

Beacon Climbing Holds - User Manual

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1. Using Beacon Holds

Beacon climbing holds are designed to fit on to all types of climbing wall surface and can be fixed using either tee nuts on plywood or sockets which have been set into a concrete or brick surface. Although Beacon Holds can be used for dry tooling they aren't designed for this purpose and there is no guarantee of their suitability for this purpose – for this reason full PPE should be worn.

2. Inspecting your holds

All holds are carefully checked before they leave the factory and they are all individually wrapped & boxed per set you have ordered. If you have added bolts to a set these will have been enclosed in a small bag – it should be relatively easy to match the bolts with the holds by looking at the depth of the bolt holes. If you receive any damaged packages please do not sign for them, and if necessary return them with the carrier. If there is any sign of damage, such as chips or cracks, when you unpack the holds they should be returned to the Beacon to be replaced.

3. Tightening holds

Beacon holds can be mounted using either M10 countersink or cap head bolts and are tightened using either a 6mm or 8mm Allen key. Never force a bolt into a Tee nut that isn't sitting squarely, as you have a good chance of cross threading the nut and having it come adrift. The amount of force required to fully tighten a hold depends on the size of the hold and how much leverage it will be subject to in use.

If you are fitting holds to a flat surface there is no problem tightening holds as much as an Allen key will allow. On an uneven surface such as stone work or on a fiberglass wall judgment must be used as holds will be more susceptible to cracking if too much force is applied.

If you suspect a hold has broken on tightening it should be disposed of immediately. Although all Beacon Holds are now fitted with a metal you shouldn't under any circumstances continue to use a hold you suspect has cracked.

4. Second fixing point

All Beacon holds have a second fixing point which can be used to prevent the hazard of holds rotating. The use of this second point is advisable in certain circumstances, eg. on a brick wall intended for small children, or for securing a big jug next to that crucial clip on a lead wall. The second fixing point is designed to take a standard wood screw which can be fixed with an electric screwdriver set to low torque.

5. Fixing screw-on holds

These can only be used on a flat plywood surface and should be fixed with the 5mmx50mm long screws provided using with an electric screwdriver set to low torque.

6. Handling holds

Beacon holds are strong and tough. However, care should be taken with the handling of holds, and any holds dropped from a height should be discarded, as there could be hairline cracks. Care also needs to be taken with general handling to avoid 'throwing' holds onto a hard floor or into a bucket containing other holds: if in any doubt then you should dispose of the hold.

7. Cleaning holds

Beacon holds are very resistant to polishing, though they will clog with chalk and grease with repeated use over time. A scrub in hot soapy water followed by a hot rinse will restore the original texture. If you need to clean large quantities of holds a dishwasher or pressure washer work well, but avoid using temperatures in excess of 50 degrees. Products such as Benky Grip Wash can also be very effective and have no detrimental effect on the strength of the hold although prolonged use might start to fade the colour of the holds.

8. Fixing tee nuts

If you are building a DIY wall with plywood you need good quality 18mm sheets prepared with M10 Tee nuts. Tee nuts are captive nuts that are hammered into the back of the ply before it is mounted, and enables holds to be interchanged without access behind the panel. To place a tee nut, drill a clean 12mm hole in the ply and hammer in the tee nut making sure that it sits squarely. It is always preferable to insert an excess number of tee nuts, as this will enable you to reconfigure your hold pattern many times.

9. Fixing expansion sockets:

Expansion sockets are used for fixing holds to brick, block or concrete walls. To fix:

1. Using a 12mm masonry bit, drill a 42mm deep hole, perpendicular to the wall
2. Clear the hole thoroughly of dust
3. Tap home the expansion fixing using a setting tool

Please note that bolt length is critical when using expansion sockets as there is only 15mm of internal thread inside the socket before a bolt will 'bottom out' – this can be overcome to an extent by drilling the holes a bit deeper.

10. Fixing resin sockets:

Resin fixings give stronger and more consistent fixing in poor surfaces. These, and tubes of polyester resin, can be purchased from The Beacon, and you will also need a mastic 'gun' for injecting the resin. To fix:

1. Drill a hole (slightly longer than the fixing) perpendicular to the wall surface with an 18mm diameter masonry bit
2. Clean the hole thoroughly - a bicycle pump and toothbrush should do the trick
3. Inject the hole approx 2/3 full of resin
4. Carefully insert the sleeve ensuring that excess resin is cleaned away
5. Allow 1 hour before mounting holds and a further 24 hours before use

11. Lifespan & disposal

Beacon Holds have a very long lifespan and should give in excess of 15 years use without any deterioration in strength. However if a hold gets damaged it should be destroyed & disposed of immediately.

12. Warranty

All Beacon products are covered by a 3 year guarantee against defective or faulty manufacturing.

13. Disclaimer

All forms of climbing can be dangerous. Climbing holds are not designed to prevent or reduce any of the inherent dangers of climbing, including personal injury and death. Anyone using Beacon climbing holds or other equipment in any manner is responsible for learning proper techniques and the judgment necessary for their use, and to understand their limitations. Anyone using our products accepts full responsibility for any and all damages or injury of any kind, including death, which may result from the use of any product purchased from Beacon Climbing Walls Ltd. The information in this leaflet is intended solely to aid in making purchase decisions, and is not a substitute for proper instruction, common sense, or in some instances, the services of other professionals such as structural engineers or builders.