English

Installation instructions

HEIDELBERG

A Installation instructions

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1 Column for "Heidelberg Wallbox Home Eco" and "e.GO Wallbox home"

1.1 Requirements at the site

- The site requirements for the Wallbox, which are given in the installation instructions for the Wallbox, must be fulfilled.
- If the column is installed in a parking area or in an underground car park, a suitable anti-collision device must be provided.
- The site fabricator is responsible for calculating, dimensioning, and fabricating the concrete foundation.
- The column must be installed on a flat, horizontal, load-bearing surface. A concrete foundation is recommended in order to provide secure and permanent anchoring. Frost-resistant base, concrete: C30/37 LP for XC4, XD1, XF4 respectively C25/30 LP for XC4, XD1, XF2.
- After it has been secured to the foundation, the column must be able to withstand a force of min. 500 Nm in all directions.
- The surface must allow drainage of any water that penetrates the pedestal.
- Installation of the column on asphalt is not permissible.

1.2 Electrical stipulations

- Single wires are not permitted to supply power.
- The supply line must be dimensioned for medium to heavy loads. Practical examples:
  - PVC installation cables of type NYM,
  - PVC ground cables of type NYY,
  - H07RN-F heavy rubber cable.
- The sheath diameter of the connecting line must not exceed 17 mm (max. cable diameter of the cable entry gland of the Wallbox).

Ground connection in the column

- The ground connecting bolts are used to connect the column to the equipotential bonding system at the installation site. The connection must comply with the respective national regulations. Recommended minimum cross-section: 6 mm² for copper and 16 mm² for aluminum. The resistance must not exceed 1 ohm.

Types of cable routing

Cable routing via cable conduit or protective hose through the foundation:

- All cables must emerge from the floor exactly in the middle of the concrete foundation within a quadratic area of max. 50 mm x 50 mm. The ca-

bles need an excess length of approx. 1.6 m for further installation. When fabricating the concrete foundation, all cables must be protected against damage by suitable means (e.g. with a protective hose/conduit). The protective hose/conduit must have an excess length of approx. 0.3 m above the concrete foundation. The internal dimension of the cable hose or conduit must be sufficient to accommodate additional lines such as those for equipotential bonding or for an external enable/ disable device.

Above-ground cable routing:

- All cables must be routed through a cable conduit or cable duct to the back of the column so that they are not a tripping hazard. The cables need an excess length of approx. 1.6 m from the end of the cable conduit or cable duct for further installation. The internal dimension of the cable conduit or cable duct must be sufficient to accommodate additional lines such as those for equipotential bonding or for an external enable/disable device.

1.3 Maintenance and cleaning

- Clean the stainless steel column with a stainless steel cleaner, as necessary.
- Remove any rust film with an abrasive fleece or similar.

► **Note**

Comply with the instructions for use provided by the manufacturer of the cleaner.

Always check the compatibility of a cleaner at an inconspicuous place before using it.

Do not clean the column with a water jet (garden hose, high-pressure cleaner, etc.).

1.4 Scope of supply/accessories in the separate parts set

- Column,
- adapter plate,
- four M6x16 countersunk screws to fasten the adapter plate to the column,
- three M8 nuts to fasten the Wallbox to the column,
- two cable protecting sleeves,
- installation instructions for the column.

Parts for the earth connection,

- one contact disk,

- two washers,
- one spring ring,
- one nut.

► **Note**

The fastening materials (screws/dowels) for mounting the column onto the foundation are not included in the scope of supply due to different possible mounting surfaces.

The fastening screws should have a diameter of 10 mm. Suitable heavy-duty dowels or similar for the mounting surface must be used.

1.5 Assembly of the column

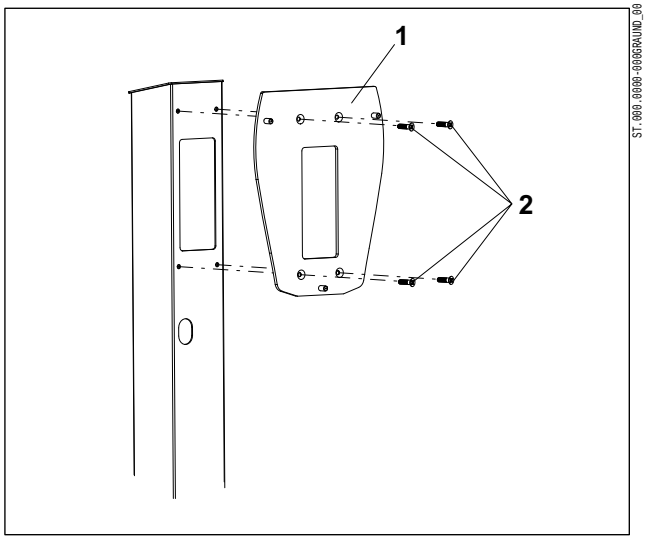

Fig. 1 Fastening of the adapter plate

1. Fasten the adapter plate (Fig. 1/1) to the column using the four enclosed countersunk screws M6x16 (Fig. 1/2). Tightening torque 7 Nm.

1.6 Installation of the column if the connecting line exits from the foundation

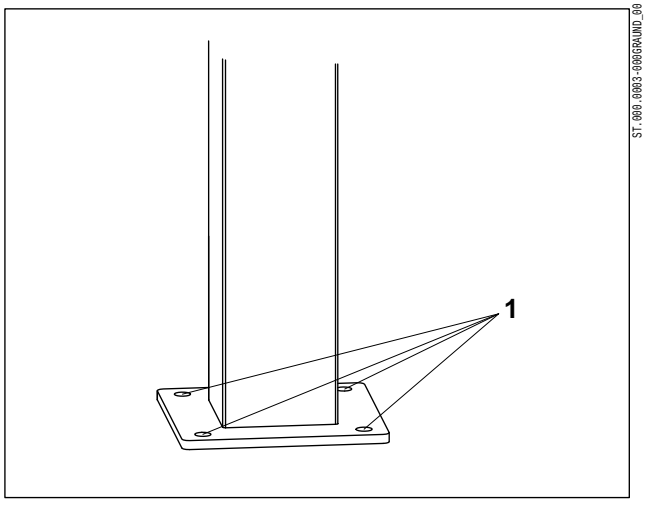

Fig. 2 Base plate of the column

1. Position the column centrally above the cable outlet.
2. Mark the four bore holes on the concrete foundation using the column's base plate (Fig. 2/1) as a template.
3. Drill the four mounting holes (diameter according to the heavy-duty dowels being used).
4. Feed the connecting line into the column from below.

   If the cable is particularly rigid, it is easier to feed in the connecting line when the column is horizontal.

   If equipotential bonding of the column is required, a separate equipotential bonding line must be routed to the column. This also applies to additional lines required for an optional external dis-

able/enable device. These lines must also be fed into the column from below.

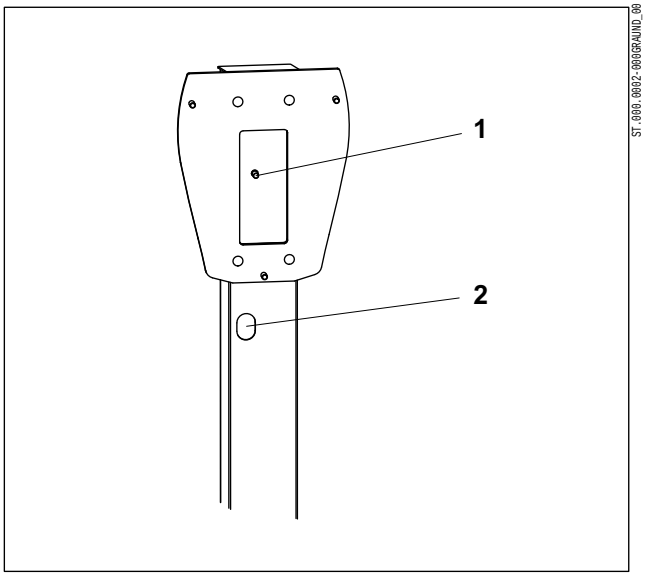

Fig. 3 Grounding point of the column

5. Attach a cable protecting sleeve (separate parts set) to the cable outlet opening (Fig. 3/2).
6. Feed the connecting line and, if appropriate, the lines for an external enable/disable device out of the cable outlet opening of the column.
7. Fasten the column to the foundation using the 4 screws.
8. Connect the equipotential bonding line to the grounding pin (Fig. 3/1) of the column.
   - Sequence: contact disk, washer, cable lug/ cable, washer, spring ring, nut.
   - Tightening torque 12 Nm.

1.7 Installation of the column if the connecting line is routed above ground

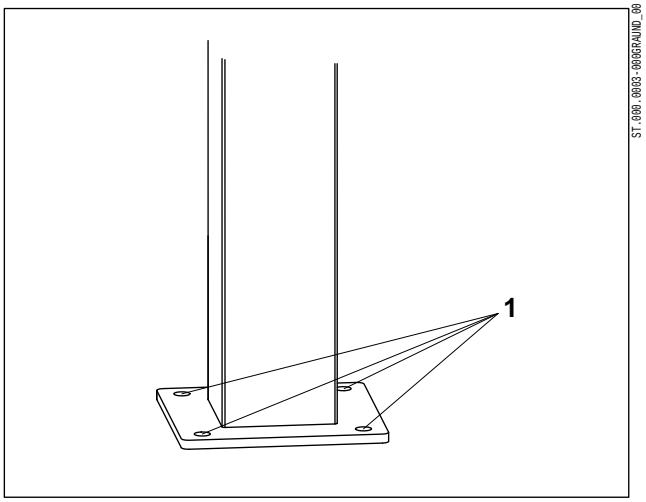

Fig. 4 Base plate of the column

1. Position the column at the desired installation location.
2. Mark the four bore holes on the foundation using the column's base plate (Fig. 4/1) as a template.
3. Drill the four mounting holes (diameter according to the heavy-duty dowels being used).
4. Route the connecting line(s) in a cable conduit/ cable duct to the desired installation position.

   ► **Note**

   Route the connecting line to the column so that it is not a tripping hazard.

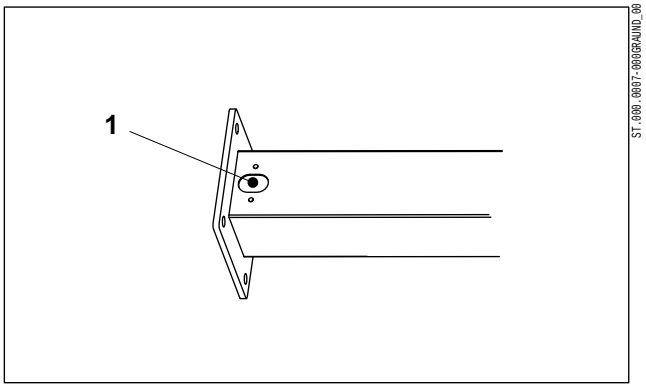

Fig. 5 Cable entry into the column

5. Attach a cable protecting sleeve (separate parts set) to the cable entry opening (Fig. 5/1).
6. Feed the connecting line into the column through the cable entry.

   If the cable is particularly rigid, it is easier to feed in the connecting line when the column is horizontal.

   If equipotential bonding of the column is required, a separate equipotential bonding line must be routed to the column. This also applies to additional lines required for an optional external disable/enable device. These lines must also be fed through the cable entry (Fig. 5/1).

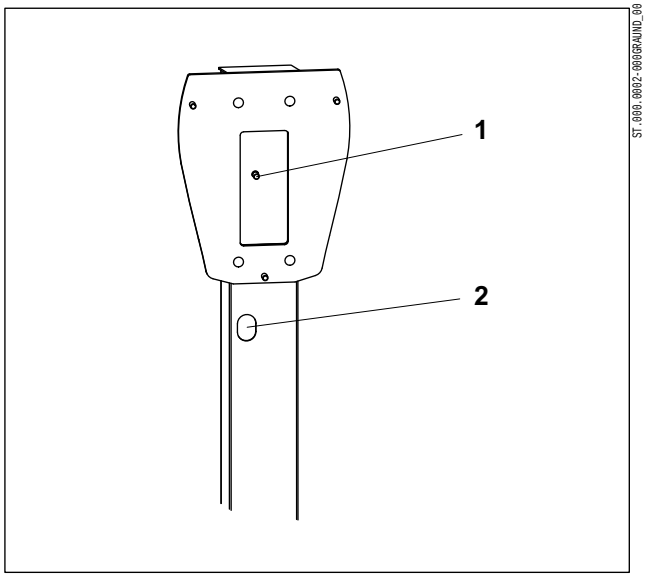

Fig. 6 Grounding point of the column

7. Attach the second cable protecting sleeve (separate parts set) to the cable outlet opening (Fig. 6/2).
8. Feed the connecting line and, if appropriate, the lines for an external enable/disable device out of the cable outlet opening of the column.
9. Connect the equipotential bonding line to the grounding pin (Fig. 6/1) of the column.
   - Sequence: contact disk, washer, cable lug/cable, washer, spring ring, nut.
   - Tightening torque 12 Nm.
10. Place the column upright and fasten onto the foundation with the four screws.

1.8 Electrical connection of the Wallbox

The electrical connection procedure for the Wallbox is documented in the installation instructions of the Wallbox.

1.9 Disposal

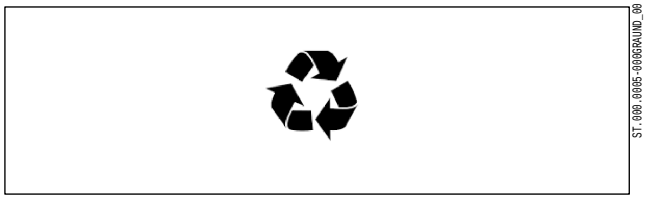

Fig. 7

After the Wallbox has been correctly decommissioned, dispose of the column according to the currently valid disposal regulations.