



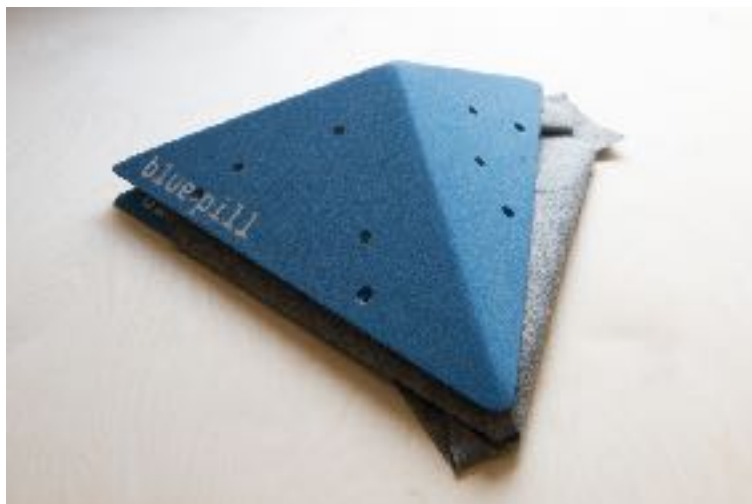
## Safety data sheet

### General information

- Installation may only be carried out by trained and competent personnel
- Compliance with the safety data sheet is a basic requirement for safe use of the volumes. Incorrect installation can result in serious injuries
- The products may not be changed independently
- The surface must comply with the current standard for climbing walls (DIN EN 12572-1) or boulder walls (DIN EN 12572-2). (The surface must be plane and load-bearing, the minimum thickness must be 18mm.)
- The volumes and the holds are designed for indoor use. Outdoor use could reduce the service life and cause the colours to fade more quickly. Therefore such use is at your own risk
- The wood volumes and GRP volumes (hereinafter referred to as volume) and handles are all manufactured in accordance with DIN EN 12572
- Careful handling guarantees a long service life

### Mounting

- The handles and volumes should be stored dry and in ventilated rooms
- Temperatures from +60°C to -20°C are no problem
- The volumes can also be stacked, but we strongly recommend that carpet, fleece or similar suitable layers be placed between them to maintain the longevity of the coating



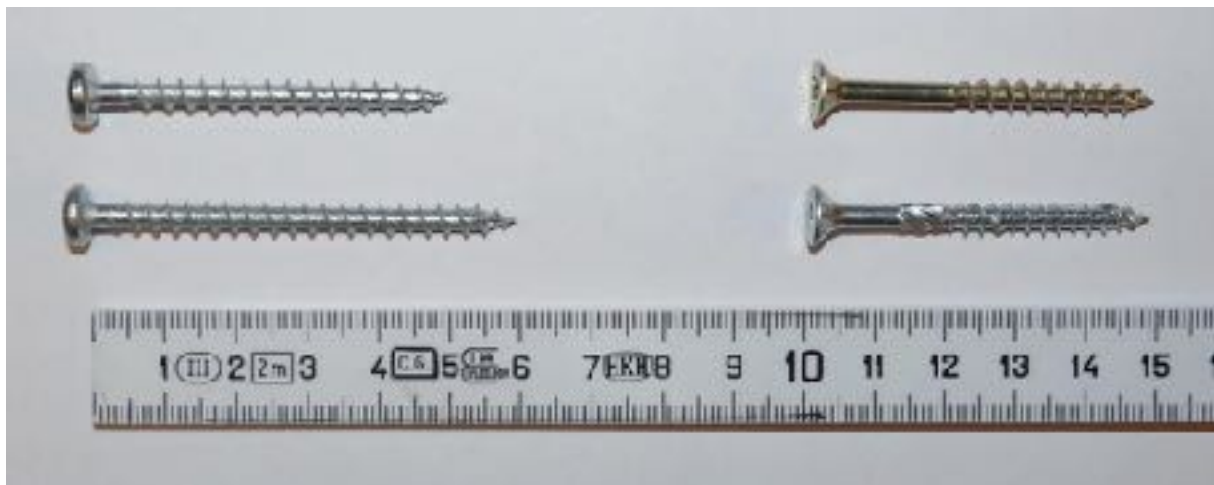
## Cleaning

- PU climbing holds must not be exposed to higher temperatures (>60 degrees)
- The holds should be cleaned at regular intervals after visual inspection by qualified personnel
- For this it is helpful to leave the handles in a mixture of suitable cleaner (we recommend bluewash) and lukewarm water
- When cleaning with a high-pressure cleaner, make sure that smaller holds in particular are not blasted at too high a pressure (otherwise holds could fly through the area)
- It is also helpful to moisten the volume surface with water or hold cleaner before the actual cleaning process and to start cleaning after a short exposure time (5 minutes)
- It is also possible to clean the volumes with the high-pressure cleaner, but in this case ensure a sufficient distance (min. 50cm) between nozzle and volume (test beforehand!)
- Never place the volumes in water or cleaning solution, leave them standing or immerse them in water
- When cleaning, place strips underneath so that excess water can drip off directly



## Assembling

- Handles/volumes must rest on a flat wall over their entire surface. Fastening to curved formations (concave or convex) is therefore prohibited
- Climbing holds with a hole provided for this purpose must be mounted with an allen screw M10, screws must comply with DIN 912, size 8, strength class 8.8
- Only use countersunk screws 4.5mm diameter and the right length for the corresponding hold or volume (hereinafter referred to as chipboard screws) (e.g. WÜRTH, SPAX or comparable) with CE marking (according to approval by the building authorities) use 4.5x25mm countersunk screws / pan-head screws for fiberglass volumes, these must be attached with a torque of 5-10Nm
- Partially and fully threaded screws are possible



- Allen screws must be tightened with a minimum of 20Nm but a maximum of 40Nm, to a fastening option provided for this purpose. (Please note that impact wrenches can generate a torque of 180Nm and more. M10 and volume are permanently damaged)
- Only mounting holes provided for the corresponding screws may be used. All intended mounting holes must be used



- Each chipboard screw may only be used once
- If the climbing hold only has countersunk screws holes, all these mounting points must be used. The same applies to fiberglass volume

- As a general rule, the length of the mounting screw must fully penetrate the climbing wall with a thread (note the full/partial thread!).
- No rope may run over the volume/hold on climbing walls, as damage may occur to the volume/grip and rope
- After assembly, check the volume/hold for correct fastening, damage during assembly and screwing and test the volume/hold for functionality
- No existing/old holes may be used for chipboard screws on the climbing / bouldering wall
- Holds can loosen somewhat over time due to extremely dynamic loads and temperature fluctuations. Tightening may be necessary at certain intervals
- Damaged holds and volumes can have injurious edges and corners. For safety reasons, handles and volumes may not be repaired independently. Defective holds and volumes must be disposed of
- Volume and holds must rest over the entire surface and must not protrude on edges
- During installation, care should be taken to ensure that there are no gaps between volumes and/or holds with a thickness of 8 and 25 mm and a depth greater than 15 mm which could cause them to get stuck, unless they are specifically intended for climbing
- For all holds, it must be ensured that, in addition to the M10 screw connection, additional chipboard screw holes are used to prevent them from twisting



-For volumes with M10 option (Bolt-On) an additional chipboard screw must be used (from 600 mm one chipboard screw per side) to secure the volume before turning and moving

- The chipboard screws must be as far away as possible from the central fixing with the Allen screw. If several fixing points are required, they must be diagonally opposite or as far apart as possible



-For volumes with a base plate, this must first be anchored to the wall using the M10 screws and metal plates supplied

- The volume must then be fixed to the base plate at all fixing points using the Allen screws supplied



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