PohlCon

PARTNER
FROM START
TO FUTURE.

Wireless Charging Protection System

Assembly instructions WCPS-R-30




EPAL
WCPS-R-3013



The system at a glance

Scope of delivery

Charging protection housing consisting of:
- Cassette unit
- Special cover made of PCX material
- Quick connector

Heavy duty cable duct consisting of:
- Duct trough
- End plate
- Heavy duty trunking cover

Accessories:
- L-Connector
- T-Connector
- Duct connector
- Rubber strip
- Mounting material

Optional accessories:
- Milling marking template

The charging pad and any extension cables are supplied by Wiferion GmbH and are not part of the scope of delivery.

Preparation

Recommended tool:
- Milling drum or caulking hammer
- Handheld joint cutter
- Handheld router
- Cordless screwdriver
- Bit set for Torx
- Hammer
- Metal drill
- Foil/adhesive material for sealing
- Cut-off grinder
- M6 countersunk drill for trunking cover

Optional:
- Core drill
- Spirit level
- Spray can

Safety instructions

We recommend that the WCPS product be installed only by integrators certified by PohlCon or under the supervision of a Pohlcon site manager. Improper and unprofessional installation and resulting consequential damage will lead to the exclusion of warranty claims.

We recommend the use of suitable protective gloves.

Observe safety instructions

Read mounting instruction completely

Document the installation

The sticker instructions on the charging pad must be observed



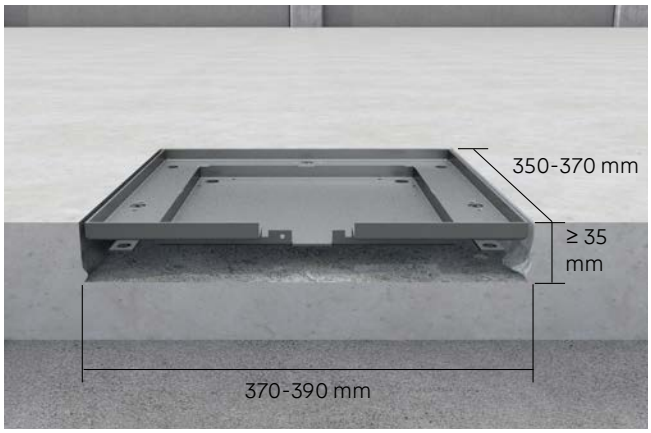
1. No heavy load
2. No access for persons with pacemakers or implanted defibrillators
3. No access for persons with implants made of metal
4. No reaching in
5. Warning against non-ionizing radiation
6. Warning against hot surface
7. Observe important information in the Mounting instruction
8. Warning of electrical voltage
9. General warning

You want to become a certified integrator?
You can find more information on:
wcps@pohlcon.com

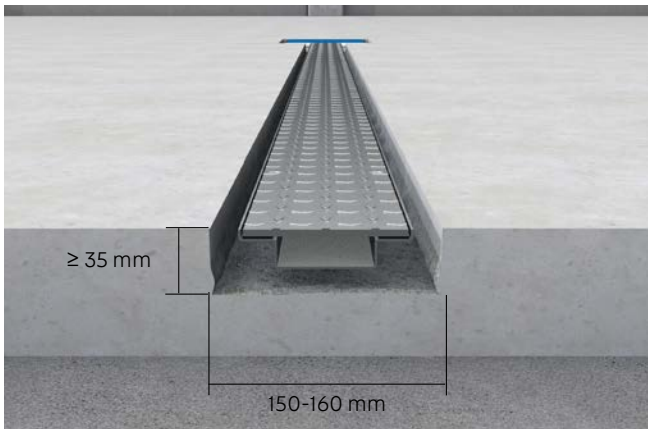
Milling concept

Milling in existing buildings is carried out according to the milling concept of the loading protection enclosure system as well as the duct system. It is essential to clarify the ground conditions with the client before starting the milling work in order to use suitable milling equipment. The work must be coordinated with the site management/construction planning in advance. In addition, care must be taken to ensure that there is sufficient clearance for cables. Milling or chiselling out should only be carried out by experienced specialist companies. Ground unevenness can be compensated for by backfilling the joint.

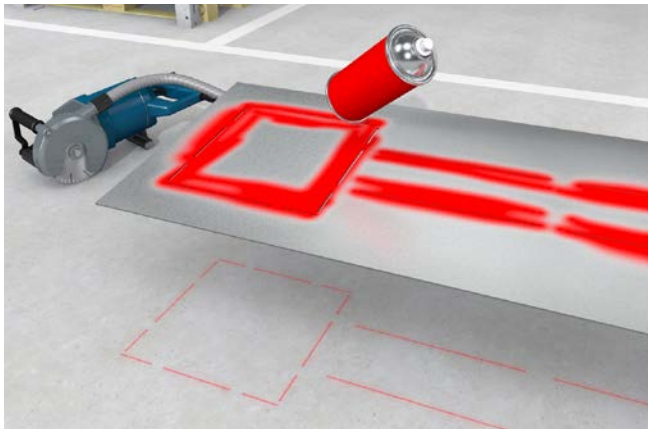
Milling is necessary for soil preparation. According to the present milling concept, a minimum depth of ≥ 35 mm is to be provided (30 mm material depth + min. 5 mm for relining the grout). The joint width should be between 11 and 20 mm on each side to better compensate for unevenness of the floor. Necessary grouting material: fast-hardening and low-shrinkage swelling grout or screed for highest dynamic and static loads.



Milling concept cassette unit



Milling concept heavy duty channel



For effortless floor marking of the installation site, we offer a corresponding template.

Assembly

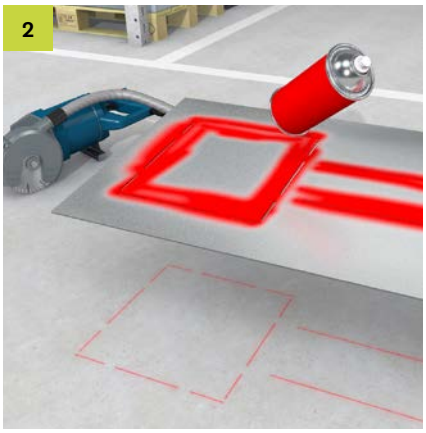
Notes
For further notes on corner and channel connections, see p. 12.

1



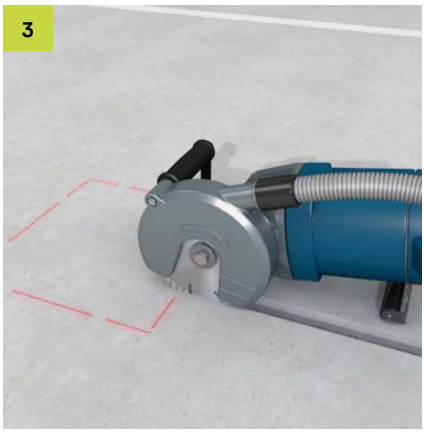
Observe floor conditions on site.

2



The floor is milled out in accordance with the milling concept. Optionally, a template for marking the milling zone can be ordered.

3



We recommend a joint cutter for the edge zones and a core drill for the corner areas. Then mortise/mill to the required depth.

4



Check the quality of the milling. (Depth tester on request)

5



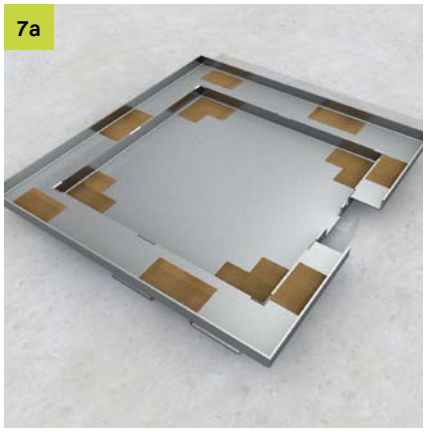
If necessary, carry out minor finishing work by hand.

6



3 levelling anchors are required to mount the cassette. Fix with 2 countersunk screws UKS M3x6E per levelling anchor (positions see picture).

7a



Tape the holes in the cassette from above. The large holes serve as a later checkpoint to see if the grouting underneath is optimal.

7b



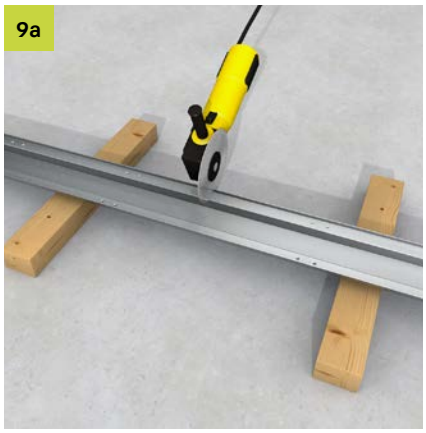
Tape off the blind rivet nuts of the levelling anchors that are open at the bottom to avoid dirtying the thread.

8



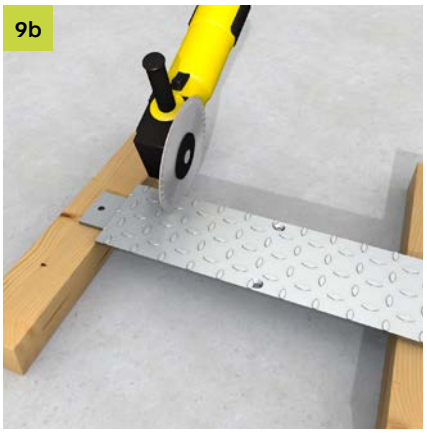
Before cutting the trunking segments, ensure the correct alignment of the connecting trunking tray to the cassette. First connection piece is adapted at the factory.

9a



Cut the trunking segments and covers to size and check for fit in the milling zone. If necessary, drill holes for L-connectors and T-branches.

9b



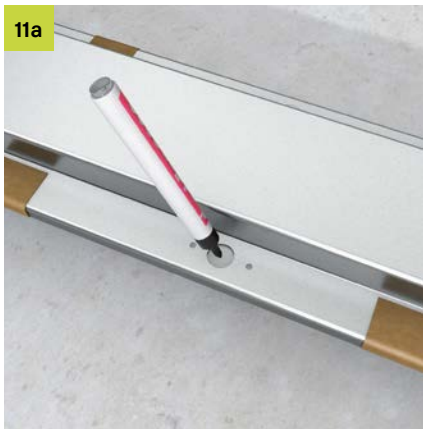
Shorten the first connection duct cover to a max. length of 966 mm. Cut off the end piece with the trunking tongue on the underside. Mill the cable outlet hole on the last cover of the system.

10



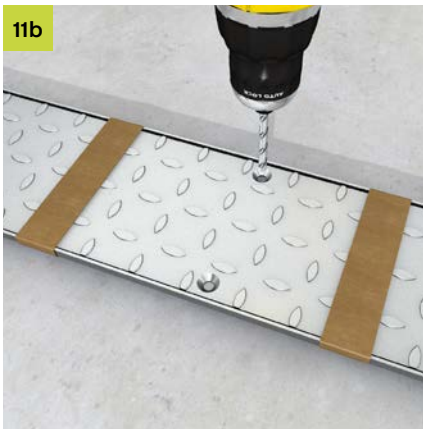
Press out the metal plates at the positions needed later for the levelling anchors.

11a



Prepare the cover for later screwing to the trunking trough: 1) Fix the cover shortened to size to the trunking trough, turn it over and mark the drilling position. 2) Drill holes for M6 screws.

11b



Make counterbores for M6 screws on the tear drop side. Remove the cover again.

12



Fix levelling anchors with 2 UKS M3x6E each under the trunking tray wings (12 levelling anchors per 3 m trunking segment recommended). Tape off open blind rivet nuts underneath the anchors.

13



Screw the cover to the channel via the thread of the levelling anchor and check for fit. Remove cover again to prepare levelling beam for installation in the milling zone.

14



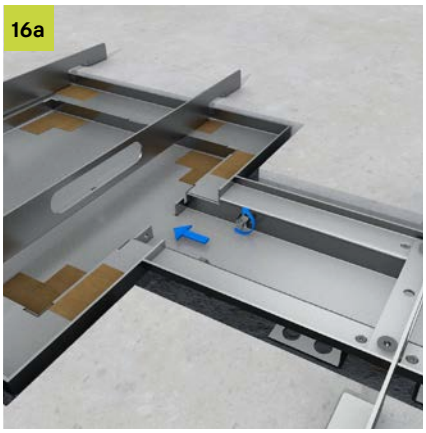
On the side of the wallbox (duct end), screw on the duct end plate and tape off the slots.

15



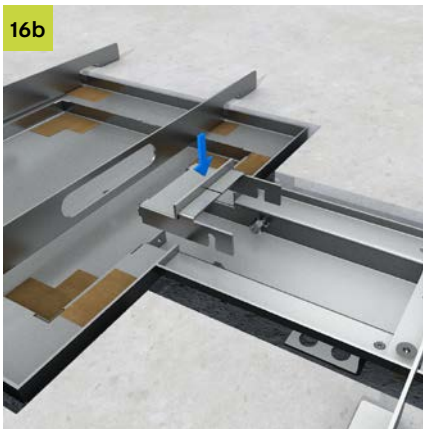
Attach levelling beams to the trunking and cassette (2x per cassette and 3-4x per 3 m trunking). Leave less than 900 mm distance between levelling beams! Cover the blind rivet nuts from below.

16a



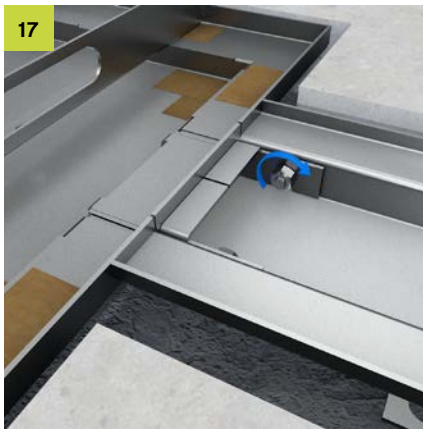
Hook the channel and cassette into the milling zone using levelling beams. Push the trunking to the opening of the cassette edge. Loosely attach the first FRSV 6x12 screw pair with nuts.

16b



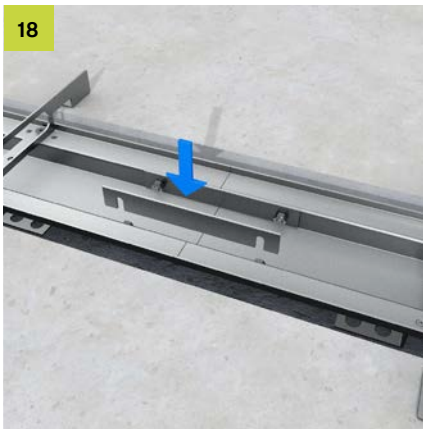
Hook in quick connector.

17



Screw the quick connector to the cassette with FRSV 6x12 and SEMS 6 nuts. Check system for correct fit of all components.

18



If more than 3 m of trunking is required, screw another trunking segment together using duct connector and tape the joints.

19



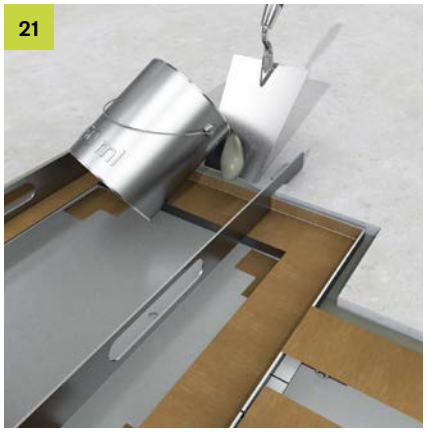
To protect against overflowing grouting material, tape all openings of the trunking system and cassette unit as well as edge areas.

20



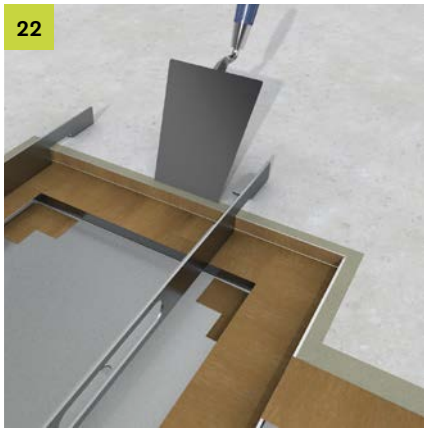
Check all components in the milling zone for flat, straight alignment with the surrounding ground.

21



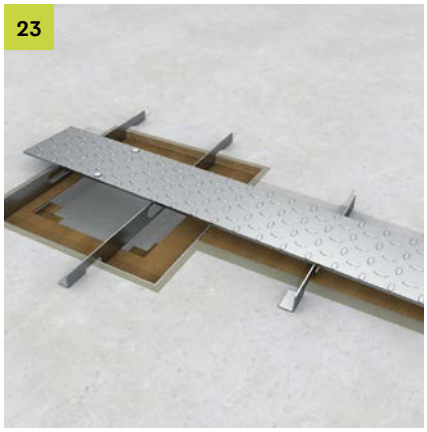
Backfilling with fast-hardening and low-shrinkage swelling grout or screed for highest loads (see note p. 11).

22



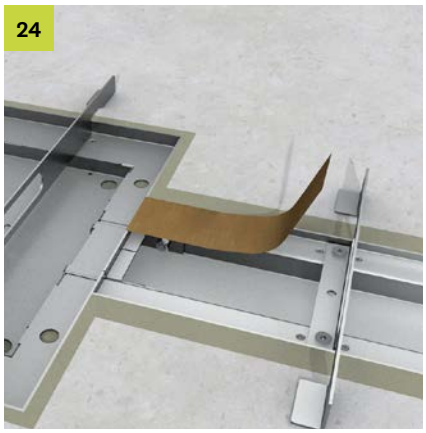
In order to avoid air inclusions and to distribute the grout optimally, „re-punching“ along the channel and cassette wings is recommended.

23



Weight down the cassette and channel, e.g. with a cover, to prevent flooding.

24



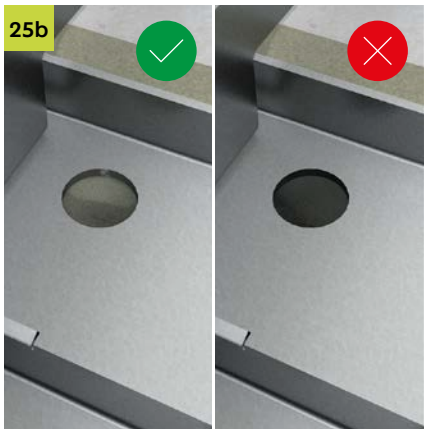
When the grout has reached its flow strength, remove the adhesive strip and clean the system and the surrounding floor.

25a



Check for complete relining by means of visual inspection of the holes of the cassette surface.

25b



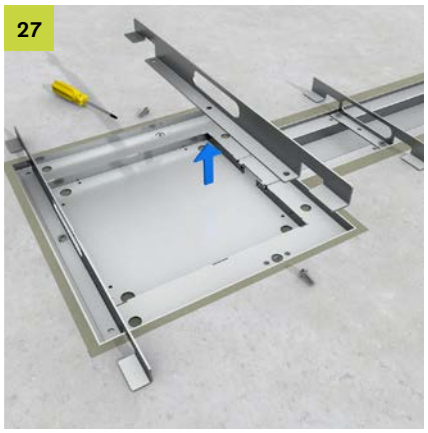
If there are cavities, they must be backfilled.

26



Curing times of the potting compound as well as measures to avoid stress cracks, if applicable, can be found in the respective data sheet.

27



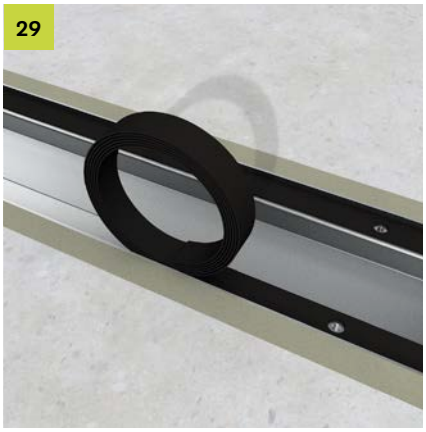
Remove levelling beams after the grout has cured. For information on the walkability of the grout, please refer to the manufacturer's information.

28



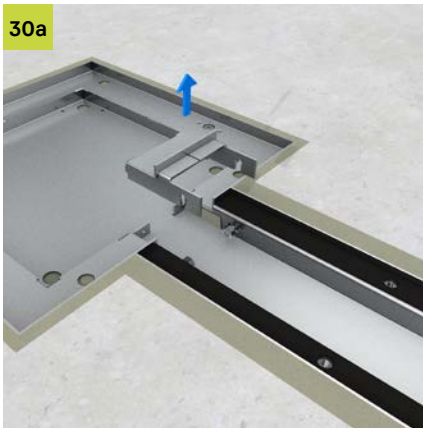
Before inserting the loading pad, check for contamination and clean the system if necessary. The channel and cassette must be free of dirt/foreign objects.

29



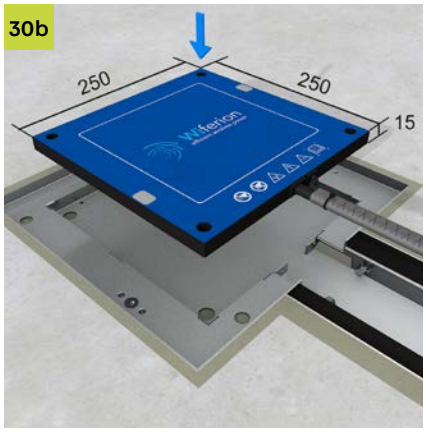
Glue on the side profile rubber strip. The threads in the channel must remain free so that the heavy-duty trunking cover can be screwed on later. The cassette unit does not receive any rubber strip.

30a



Remove quick connector.

30b



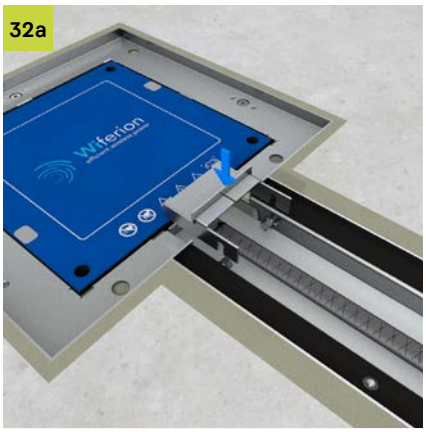
Insert the charging pad. Other charging pad sizes require an inlay to center the charging pad.

31



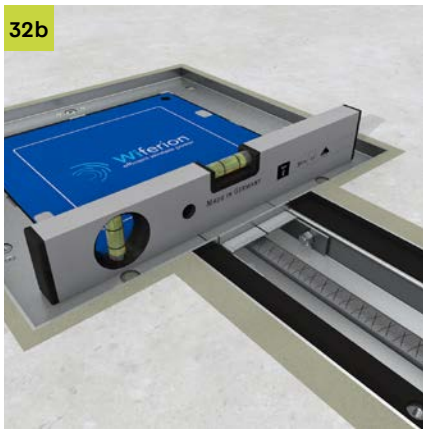
Dirt in the cassette or on the edge of the cassette must be avoided at all costs.

32a



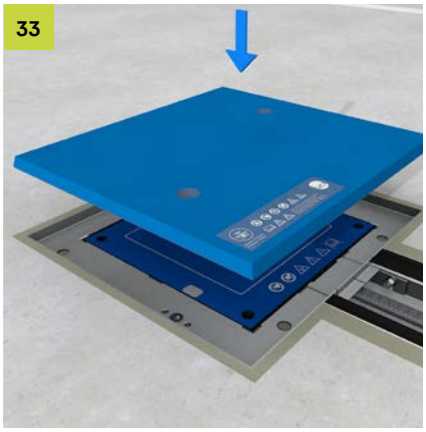
Hook the quick connector back in. Screw the quick connector and the channel together.

32b



The quick connector must be flat with the contact surface of the cassette.

33



Insert the PCX cover.

34a



To prevent water or dirt from entering the cassette, apply sealant to the joint between the PCX cover and the edge of the cassette.

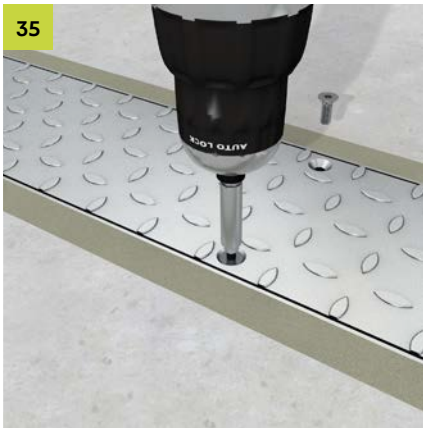
34b



To protect against water and dirt, apply sealant to the edge of the heavy-duty trunking before inserting the heavy duty trunking cover.



Apply sealant also to the cover joint.



Screw the trunking cover to the trunking tray using the screws supplied. Screw types: UKS M6x16 countersunk screw (ISO 10642).



The fully assembled WCPS system incl. charging pad must now be put into operation by a suitable specialist or the charging pad manufacturer.

Notes

For backfilling (Fig. 21), we recommend quick-hardening and low-shrinkage swelling grout or screed for the highest dynamic and static loads. It must be ensured here that no air holes remain under the channel. As a top layer for industrial floors, a high-performance 2K epoxy can be used, which is filled into a remaining ~10 mm deep joint.

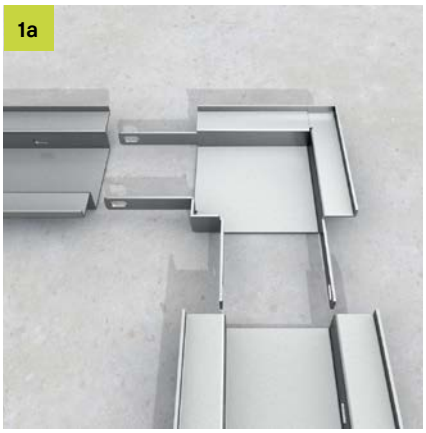
Before commissioning, a building inspection must be carried out. The documentation of the building inspection must be signed and sent to wcps@pohlcon.com.

Errors due to improper and unprofessional installation and resulting consequential damage lead to the exclusion of warranty claims.

With the help of a checklist, you can ensure that everything goes according to plan before, during and after the installation of WCPS.
If, contrary to expectations, no checklist is enclosed with the delivery, you can request one at wcps@pohlcon.com.

Assembly of T- and L-Connector

1a



Insert the L-connector into the channels.

1b



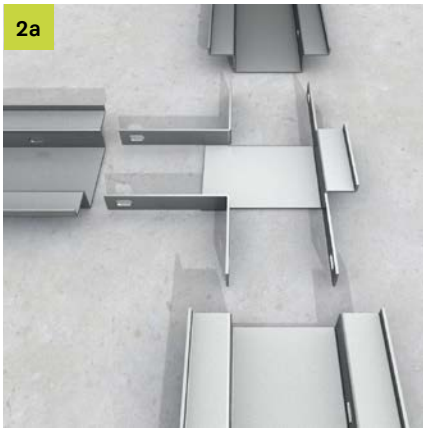
Then screw the L-connector and the duct segments together with FRSV 6x12 and SEMS 6 nuts.

1c



Tape off connection points and slots.

2a



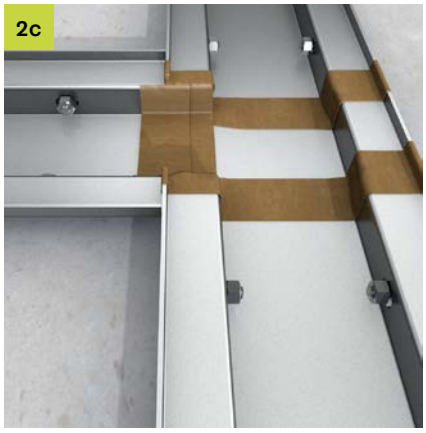
Insert the T-connector into the channels.

2b



Then screw the T-connector and the duct segments together with FRSV 6x12 and SEMS 6 nuts.

2c



Tape off connection points and slots.

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