

# 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 climbing holds and macros. 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 holds and macros 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 holds and macros are manufactured in accordance with DIN EN 12572
- Careful handling guarantees a long service life mounting.
- The holds and macros should be stored dry and in ventilated rooms.
- The products are specified for temperatures from +60°C to -20°C
- If holds or macros are stacked, we strongly recommend that carpet, fleece or similar suitable layers are placed between them to maintain the longevity of the coating.

## CLEANING

- PU climbing holds and macros must not be exposed to higher temperatures  $>+60^{\circ}\text{C}$ .
- The holds and macros should be cleaned at regular intervals after visual inspection by qualified personnel. For this it is helpful to leave the holds and macros in a mixture of suitable cleaner and lukewarm water.
- When cleaning with a high-pressure cleaner, make sure that smaller holds in particular, are not blasted at too high pressure (otherwise holds could fly through the area – watch out!)
- It is also helpful to moisten the hold and macro 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 macros with a high-pressure cleaner, but in this case ensure a sufficient distance of minimum 50cm between nozzle and macro (test beforehand!)
- Never leave the holds or macros in water or cleaning solution for a longer period of time.
- After cleaning, place stripes underneath so that water can drip off directly.

## ASSEMBLING

- Holds and macros 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 macro (hereinafter referred to as chipboard screws) (e.g. WÜRTH, SPAX or comparable) with CE marking (according to approval by the building authorities). Partially and fully threaded screws are possible. Use 4.5x25mm countersunk for macros, these must be attached with a torque of 5-10Nm.



- 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 holds will be 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 macros.
- 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 macro/hold on climbing walls, as damage may occur to the hold, macro and rope.
- After assembly, check the macro/hold for correct fastening, damage during assembly and screwing and test the macro/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, holds and macros may not be repaired independently. Defective holds and macros must be disposed of.
- Macros 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 macros 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 the hold from twisting.