CONCRETE/SCREED PROFILES
PRODUCT INFORMATION

Protektor concrete and screed profiles enable you to perform concrete construction, screed and flooring work with optimum results – because many construction phases can be carried out much more easily and precisely. We achieve this through top quality and a sophisticated range: Protektor concrete and screed profiles are made of materials which stand out due to their premium quality and user benefits. In this catalogue, you will therefore find a selection of profiles which are perfectly adapted to the most common concrete and screed joints. Other solutions such as the step corner profile and the gravel trap are practical supplements to our range and support you in your daily work.
1. **Construction and press joints**

Construction and press joints are construction and press phases which occur during the installation of screed in large areas. The joints are usually filled with solid bond resin.

2. **Dummy joints**

Screed, particularly concrete screed, shrinks during drying, which can result in the formation of wild cracks. A dummy joint is a planned and defined crack in the screed (predetermined breaking point).

Timely planned joints in the flooring (e.g. tiles, ceramics, linoleum, etc.) make it possible to form clean and straight dummy joints in the screed with dummy joint profiles. Some dummy joint profiles effectively lock the screed plates in place. Dummy joints in door soffits and passageways should not be sealed or closed. When hammering down the dummy joint profiles, it is important to install them horizontally/vertically to ensure consistently high overlapping of the sides. Then the sides are covered with screed and smoothed.

In elastic and soft floorings (e.g. linoleum, carpeting, etc.), it is advisable to continue the dummy joint in the flooring with movement joint profiles. Otherwise it is possible that the dummy joints are visible in the flooring. This depends, however, on the quality and properties of the flooring, possible temperature fluctuations and expansion as well as formation and position of the dummy joint. In hard floorings (e.g. stone, ceramics, etc.), the joints must be continued in the flooring.

It is not part of the standard procedure or possible to fill screed with bond resin when dummy joints are already installed. As an alternative, the dummy joint can be made with a trowel groove and then filled with bond resin.

The screed specifications apply correspondingly to concrete floors.

3. **Movement joints**

Movement joints separate the screed. They interrupt heat and sound transmission and allow movement. Movement joints must extend to the insulation layer. Possible reinforcements in the screed must be separated. They must be formed with elastic material or a special movement joint profile in the flooring area.

According to DIN 18560-2, movement joints within screed surfaces must be secured against height offset if required. It must be ensured that the screed is dried properly; the use of screed plugs is recommended.

Especially suited solutions or movement joint profiles must be used for movement joints in the screed above building joints.

4. **Building joints**

Building joints completely separate the building, including base plate, screed and walls. Settlement in the building may also be expected. Building joints can be found in larger buildings, halls and annexes to existing buildings.

5. **Edge joints**

Edge joints separate the screed at walls, supports, door reveals, etc. and can be regarded as movement joints. They are usually constructed using edge strips.

**Notes**

Please comply with the corresponding guidelines and standards when installing concrete and screed profiles. The concrete and screed profiles are suitable for light to medium loads. This also depends, however, on the employed concrete and screed quality as well as the future use of loads on the floor and joint. The profiles are not suitable for e.g. heavy equipment, forklifts or dynamic loads. More information on the respective profiles can be found in the product overview.
# Concrete/Screed Profiles

## Product Information

### Overview of main applications

<table>
<thead>
<tr>
<th>Item number</th>
<th>Description</th>
<th>Material</th>
<th>Screed</th>
<th>Movement joints</th>
<th>Edge stop</th>
<th>Concrete floors, concrete slabs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dummy joints</td>
<td>Movement joints</td>
<td>Edge stop</td>
<td>Drip profile</td>
</tr>
<tr>
<td>3908</td>
<td>Dummy joint profile for concrete floors</td>
<td>Rigid PVC</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>3906</td>
<td>Dummy joint profile for screed</td>
<td>Rigid PVC</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1116</td>
<td>Dummy joint profile for screed</td>
<td>Galvanised steel</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>3914</td>
<td>Dummy joint profile for screed</td>
<td>Rigid PVC</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3915</td>
<td>Dummy joint profile for screed</td>
<td>Rigid PVC</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3917</td>
<td>Dummy joint profile for screed and concrete floors</td>
<td>Rigid PVC with foam pad</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>3929</td>
<td>Movement joint profile for screed</td>
<td>Rigid PVC with PE foam</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>3923</td>
<td>Movement joint profile for screed</td>
<td>Galvanised sheet steel with PE foam and steel plugs with polymer coating</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>3916</td>
<td>Movement joint profile for screed</td>
<td>Galvanised sheet steel with PE foam and steel plugs with polymer coating</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1275</td>
<td>Edge stop profile for screed</td>
<td>Galvanised steel</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1276</td>
<td>Edge stop profile for screed</td>
<td>Galvanised steel</td>
<td></td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>
CONCRETE/SCREED PROFILES
DUMMY JOINT PROFILE

Function:
• Dummy joint
• Drip profile
• Formwork stop
• Channel for cable routing
• Straight joint pattern

The dummy joint profile no. 3908 for concrete floors is used to create clean and straight dummy joints, and as a drip profile or formwork stop.

The channel in the profile can also be used to route cables. High stability is ensured by the profile’s wide contact surface.

Processing instructions:
The profile is installed before concreting. Place the profile on dabs of concrete, dabs spaced approx. 70–80 cm apart. Level the profile at the required height. A 1–2 mm joint is created along the profile by concrete shrinkage. Profile position and spacing depend on the planner’s specifications.

### Dummy joint profile for concrete floors

<table>
<thead>
<tr>
<th>Profile</th>
<th>Material</th>
<th>Lengths (cm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>3908</td>
<td>Rigid PVC</td>
<td>500</td>
<td>5 lengths/bundle</td>
</tr>
</tbody>
</table>
CONCRETE/SCREED PROFILES
DUMMY JOINT PROFILE

3906

Function:
• Dummy joint
• Drip profile
• Straight joint design

The dummy joint profile no. 3906 for screed is used to create clean and straight dummy joints, and as a drip profile.

Processing instructions:
The profile is installed during screed installation. Simply work the profile into the fresh screed. Level the profile at the required height. A 1–2 mm joint is created along the profile by concrete shrinkage. Profile position and spacing depend on the planner’s specifications.

Dummy joint profile for screed

<table>
<thead>
<tr>
<th>Profile</th>
<th>Material</th>
<th>Lengths (cm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>3906</td>
<td>Rigid PVC</td>
<td>300, 500</td>
<td>10 lengths/bundle</td>
</tr>
</tbody>
</table>
CONCRETE/SCREED PROFILES
DUMMY JOINT PROFILE

Function:
• Dummy joint
• Straight joint pattern
• Clean surface finish

The dummy joint profile no. 1116 for screed is used to create clean and straight dummy joints. The dummy joint profile effectively locks the screed plates in place.

Processing instructions:
The profile is installed during screed installation. Level the profile at the required height. When hammering down the dummy joint profiles, it is important to install them horizontally/vertically to ensure consistently high overlapping of the sides. The closed side of the profile must be installed upwards.

Dummy joint profile for screeds

<table>
<thead>
<tr>
<th>Profile</th>
<th>Material</th>
<th>Lengths (cm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>1116</td>
<td>Galvanised sheet steel</td>
<td>200</td>
<td>15 lengths/bundle</td>
</tr>
</tbody>
</table>
The dummy joint profile no. 3914 and no. 3915 for screed is used to create clean and straight dummy joints.

Processing instructions:
The profile is installed during screed installation. When hammering down the dummy joint profiles, it is important to align them horizontally/vertically to ensure consistently high overlapping of the sides. The higher side must be installed vertically.

<table>
<thead>
<tr>
<th>Profile</th>
<th>Material</th>
<th>Lengths (cm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>3914</td>
<td>Rigid PVC</td>
<td>250</td>
<td>40 lengths/bundle</td>
</tr>
<tr>
<td>3915</td>
<td>Rigid PVC</td>
<td>250</td>
<td>40 lengths/bundle</td>
</tr>
</tbody>
</table>
 Dummy joint profile for concrete floors and screed

<table>
<thead>
<tr>
<th>Profile</th>
<th>Material</th>
<th>Lengths (cm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>3917</td>
<td>PVC with foam pad</td>
<td>250</td>
<td>40 lengths/bundle</td>
</tr>
</tbody>
</table>
Function:
- Asymmetrical movement joint profile, for single or double installation
- Clean finishes with other components thank to asymmetrical shape
- Universally usable for different screed heights
- Safe decoupling
- Easy processing

The movement joint profile stands out due to its asymmetrical shape. The 95 mm high PE strip on the movement joint profile is elastic yet relatively dimensionally stable. This allows universal use of only one movement joint profile for different screed heights and helps to minimise stock inventory. The asymmetrical movement joint profile also enables double installation, thus ensuring higher movement absorption in the screed. The asymmetrical shape of the movement joint profile enables clean and de-coupled finishes with other components.

Processing instructions:
The profile is installed before screed installation. Install the profile according to the provided joint plan and glue onto the insulation or foil using the adhesive tape attached at the factory. The PE strip can be shortened to the required height depending on the application or after screed installation.

Movement joint profile for screed

<table>
<thead>
<tr>
<th>Profile</th>
<th>Material</th>
<th>Lengths (cm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>3929</td>
<td>Rigid PVC with PE foam</td>
<td>250</td>
<td>12 lengths/bundle</td>
</tr>
</tbody>
</table>
CONCRETE/SCREED PROFILES
MOVEMENT JOINT PROFILE

3923

Function:
- Movement joint
- Especially suited for floating screed
- Straight joint pattern
- Clean surface finish
- Shear force plug fastening
- Height offset

The movement joint profile no. 3923 for screed is used to create movement joints, with shear force plug fastening. The profile is especially suited for floating screed since the projecting foam strips prevent the floating screed from overflowing. The supplied screed plugs with low-friction and elastic polymer coating are inserted directly below the metal rail. The screed plugs enable shear force plug fastening and reduce any possible height offset in the screed. The heating pipes of the underfloor heating can be installed using the PE strips.

Processing instructions:
The profile is installed before screed installation. Install the profile according to the provided joint plan and seal with adhesive tape if required. Install the plugs perpendicularly to the joint and horizontally. Plugs should be spaced approx. 30 cm apart. Once the screed has dried, cut off the projecting foam strips flush with the screed surface. See processing example, similar to 3916.

Movement joint profile for screed

<table>
<thead>
<tr>
<th>Profile</th>
<th>Material</th>
<th>Lengths (cm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>3923</td>
<td>Galvanised sheet steel with PE foam</td>
<td>250</td>
<td>6 lengths/bundle including 54 screed plugs (no. 3940)</td>
</tr>
</tbody>
</table>
The movement joint profile no. 3916 for screed is used to create movement joints, with shear force plug fastening. The profile is especially suited for cement screed. Before installation, cut the profile to the required height and install at the required height. The cement screed can be smoothed to the upper edge of the profile for a clean finish. The supplied screed plugs with low-friction and elastic polymer coating are inserted directly below the metal rail. The screed plugs enable shear force plug fastening and reduce any possible height offset in the screed. The heating pipes of the underfloor heating can be installed using the PE strips.

Processing instructions:
The profile is installed before screed installation. Install the profile according to the provided joint plan. Install the plugs perpendicularly to the joint and horizontally. Plugs should be spaced approx. 30 cm apart. See processing example.

### Movement joint profile for screed

<table>
<thead>
<tr>
<th>Profile</th>
<th>Material</th>
<th>Lengths (cm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>3916</td>
<td>Galvanised sheet steel with PE foam</td>
<td>250</td>
<td>10 lengths/bundle including 90 screed plugs (no. 3940)</td>
</tr>
</tbody>
</table>
Trim the PE foam strip along the lower edge to the required height, according to the screed thickness. Mark and cut using an all-purpose blade.

Mark the openings for the heating pipes exactly. When the profile is used between door frames, cut it to length so that it can be easily clamped between the edge strips.

Exact pipe openings can be produced by puncturing the foam strip with a piece of pipe. Then cut through the foam strip with a straight cut downwards.

Place over the installed heating pipes and fix using dabs of mortar. Insert the plugs approx. 30 cm apart directly below the metal rail.
Function:
• Fixation and stabilisation of joint profiles
• Creation of straight joint patterns
• For de-coupled fixation of edge insulating strips

The self-adhesive mounting angle enables additional fixation and stabilisation of joint profiles. This makes it easier to create straight joints during screed installation. Decoupled fixation of edge strips is also possible with this profile.

Processing instructions:
Clean the surface/subsurface to be covered. Remove the protective foil from the required adhesive surfaces, place the mounting angle in the desired position and press on firmly.

Self-adhesive mounting angle

<table>
<thead>
<tr>
<th>Profile</th>
<th>Material</th>
<th>Lengths (cm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>3928</td>
<td>Rigid PVC</td>
<td>250</td>
<td>12 lengths/bundle</td>
</tr>
</tbody>
</table>

3940

- Screed plug 6 x 300 mm, with low-friction and elastic polymer coating
- Round-bar steel diameter 6 mm, length 300 mm
- Polymer coating diameter 8 mm, length 320 mm

The screed plug no. 3940 is used for shear force plug fastening of the screed, as well as reducing any possible height offset. The low-friction elastic polymer coating enables insertion into the screed and movement absorption. The plugs are installed perpendicularly to the joint and horizontally.

Note:
For the movement joint profile no. 3916 and no. 3923 the screed plugs are included in the delivery ex works in an appropriate quantity.
The edge stop profiles no. 1275 and no. 1276 for screed act as an edge stop and continue joints from the concrete base or create dummy joints.

Processing instructions:
The profile is installed before screed installation.
Do not use as an edge stop profile for acoustic insulation.

<table>
<thead>
<tr>
<th>Edge stop profiles for screed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Profile</strong></td>
</tr>
<tr>
<td>1275</td>
</tr>
<tr>
<td>1276</td>
</tr>
</tbody>
</table>
Heat conducting plates for effective floor heating

The heat conducting plates enable uniform and effective floor heating. The integrated predetermined breaking points in the heat conducting plates allow fast and easy processing.

- Material: galvanised steel
- Material thickness: 0.4 mm
- Length: 750 mm
- Width: 118 mm
- Predetermined breaking points: spaced 125 mm apart
- For heating pipes 14 mm in diameter

Processing instructions:

Place the heat conducting plates in the required position on the system plates and insert the heating pipe into the groove in the heat conducting plate. The heat conducting plates are suitable for dry screed, cement screed and floating screed.

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Heat conducting plates

<table>
<thead>
<tr>
<th>Profile</th>
<th>Material</th>
<th>Lengths (cm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>50414</td>
<td>Galvanised steel</td>
<td>75</td>
<td>37.5 m/carton</td>
</tr>
</tbody>
</table>
**Processing instructions:**

The gravel trap is suitable for floating balcony/patio tiles. The gravel trap must be spot fixed with a suitable adhesive. A suitable stable subsurface and structure must be installed as a subsurface for balcony and patio tiles. Suitable gravel/split must be compacted properly. The gravel trap must not be exposed to loads and movements caused by the balcony and patio tiles.
CONCRETE/SCREED PROFILES
GRAVEL TRAPS

**Gravel traps**

<table>
<thead>
<tr>
<th>Profile</th>
<th>Material</th>
<th>Lengths (cm)</th>
<th>Possible height (mm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>9361</td>
<td>Aluminium natural</td>
<td>250</td>
<td>50, 70</td>
<td>10 lengths/bundle</td>
</tr>
<tr>
<td>9424</td>
<td>Aluminium natural</td>
<td>250</td>
<td>80, 100</td>
<td>10 lengths/bundle</td>
</tr>
<tr>
<td>9423</td>
<td>Aluminium natural</td>
<td>250</td>
<td>80</td>
<td>10 lengths/bundle</td>
</tr>
<tr>
<td>9130</td>
<td>Aluminium natural</td>
<td>250</td>
<td>80, 90</td>
<td>10 lengths/bundle</td>
</tr>
<tr>
<td>9139</td>
<td>Aluminium natural</td>
<td>250</td>
<td>50, 70</td>
<td>10 lengths/bundle</td>
</tr>
<tr>
<td>9360</td>
<td>Aluminium natural</td>
<td>250</td>
<td>60</td>
<td>10 lengths/bundle</td>
</tr>
<tr>
<td>9421</td>
<td>Aluminium natural</td>
<td>250</td>
<td>100</td>
<td>10 lengths/bundle</td>
</tr>
</tbody>
</table>
Safety at every step and turn

Steps and stairs can pose a safety hazard. Especially in public buildings it is necessary to take appropriate precautions. The PROTEKTOR step corner profile is the perfect solution when safety combined with attractive accents and modern design is required. Thanks to the anti-slip moulding on the upper side, it reduces the risk of slipping on steps and stairs. At the same time, the sensitive lip of the steps is protected from wear and tear. The profile can also be used in case of repairs.

2000/2001

Tests:
- Anti-slip properties tested in accordance with DIN 51130 and BGR instruction sheet 181. Test result: R 10
- Displacement space determined in accordance with DIN 51130 and BGR instruction sheet 181. Evaluation group for displacement space: V 8

Applications:
- Prefabricated steps and stairs
- New construction of steps and stairs (cast-in-place concrete)
- Repair rail
- For indoors and outdoors (V2A, 1.4301)

Step corner profile

<table>
<thead>
<tr>
<th>Profile</th>
<th>Material</th>
<th>Lengths (cm)</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>Stainless</td>
<td>100, 110, 120, 130, 150</td>
<td>25 lengths/bundle</td>
</tr>
<tr>
<td>2001</td>
<td>Stainless</td>
<td>500 (+ short lengths)</td>
<td>12 or 25 lengths/bundle</td>
</tr>
</tbody>
</table>
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