



USER INSTRUCTIONS

Use

The Laser is a temporary horizontal lifeline which can provide a flexible anchorage between two structures. It may be used for fall arrest, work positioning or restraint. Span lengths beyond 18m are for restraint only.

Connect the rope end to a suitable anchor point; press down on the adjuster's lever to unlock the adjuster, and adjust the length of rope until the body of the adjuster can be connected to the other anchor point.

Take in any slack by pulling on the loose end of the rope. Span lengths beyond 10m may be tensioned with a 3:1 pulley / ascender, such as the heightec Hurricane. Maximum line tension approximately 10kN.

Ensure that anchor points have a minimum strength of 15kN and that anchor stops will not slide down the structure when load is applied. Installers shall ensure the suitability of base materials into which structural anchor devices are fixed.

Single User

Span up to (m)	Line deflection (m)	Minimum ground clearance (m)
9	1.2	8.2
18	3.6	10.6
25	N/A - RESTRAINT ONLY	

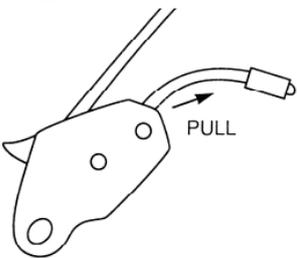
Two User

Span up to (m)	Line deflection (m)	Minimum ground clearance (m)
9	2.2	9.2
18	4.5	11.5
25	N/A - RESTRAINT ONLY	

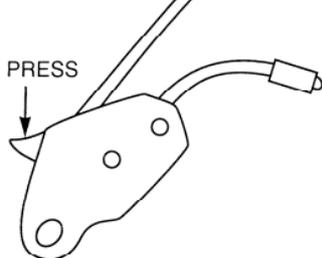
Total ground clearance =
line deflection
+ absorber deployment
+ lanyard length
+ body length
+ safety factor (1.25m)

The above lengths allow for a 2m lanyard with absorber deployment of 1.75m; for shorter lanyards or absorber deployments the ground clearance may be reduced as appropriate.

To tighten



To loosen



Compatibility

An energy absorbing lanyard is not required for restraint or if the user is below the anchor line with a potential fall of less than 1m. For all other situations use with an energy absorbing lanyard to EN355. Ensure there is sufficient space below the lifeline to allow the lanyard to fully deploy without the user hitting the ground or structure (see table).

When used for restraint be aware that some deflection of the line will occur under load even when fully tensioned. The restraint system should not allow users to fall over the edge.

heightec energy absorbing lanyards do not start to deploy at forces under 4kN (static load 400kg) and can therefore be used for restraint and fall arrest.

This product is not intended for use with retractable fall arresters (fall arrest blocks).

Fall arrest: only a full body harness to EN361 is acceptable for use in fall arrest; a sit harness is unacceptable.

Work positioning: harness should conform to EN358 or EN813. A secondary means of protection may be necessary e.g. safety nets or a fall arrest system to EN363.

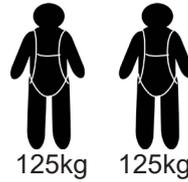
Use the correct attachment point for the correct purpose.

Suitable locking connectors conforming to the relevant EN standards should be used and correctly fastened. A screwlink connector is recommended. Beware of loading karabiners across the gate.

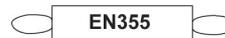
These requirements must be adhered to.

Markings

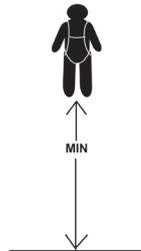
As detailed overleaf, plus:



Maximum 2 users -
125kg each.



Connect via energy absorbing lanyard to EN355 - see table in user instructions.



Minimum ground clearance -
see table in user instructions.

Warnings

- Do not hang tools or equipment from the line.
- For use as a horizontal lifeline. Do not rig at more than 15 degrees from horizontal.
- Beware of lifeline running over sharp edges and abrasive surfaces.

- Anchor points must meet the requirements given overleaf.
- Do not use this product outside its limitations, or for any purpose other than that recommended above.
- Do not alter or make additions to this product.

