**PA-R**

Roll-down grille

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GENERAL INFORMATION

Prior to installation, please read completely through this manual.

Cement will damage the grille surface. Keep the roll-down grille in the original packaging until it is installed. Before inserting the grille, the frame in the floor must have been completely mounted.

The inspection and installation of the grille must be carried out by qualified skilled personnel only in compliance with the current regulations.

If, after reading through the manual, you have further questions, please contact the manufacturer or the local sales office.

WARRANTY

The device warranty will be for two years starting from the handover date and shall apply to all production faults.

Also excluded from the warranty is damage caused by components that are not part of the device itself.

The warranty only covers the return and replacement of defective materials.

LIMITATION OF LIABILITY

SCHAKO shall not give any warranty for damage resulting from:

- Improper use caused by ignoring the instructions given in this manual
- Non-observance of the operating conditions of the device.
- Installation and maintenance by personnel without proper qualification.
- Improper use of the device or operation under conditions not conforming to the manual.

RECYCLING



SCHAKO recommends to recycle the device components at the end of service life of the device as much as possible or reuse them. Components that cannot be recycled must be properly disposed of by an authorized disposal company in accordance with current legal regulations.

REQUIRED MATERIALS AND TOOLS

- Measuring tape
- Crosshead screwdriver
- Holding tongs
- Pincers



DESIGNATED USE

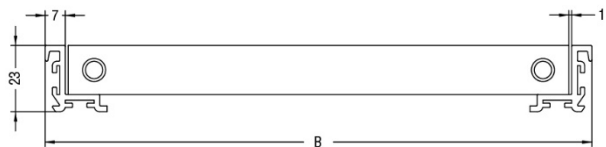
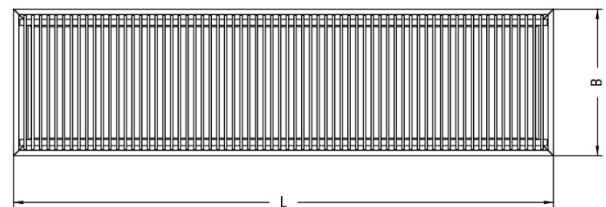
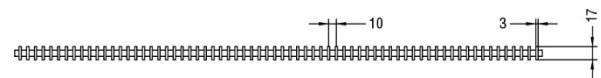
The SCHAKO roll-down grille is a walk-on grille for installation in convectors and floor ducts

Suitable for the interior use in non-corrosive areas.

On demand, a special version for the use in swimming pools is available. The grille cannot be used in areas surrounded by or in contact with water (danger of slipping).

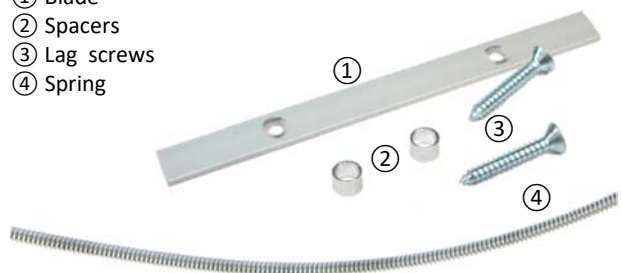
CONSTRUCTION

Grille with anodised aluminium blades and a free cross-section of approx. 70%.



IDENTIFICATION OF THE COMPONENTS

- ① Blade
- ② Spacers
- ③ Lag screws
- ④ Spring

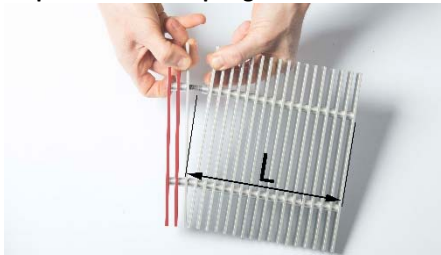


NOTE

If the grille is delivered rolled up, it is possible that the length directly after unpacking is larger than the ordered length. After some hours, the grille will return to its predefined length.

ADJUSTING THE GRILLE LENGTH

Step 1: Loosen the spring

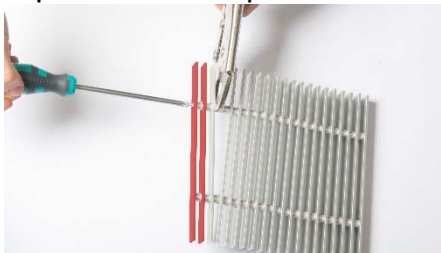


NOTE

If several holding tongs are available, the procedure can be carried out more quickly by processing all the springs at the same time.

- Measure the length of the frame on which the grille is to be placed.
- Adapt the holding tongs to the spring diameter.
- Separate the blades which are located in the exceeding part of the grille.
- Fasten the spring with the holding tongs.

Step 2: Remove the components



- Unscrew the screw.
- Remove the screw, the spacers and the desired blades.

NOTE

Do not dispose of the first blade removed! This is the only one provided with a counterbore and will be inserted again at the end of the process.



Step 3: Adjust the length



- Cut off the protruding part of the spring.

Step 4: Insertion



- Insert the removed blade and make sure that the counterbore points to the outside.
- Insert the lag screws and tighten them.
- Loosen the holding pliers.

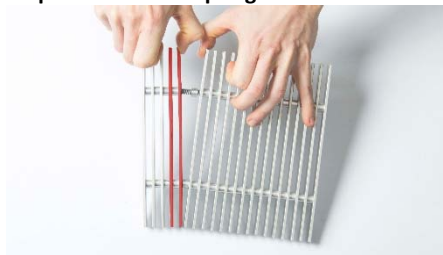
Step 6: Repeat the procedure for the other springs



- Repeat the procedure for the other springs (if a simultaneous processing was not possible).
- If the tension between the springs must be increased, the lag screw can be adjusted at the end of the process.

REPLACING THE BLADES

Step 1: Loosen the spring

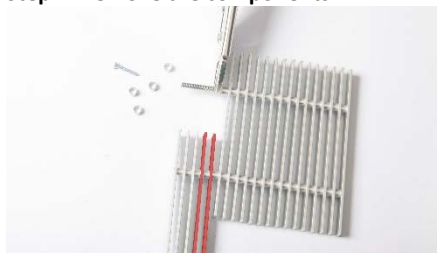


NOTE

If several holding tongs are available, the procedure can be carried out more quickly by processing all the springs at the same time.

- Adapt the holding tongs to the spring diameter.
- Tension one of the springs and separate the blade to be replaced from the rest.
- Fasten the spring with the holding tongs.

Step 2: Remove the components



- Unscrew the lag screws.
- Remove the lag screws, spacers and the desired blades.

NOTE

Do not dispose of the first blade removed! This is the only one provided with a counterbore and will be inserted again at the end of the process.

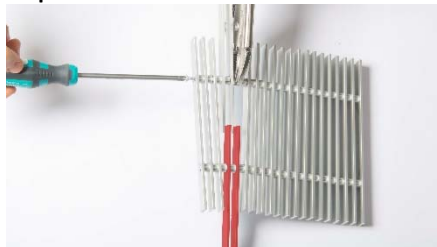


Step 3: Replace the defective blades



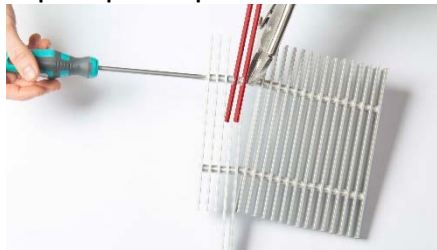
- Insert the new blades at their position.

Step 4: Insertion



- Insert the spacers and the blades that are not defective. At the end, insert the blade with counterbore!
- Insert the lag screws and tighten them.
- Loosen the holding pliers.

Step 4: Repeat the procedure for the other springs



- Repeat the procedure for the other springs (if a simultaneous processing was not possible).
- If the tension between the springs must be increased, the lag screw can be adjusted at the end of the process.