbing “one handed” hold the stile.

Overloading. Do not exceed limits or allow more than one person on at a time.

Handhold. Do not climb higher than 1 metre below the ladder top.

Overreaching. Do not allow both shoulders beyond one side of the ladder.

Caution. These **safety guidelines** are not an exhaustive list of precautions. They should not be taken as a substitute for any additional measures found necessary on site, nor do they guarantee that the use of a ladder is safe without regard to local conditions and are always **subject to an employers risk assessment**.