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Rope ladder instructions/specifications

General Information

Thank you for purchasing the worlds best “rope” ladder. It is, in fact, not rope but “flat” rope or high-strength UV stabilised polyester webbing, providing far superior stability and strength than traditional rope.

Our rope ladders are specified and used by some of the world’s largest companies and military establishments as well as movie industries and mining/oil drilling organisations. Used deep underground as well as high up in the sky!

The construction of this ladder is of the very highest standards and is, in fact, over-engineered. (See specifications)

In order for you to experience absolute safety whilst on our ladders, please ensure that you have installed the anchoring points to accepted standards. We provide a variety of accessories to make your ladder safe and convenient to ascend or descend. (See accessories)

Each ladder comes with an International Regulation 18/5 OSHACT. D.M.R. 18 CERTIFICATE and each ladder has it’s own unique serial number stamped on a metal disc attached to the leader which corresponds to the certificate.

Instructions

When mounting inside a window, measure the leaders so as to have the first rung resting on the top of the window sill as shown in the illustration on the right...although this is not obligatory it helps with hand-eye coordination for the climber as well a grip point.

Use high quality wall anchors such as Rawl eye bolts, spaced 300mm apart for our standard width ladders and approximately 350mm - 450mm below window opening on the inside wall.

To these eye bolts you can attach the provided bow shackles on the leader straps, or optional carabiners either as permanently secured or to hook onto at the time of need.

When using the option of sling sets, which are manufactured to loop over a suitably strong balustrade or other pipe or structure, it is important for the user to ensure the safety of doing so and if a sharp-edged ledge is being used, to provide protection for the leader straps so as to avoid fraying. Some contractors carry strips of tarpaulin to wrap over the edge beforehand.

Please note that a rope ladder will “hug” the surface of a perpendicular wall and if you have never climbed a rope ladder before, you may find it difficult to get your toe into/onto the first rung. You can overcome this by three methods, first, as you exit the window backwards and whilst holding onto the ledge, it is possible to pull the ladder away from the wall enough to allow for your foot to get a hold. Thereafter your feet provide the spacing needed. The second method is to ask for a spacer set to be fitted as an optional extra. (See accessories) Finally, you can mount a spacer such as 100mm PVC pipe to the outer wall.

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Specifications

Webbing..... Black 50mm polyester with certified 2200kg breaking capacity.

There are two layers of webbing, each with over **2200**kg carrying capacity, **(certified)** This translates to 4.4 tons or **4400**kg. **Ensure anchoring is to capacity!**

Rungs..... Custom designed Grade 6063/T6 anodised aluminium 285mm wide.

Each rung is extruded from high grade 6063 /T6 anodized aluminium. These rungs are custom designed with double vertical inner thick walls ensuring extreme strength - deep fluted linear grooving for maximum grip on hands and feet providing supreme non-slip safety whilst ascending or descending.

Each rung will withstand over 1000kg of weight without distortion, it is almost impossible to break a rung, even under destructive tests, these rungs only bent but would not break. **(**Unlike wood)

Construction.....(see below)

Each rung is held captive in four super strong, 60% glass-filled nylon saddles, which are UV stabilised and these are secured to the rung with 12 pop rivets. The saddles provide extreme stability for the climber as well as acting as shields against abrasion when dragging the ladder over ground. This new design adds exceptional long working life thus saving replacement costs at much greater intervals. This is the weight/stress-bearing safety-securing method of manufacture.

The “leader” straps are **doubled over** for wear and weight endurance along with special sewn-in-place triangle flat shackles that are certified at 4000kg breaking strain.

Each ladder can be supplied with a weather resistant carry bag for convenience and protection at a nominal cost.

Notwithstanding all the above engineering, this is the lightest ladder in the world. A 20 Meter ladder can be picked up with only two fingers and weighs 14kg

Each ladder is supplied with an internationally approved Regulation 18/5 OSHACT. D.M.R. 18 certificate.

Please ensure that all regulation safety standards are adhered to and that your anchoring methods meet the demands of these standards. We recommend 8mm or 10mm Rawl Eyebolts for anchoring into brick or concrete walls.

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Accessories/Optional Extras

Safety Harness

Inter-linking Ladder Connectors

Sling Sets

Safety Handles

Wheel spacers

- Harness - fall arrest system
- INTER-LINKING Ladder connectors for attaching two ladders together
- Eye Rawlbolts for wall mounting (8mm)
- Mini sling fixings to wrap around larger diameter piping such as on railings on verandas etc.
- Safety Handles sewn onto rope ladder for ease of grip
- Spacer wheels to hold ladder away from wall when in use.

Specifications continued...

The aluminium rung “Rope” Ladders are made from flat rope or webbing as per dimensions below...

Note: dimensions are approximate within a few millimeters!