



# Safety data sheet

## Table of contents

<b>1 General .....</b>	<b>2</b>
<b>2 Wood volume .....</b>	<b>3</b>
2.1 General .....	3
2.2 Storage .....	3
2.3 Assembly .....	3
2.4 Cleaning.....	4
2.5 Maintenance/ repair/ disposal.....	4
<b>3 Macros.....</b>	<b>5</b>
3.1 General.....	5
3.2 Storage.....	5
3.3 Assembly.....	5
3.4 Fastening holds or step options to the Macro.....	5
3.5 Cleaning.....	6
3.6 Maintenance/repair/disposal.....	6
<b>4 Climbing holds.....</b>	<b>7</b>
4.1 General.....	7
4.2 Storage.....	7
4.3 Assembly.....	7
4.4 For climbing holds with M10 main attachment.....	7
4.5 For climbing holds without M10 main fastening.....	8
4.6 Cleaning.....	8
4.7 Maintenance/repair/disposal.....	8



## 1 General

Compliance with the safety data sheet is a basic prerequisite for the safe use and long service life of BLUEPILL products. The volumes, macros and climbing holds comply with DIN EN 12572 2017. Use is only permitted in combination with climbing walls and products in accordance with DIN EN 12572. Installation may only be carried out by trained and competent personnel. BLUEPILL products are intended for indoor use. Outdoor use will reduce the service life of the volumes, macros and climbing holds and lead to increased wear of the materials. Exposing the products to environmental influences may result in color changes to the product. Independent modification of the volumes, macros and climbing holds, or their improper use, is not permitted and will result in BLUEPILL's exclusion of liability.



## 2 Wood volume

### 2.1 General

Wooden volumes are made of high-quality, 13-ply, 18 mm birch multiplex, predominantly from European production

They are fitted with rosettes, durable flange nuts made of galvanized steel (meet the requirements of DIN EN 12572:2017) and a durable, 5-layer coating.

**Manufacturer's specifications, product information, instructions and warnings must be observed.**

Dynamic loads during bouldering and climbing and/or thermal effects such as solar radiation can cause the fastenings to loosen. Particularly in the case of wooden panels and multiplex panels where drive-in nuts and T-nuts are used, initial settling of the screw connections may occur, meaning that these must be checked and/or retightened regularly.

### 2.2 Storage

- Choose storage locations that are dry and ventilated
- Storage conditions under UV exposure must be avoided
- Temperatures between -20°C and 40°C, optimum at room temperature
- The volumes are stackable, separated by an appropriate intermediate layer (cardboard, fleece, etc.)
- Do not store under pressure

### 2.3 Assembly

- Only by trained and expert personnel
- All specified fixing points must be used
- No fastening in existing or old holes in the wall structure
- Fastening only with chipboard screws with CE marking, building authority approval
  - 4,5x50mm or 4,5x60mm
  - Round or countersunk head screws
  - Partial or full thread without milling head
  - **Tightening torque max. 5 - 10Nm**

*Note: Each chipboard screw is only permitted for single use! Manufacturer's specifications are binding.*

- The contact surface must be flat and the contact must be full-surface – *no mounting of the volumes on concave or convex wall surface permitted!*
- Placement in the rope run in climbing gyms not permitted – *damage to the volume and rope sheath possible!*
- Always avoid mounting volumes under tension - *pretensioning the material leads to considerable force and tension peaks, which put additional strain on the macro and can lead to lasting damage, including deformation and breakage.*
- Edge and flange protrusions are not permitted!
- Check for any installation damage (e.g. cracks, sharp corners); if damaged, the volume must be replaced immediately – risk of injury!
- For rope climbing walls, there is the option of an assembly aid/securing the volume on the climbing wall
- Only use undamaged M10 screws for fastening climbing holds and for bolt-on volumes!
- The length of the screws must be dimensioned so that the thread of the screw completely penetrates the flange nut on the wall side.



## 2.4 Cleaning

It is generally possible to clean the volumes. Brushing and a water-based solution is the option to be prioritized. Furthermore, Kletterkultur offers proprietary cleaning options for the treatment of volumes. The focus here is on cleanliness, sustainability, and user-friendliness. They can be found under the following link:

<https://climbing-culture.com/de/Zubehoer/Klettergriff-Reiniger/>

- For further information, please refer to the product data sheet or contact the manufacturer directly
- Personal protective equipment must be worn accordingly (PPE)
- Cleaning with water or handle cleaner in the manufacturer's standard dosage
- When cleaning with high pressure, ensure sufficient distance between volume and nozzle (at least 50 cm), ensure adequate water pressure in accordance with the machine operating instructions
- Do not immerse or soak the volume in liquids
- The substrate must be water-draining. – avoid waterlogging (e.g. underlay strips, screen surface, etc.)

*Tip: Before cleaning, wet the surface with water or cleaning solution and leave to act for 5 minutes*

## 2.5 Maintenance/ repair/ disposal

- To ensure safe use of the volumes, **regular checks** must be carried out in accordance with DIN EN 12572 (before each use, at least once a year). Damaged volumes may have edges that could cause injury and must therefore be replaced immediately.
- Independent maintenance or repair is not permitted and will result BLUEPILL's exclusion of liability. Repairs and maintenance work are generally possible, please contact the manufacturer for further information.
- If the surface is worn, the service life can easily be extended with a DIY upcycling kit, for example. The earth will thank you. Special repair kits for upcycling options can be found under the following link:

<https://climbing-culture.com/de/Zubehoer/DIY-Klettergriff-Upcycling-Kit/>

*Note: At the end of their service life, the volumes can be disposed of as bulky waste or recycled in accordance with the local disposal guidelines.*



## 3 Macros

### 3.1 General

The base bodies of our Macros are made from 100% recycled plastic and have a durable, 5-layer coating. Production waste is fed back into the recycling chain. Exposure to UV radiation and moisture can lead to color changes and material degradation. Exposure to UV radiation and moisture can lead to color changes and material damage.

**Manufacture's specifications, product information, instructions and warnings must be observed.**

### 3.2 Storage

- Choose storage locations that are dry and ventilated
- Storage conditions under UV exposure must be avoided
- Temperatures between -20°C and 40°C, optimum at room temperature
- The volumes are stackable, separated by an appropriate intermediate layer (cardboard, fleece, etc.)
- Do not store under pressure

### 3.3 Assembly

- Only by trained and expert personnel
- All specified fixing points must be used
- No fastening in existing or old holes in the wall structure
- Fastening only with chipboard screws with CE marking, building authority approval
  - 4,5x50mm or 4,5x60mm
  - Round or countersunk head screws
  - Partial or full thread without milling head
  - **Tightening torque max. 5 - 10Nm**

*Note: Each chipboard screw is only permitted for single use! Manufacturer's specifications are binding.*

- The contact surface must be flat and the contact must be full-surface – *no mounting of the volumes on concave or convex wall surface permitted!*
- Always avoid mounting macros under tension - *pretensioning the material leads to considerable force and tension peaks, which put additional strain on the macro and can lead to lasting damage, including deformation and breakage.*
- Edge and flange protrusions are not permitted!
- Placement in the rope run in climbing gyms not permitted – *damage to the volume and rope sheath possible!*
- Check for any installation damage (e.g. cracks, sharp corners); if damaged, the volume must be replaced immediately – risk of injury!

*Note: The use of an impact wrench usually generates a torque of well over 100Nm (up to 180Nm) – permanent damage to the climbing hold and the fastening is often the result!*

### 3.4 Fastening holds or step options to the Macro

Handles can be attached to Macros with chipboard screws under the following conditions:

- For stabilization, there must be an additional reinforcement as a substructure that has at least the strength properties of 13-ply, 18mm birch plywood.
- The distance from the screw hole to the edge in the reinforcement layer must be at least 1 cm from the edge
- Handles must lie flat
- Reinforcement layer must lie flat
- Mounting additional volumes and macros on the macros is not permitted



### 3.5 Cleaning

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- For further information, please refer to the product data sheet or contact the manufacturer directly
- Personal protective equipment must be worn accordingly (PPE)
- Cleaning with water or handle cleaner in the manufacturer's standard dosage
- When cleaning with high pressure, ensure sufficient distance between volume and nozzle (at least 50 cm), ensure adequate water pressure in accordance with the machine operating instructions
- Do not immerse or soak the volume in liquids
- The substrate must be water-draining. – avoid waterlogging (e.g. underlay strips, screen surface, etc.)

*Tip: Before cleaning, wet the surface with water or cleaning solution and leave to act for 5 minutes*

### 3.6 Maintenance/repair/disposal

- To ensure safe use of the volumes, **regular checks** must be carried out in accordance with DIN EN 12572 (before each use, at least once a year). Damaged volumes may have edges that could cause injury and must therefore be replaced immediately.
- Independent maintenance or repair is not permitted and will result BLUEPILL's exclusion of liability. Repairs and maintenance work are generally possible, please contact the manufacturer for further information.
- If the surface is worn, the service life can easily be extended with a DIY upcycling kit, for example. The earth will thank you. Special repair kits for upcycling options can be found under the following link:

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*Note: At the end of their service life, the volumes can be disposed of in the bulky waste or in accordance with the local disposal guidelines*



## 4 Climbing holds

### 4.1 General

Our climbing holds are made of PU resin with 40% renewable raw materials and are free from plasticizers and solvents. The climbing holds are intended for indoor use. Exposure to UV radiation can lead to color changes and material deterioration. Dynamic loads during bouldering and climbing and/or thermal effects such as solar radiation can cause the fastenings to loosen. Particularly in the case of wooden panels and multiplex panels where drive-in nuts and T-nuts are used, initial settling of the screw connections may occur, meaning that these must be checked and/or retightened regularly.

**Manufacturer's specifications, product information, instructions and warnings must be observed.**

### 4.2 Storage

- Choose storage locations that are dry and ventilated. In addition, storage conditions under UV exposure should be avoided
- Temperatures between -20°C and 40°C, ideally at room temperature
- Climbing holds can be stacked, separated by an appropriate intermediate layer (cardboard, fleece, etc.)
- Do not store under tension

### 4.3 Assembly

- Only by trained and expert personnel
- All specified fixing points must be used
- No fastening in existing or old holes in the wall structure
- Fastening only with chipboard screws with CE marking, building authority approval
  - 4,5x50mm or 4,5x60mm
  - Round or countersunk head screws
  - Partial or full thread without milling head
  - **Tightening torque max. 5 - 10Nm**

*Note: Each chipboard screw is only permitted for single use! Manufacturer's specifications are binding.*

- The contact surface must be flat and the contact must be full-surface – *no mounting of the holds on concave or convex wall surface permitted!*
- Placement in the rope run in climbing gyms not permitted – *damage to the holds and rope sheath possible!*
- Always avoid mounting holds under tension - *pretensioning the material leads to considerable force and tension peaks, which put additional strain on the hold and can lead to lasting damage, including deformation and breakage.*
- Edge and flange protrusions are not permitted!
- Check for any installation damage (e.g. cracks, sharp corners); if damaged, the holds must be replaced immediately – risk of injury!
- Only use undamaged M10 screws for fastening climbing holds and for bolt-on volumes!

*Note: The use of an impact wrench usually generates a torque of well over 100Nm (up to 180Nm) – permanent damage to the climbing hold and the fastening is often the result!*

### 4.4 For climbing holds with M10 main fastening

- Main fastening with M10 screw to DIN 912, strength class 8.8
- Tightening torque min. 20Nm, max. 40 Nm
- If there is no M10 fixing point in the wall at the selected position, this must be screwed in with a chipboard screw and a corresponding, form-fitting adapter (Filler, Ringo). (*Manufacturer's specifications are binding*)

*Note: The use of an impact wrench usually generates a torque of well over 100Nm (up to 180 Nm) – permanent damage to the climbing hold and the fastening cannot be ruled out*

- Anti-rotation lock by means of a chipboard screw (CE marking) – **Tightening torque max. 5 - 10Nm**
- Only use undamaged M10 screws!



## 4.5 For climbing holds without M10 main fastening

- Main fastening using chipboard screws
- **All fixing points must be used!**
- Anti-twist protection or main fastening for climbing holds without M10 main fastening only with chipboard screws with CE marking ("building authority approval")
  - 4,5 mm diameter, length according to the climbing hold
  - Thread must penetrate climbing wall completely
  - Countersunk head
  - Partial or full thread without milling shank
  - **Tightening torque max. 5 - 10Nm**

*Note: Each chipboard screw is only permitted for a single use! Manufacturer's specifications are binding*

- The contact surface to the wall must be flat and the contact must full-surface – *mounting the climbing holds on concave and convex wall surfaces is only possible to a limited extent!*
- Do not install the climbing holds under tension – *pretensioning the material leads to considerable force and tension peaks, which put additional strain on the climbing holds and can lead to lasting damage, including deformation and breakage.*
- Edge and flange protrusions are not permitted!
- Placement in the rope run in climbing gyms not permitted – *damage to the climbing hold and rope sheath possible!*
- Check for any installation damage (e.g. cracks, sharp corners), replace handle immediately if damaged – risk of injury

## 4.6 Cleaning

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- The substrate must be water-draining. – avoid waterlogging (e.g. underlay strips, screen surface, etc.)

*Tip: Before cleaning, wet the surface with water or cleaning solution and leave to act for 5 minutes*

## 4.7 Maintenance/repair/disposal

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*Note: At the end of their service life, the volumes can be disposed of in the bulky waste or in accordance with the local disposal guidelines*