INSTALLATION INSTRUCTIONS
EVERYTHING YOU NEED TO KNOW ABOUT INSTALLING HAURATON PRODUCTS
EVERYTHING YOU NEED TO KNOW ABOUT INSTALLING HAURATON PRODUCTS

DETAILED INSTALLATION INSTRUCTIONS FOR DIFFERENT APPLICATIONS AND LOAD CLASSES

Each single building component can prove its usefulness in function and reliability only once it has been installed in its final position. The prerequisite for that is that it has been installed correctly, which is not any different for HAURATON products.

We will give building contractors all our support for a successful completion of the job. Our detailed installation instructions and specifications contain everything you need to know about the installation in different applications and for different loading capacities. Where it is necessary to observe special details when installing our products, we will be happy to send one of our competent members of staff to the building site to discuss all relevant points and give valuable tips.

HAURATON installation instructions – so that the installation runs smoothly.
### CIVILS
Highly stable Fasermix Super Drainage Channels made of fibre reinforced concrete.

<table>
<thead>
<tr>
<th>Product</th>
<th>Code</th>
<th>Code</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fasermix Super KS</td>
<td>Super</td>
<td>Super</td>
<td>Super</td>
</tr>
<tr>
<td>Fasermix Point</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fasermix Big</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recyfix Super KS</td>
<td>Super</td>
<td>Super</td>
<td>Super</td>
</tr>
<tr>
<td>Recyfix Super X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fasermix Traffic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recyfix HiCap</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### LANDSCAPING
Versatile Drainage Range for all requirements of gardening and landscaping.

<table>
<thead>
<tr>
<th>Product</th>
<th>Code</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recyfix Plus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recyfix Standard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slotted Channels</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fasermix Standard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fasermix Big</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recyfix Green Super</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recyfix Green Standard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### AQUA
Intelligent Solutions for Water Treatment and Seepage.

<table>
<thead>
<tr>
<th>Product</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drainfix Bloc</td>
<td></td>
</tr>
<tr>
<td>Drainfix Twin</td>
<td></td>
</tr>
</tbody>
</table>

### SPORT
The comprehensive range for all sports facilities - installation examples for our sports facilities range are available on request.

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**Note:** Installation examples in the sections are ordered by load category, starting from the lowest.
LOAD CATEGORIES AND THEIR APPLICATION AREAS IN ACCORDANCE WITH DIN EN 1433

**CATEGORY A 15, LOAD CLASS 15 KN**
Domestic driveways, pedestrian areas, and cycle paths.

**CATEGORY B 125, LOAD CLASS 125 KN**
Footpaths, pedestrian zones, and similar areas, parking lots, and parking decks for passenger cars.

**CATEGORY C 250, LOAD CLASS 250 KN**
Road gutters, hard shoulders not exposed to traffic car parks not accessible to heavy wheel loads.

**CATEGORY D 400, LOAD CLASS 400 KN**
Carriageways, hard shoulders as well as parking areas accessible to all types of road vehicles.

**CATEGORY E 600, LOAD CLASS 600 KN**
Areas exposed to high wheel loads, e.g. ports and docks.

**CATEGORY F 900, LOAD CLASS 900 KN**
Areas exposed to particularly high wheel loads, e.g. air traffic areas.

IN CASES OF DOUBT THE HIGHER CATEGORY HAS TO BE CHOSEN!

**QUALITY CERTIFICATION IN ACC. WITH DIN EN ISO 9001:2000**
As one of the first companies in the building industry, HAURATON achieved quality certification in accordance with DIN EN ISO 9001 back in 1993. The quality requirements of the current DIN EN ISO 9001:2000 cover not only the products but the whole company, including development, design, production, assembly, and customer service. HAURATON’s quality management in accordance with DIN EN ISO 9001:2000 provides the highest degree of reliability and safety to our customers.

We hold General Building Control Approvals in acc. with the WHG (Water Resources Act) for the following channel systems:

- FASERFIX SUPER channels: approval no. Z-74.4-68
- FASERFIX BIG SL channels: approval no. Z-74.4-67
- FASERFIX BIG BL channels: approval no. Z-74.4-66
DEFINITION OF TYPES OF SLOPE

Run of channels without built-in fall. Water flows off due to the existing slope in the traffic area.

Run of channels with built-in fall. Water flows off due to continuous built-in fall.

Run of channels with built-in fall. Selected channels no. 10 - 20. High hydraulic capacity due to large back pressure depth.

Run of channels with built-in fall. Selected channels no. 1 - 20. Length of run with fall extended by channels without fall, 1 of type 05, 010, 015 and 020 each.

Run of channels with built-in fall. Long channel runs can be achieved with falls in two directions in the same run. Max. length of run with built-in fall: 40 m.

Run of channels without built-in fall. Water flows off due to step slope.

Channel runs can be connected to drainage canals via trash boxes or via end caps with horizontal UPVC outlet.
QUANTITIES OF JOINT SEALER REQUIRED FOR APPLICATIONS UNDER WHG (WATER RESOURCES ACT)

Consumption of elastic joint sealer Masterflex 700 FR gun grade ETA-05/0259, only for WHG applications with general building control approval, e.g. at filling stations

<table>
<thead>
<tr>
<th>Channels with general building control approval no. Z-74.4-68, no. Z-74.4-67, no. Z-74.4-66</th>
<th>Channel type</th>
<th>approx. length of joints up to top edge safety joint (mm)</th>
<th>approx. consumption in ml per joint / end cap incl. 15% spreading loss</th>
<th>approx. no. of butt joints per cartridge</th>
</tr>
</thead>
<tbody>
<tr>
<td>FASERFIX SUPER KS 100</td>
<td>01</td>
<td>245</td>
<td>34</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>010</td>
<td>350</td>
<td>48</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>020</td>
<td>470</td>
<td>65</td>
<td>6</td>
</tr>
<tr>
<td>FASERFIX SUPER 150</td>
<td>01</td>
<td>450</td>
<td>62</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>010</td>
<td>560</td>
<td>77</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>020</td>
<td>680</td>
<td>94</td>
<td>4</td>
</tr>
<tr>
<td>FASERFIX SUPER 200</td>
<td>01</td>
<td>570</td>
<td>79</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>010</td>
<td>660</td>
<td>91</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>020</td>
<td>760</td>
<td>105</td>
<td>4</td>
</tr>
<tr>
<td>FASERFIX SUPER 300</td>
<td>01</td>
<td>835</td>
<td>116</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>020</td>
<td>1230</td>
<td>169</td>
<td>2</td>
</tr>
<tr>
<td>FASERFIX SUPER 400</td>
<td>01</td>
<td>1055</td>
<td>145</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>01H</td>
<td>1245</td>
<td>172</td>
<td>2</td>
</tr>
<tr>
<td>FASERFIX SUPER 500</td>
<td>01</td>
<td>1290</td>
<td>178</td>
<td>2</td>
</tr>
<tr>
<td>FASERFIX BIG SL 100</td>
<td>20</td>
<td>715</td>
<td>99</td>
<td>4</td>
</tr>
<tr>
<td>FASERFIX BIG SL 150</td>
<td>020</td>
<td>810</td>
<td>112</td>
<td>4</td>
</tr>
<tr>
<td>FASERFIX BIG SL 200</td>
<td>020</td>
<td>940</td>
<td>129</td>
<td>3</td>
</tr>
<tr>
<td>FASERFIX BIG SL 300</td>
<td>010</td>
<td>1120</td>
<td>155</td>
<td>2</td>
</tr>
<tr>
<td>FASERFIX BIG BL 150</td>
<td>020</td>
<td>845</td>
<td>117</td>
<td>4</td>
</tr>
<tr>
<td>FASERFIX BIG BL 200</td>
<td>020</td>
<td>905</td>
<td>125</td>
<td>3</td>
</tr>
</tbody>
</table>

Masterflex 700 Primer ASP: for permeable surfaces, size of container 1 l, sufficient for approx. 80 lin m. of joint
Masterflex 700 Primer FE: for non permeable surfaces, size of container 1 l, sufficient for approx. 80 lin m. of joint / end cap / frame

Note:
The information provided here represents our best knowledge and experience to date. We reserve the right to make changes as technology advances and for the purpose of continuing product development. Users of the products are responsible for checking the functions and application options of these products by consulting with qualified engineers. The mentioning of trade names does not constitute a recommendation and does not preclude the use of other products with general building control approval that have been tested in the same way. For further information please refer to safety data sheet in accordance with 91/155/EEC from BASF Building Technology, Dept. Protection of the Environment, Tel. +49 334 38500, Fax: +49 334 3850135
**QUANTITIES OF JOINT SEALER REQUIRED FOR WATERTIGHT JOINTS**

**Consumption of RECYFIX Sealer Sikaflex TS Fast**

<table>
<thead>
<tr>
<th>Channels</th>
<th>Channel type</th>
<th>approx. consumption per butt joint</th>
<th>Channel butt joints per bag</th>
<th>approx. consumption per end cap</th>
</tr>
</thead>
<tbody>
<tr>
<td>FASERFIX TRAFFIC SUPERBLOC 200</td>
<td>020</td>
<td>80 g</td>
<td>8</td>
<td>81 g</td>
</tr>
<tr>
<td>RECYFIX PLUS 100, RECYFIX STANDARD 100</td>
<td>60 and 80</td>
<td>20 g</td>
<td>30</td>
<td>8 g</td>
</tr>
<tr>
<td></td>
<td>01</td>
<td>30 g</td>
<td>20</td>
<td>10 g</td>
</tr>
<tr>
<td></td>
<td>010</td>
<td>40 g</td>
<td>15</td>
<td>20 g</td>
</tr>
<tr>
<td>RECYFIX PLUS 150, RECYFIX STANDARD 150</td>
<td>01</td>
<td>60 g</td>
<td>10</td>
<td>20 g</td>
</tr>
<tr>
<td>RECYFIX PLUS 200, RECYFIX STANDARD 200</td>
<td>010</td>
<td>70 g</td>
<td>8</td>
<td>20 g</td>
</tr>
<tr>
<td>RECYFIX STANDARD 300</td>
<td>01</td>
<td>180 g</td>
<td>3</td>
<td>40 g</td>
</tr>
</tbody>
</table>

One bag of RECYFIX Sealer Sikaflex TS Fast contains 600 ml, equivalent to 660 g.
A suitable bag pistol dispenser is required for the RECYFIX Sealer bag.

For technical information sheet for Sikaflex TS Fast see: [http://www.sika.de/con-katalog-details.htm?id=14-8](http://www.sika.de/con-katalog-details.htm?id=14-8)
For safety data sheets for Sikaflex TS Fast see: [http://www.dichten-und-kleben.de/sikatackfolien.html](http://www.dichten-und-kleben.de/sikatackfolien.html)
Our installation instructions / examples are suggestions that are generally accepted in the trade. Any special installation details required due to local conditions need to be specified by a qualified engineer. Technical regulatory instruments and guidelines applicable in the respective state or country should be taken into account for installation. Additional requirements must be met when the products are installed at petrol stations / tank installations. For more detailed information please contact the manufacturer.

1. Please ensure that the adjoining surface finishes are laid to finish permanently 3 to 5 mm higher than the top edge of the channel.

2. Where the installed product is subject to horizontal forces, e.g. in concreted areas and reinforced concrete structures, effective expansion joints have to be provided in both directions in accordance with DIN 18318.

3. The rigidity of the side walls of the FASERFIX SUPER channel body ensures that the dynamic forces created during the correct installation of adjoining concrete, asphalt or paving areas will not cause any damage. No additional reinforcements are required.

4. When the products are installed in paved or slab-covered surfaces, the joint along the channels should be filled with a mineral- or bituminous compound. Installation in areas exposed to heavy loads, from category D 400: any dynamic thrust forces acting on the paving must not impact directly on the sidewalls of the channels but have to be transferred to the backing structure through direct contact, e.g. by installing the first 3 rows in a modified concrete bedding.

5. Where it is possible that extreme thrust forces occur, e.g. where there are significant gradients, special additional installation details are required by the installer. For further information please contact us.

6. Any safety joints installed in accordance with EN 1433 can be filled up to the top edge of the surface, if required.

Similarly, these instructions apply to gullies and points of entry. Where the channels are to be installed in paved areas with load classes D 400 to F 900, e.g. in air strips, logistic centres, container terminals, bus stations etc., the channel backing has to be increased and raised to the surface in the form of an in-situ concrete casing along the channel, with concrete quality at least C 30/37 X F4. The concrete casing should permanently stand up from the top edge of the channel by 3 to 5 mm. Where required, installers may opt to reinforce the concrete casing with reinforcement steel.

**INSTALLATION INSTRUCTIONS FOR SEALING JOINTS IN CONNECTION WITH FASERFIX SUPER CHANNELS IN ACCORDANCE WITH DIN EN 1433**

**Area of application:**
For permanently elastic connection points in cross joints of FASERFIX SUPER channels to meet the requirements of DIN EN 1433. For use internally and externally as well as for sealing face walls, gullies and the joints with the adjoining surface finishes along the channels.

**Substrate conditions:**
The surfaces to be bonded have to be sufficiently firm, dry, clean and free from oil and grease to ensure that bonding and curing is not adversely affected. Where these conditions are in question, it is possible to apply a priming coat to the contact surfaces. To bridge the gap between the channel joints before applying a permanently elastic joint filler, attach a self-adhesive masking tape or installation tape. This will prevent the joint sealer to bond with the floor of the joint. In the case of cut cross joints, insert a round closed-cell PE cord between the flanks of the joint.

**Installation instructions for joint sealers in cross joints:**
The filling of the joints has to ensure that the joint sealer can absorb any potential movements (i.e. bonding on both flanks of the joint). Once the joint has been filled with a sealer, use a smoothing compound to level the surface of the joint. Finally, use a soap solution to smooth off the surface of the joint. Where required, a joint can be made between the end of the cross joint and the joint with the surface covering along the channel.
INSTALLATION INSTRUCTIONS
FOR SEALING FACE WALLS AND TRASH BOXES:
Clean the face wall surfaces and apply the permanently elastic sealing compound with a cross section of 6 x 15 mm around the periphery. Then compress the joint to a minimum thickness of 2 mm and hold in that position for 24 hours. Any sealing compound squeezing out at the edges should be smoothed off as described above. When sealing the joints with trash boxes, proceed in a similar way with the respective contact surfaces. The components are sufficiently heavy to hold the joints in place. Surfaces regulated by the WHG (Water Resources Act) are subject to special requirements. For further information please contact us.

Note: The information provided here represents our best knowledge and experience to date. We reserve the right to make changes as technology advances and for the purpose of continuing product development. Users of the products are responsible for checking the functions and application options of these products by consulting with qualified engineers. The mentioning of trade names does not constitute a recommendation and does not preclude the use of other products that have been tested in the same way. For further information please refer to the respective safety data sheets or application areas, e.g. for elastic sealing compounds. Any new edition of this publication renders older editions invalid. Date: 01/07
**FASERFIX® SUPER KS / FASERFIX® SUPER**

**Description:**
Applying to following channel systems:

Category according to EN 1433 / DIN V 19580

- Foundation: with b / thickness d / height h (in cm)

The named concrete quality is a minimum quality as per:

- EN 206-1 / DIN 1045-2

- Without danger of frost on the lateral support
- With danger of frost on the lateral support

**Surface:**

- Condition: Our general installation instructions apply.

The installation examples / advice constantly are adapted to the technical conditions.

With new editions older expenditures lose their validity.

Before planning or installation please verify the current version at www.hauraton.com

**Drawing-no.:**

FF-S-200 Typ 010_Einbau Klasse C 250 in Beton_GB

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**Concrete:**

- C 20/25
- C 25/30 XF1

**FASERFIX SUPER KS 100, 150, 200, 300**

**FASERFIX SUPER 150, 200, 300, 400, 500**

**Installation example:**

Concrete cl. A 15 - C 250

- 3 - 5 mm
- 100 up to 150 cm
- h ≥ Channel height - 10 cm

**Concrete wearing layer**

**Base course**

**Frost resistant sub-base**

**Condition:**

26.02.2007

Condition: 26.02.2007

**Surface:**

Concrete
### Installation example

**Pavement cl. A 15 - C 250**

<table>
<thead>
<tr>
<th>Foundation: with b / thickness d / height h (in cm)</th>
<th>10 / 10 / *</th>
<th>10 / 10 / *</th>
<th>10 / 15 / *</th>
<th>400**</th>
<th>600</th>
<th>900</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foundation</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Without danger of frost on the lateral support</td>
<td>C 20/25</td>
<td>C 20/25</td>
<td>C 20/25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>With danger of frost on the lateral support</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>The named concrete quality is a minimum quality</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 206-1 / DIN 1045-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**The installation instructions are adapted to the technical conditions.**

With new editions older expenditures lose their validity.

Before planning or installation please verify the current version at [www.hauraton.com](http://www.hauraton.com).

**Condition:** 26.02.2007

**Our general installation instructions apply.**

**Surface:** Pavement

---

**Description:** FF-S-200 Typ 010, Einbau Klasse C 250 in Pflaster GB

**Drawing no.:** C:\pdm\we\inventor\2007\05\0000014827.idw

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Frost resistant sub-base

Base course

Pavement bedding

Pavement

3 - 5 mm
Installation example
Concrete cl. A 15 - C 250

* h = Channel height plus overhang

<table>
<thead>
<tr>
<th>Condition</th>
<th>Our general installation instructions apply.</th>
<th>Surface: Concrete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description:</td>
<td>FF-Flach-KS-100 Typ 80, Einbau Klasse C 250 in Beton</td>
<td>GB</td>
</tr>
<tr>
<td>Drawing-no.:</td>
<td>C:pdm\we\inventor\2007\05\0000014842.idw</td>
<td></td>
</tr>
</tbody>
</table>

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC.
Installation example
Concrete screed cl. A 15 - C 250

Condition: 26.02.2007
Our general installation instructions apply.
Surface: Concrete screed

Category according to EN 1433 / DIN V 19560
A 15 B 125 C 250 D 400** E 600 F 900

Foundation: width b / thickness d / height h (in cm)
10 / 2 / * 10 / 2 / * 10 / 2 / *

The named concrete quality is a minimum quality
EN 206-1 / DIN 1045-2
without danger of frost on the lateral support C 20/25 C 20/25 C 20/25
with danger of frost on the lateral support C 25/30 XF1 C 25/30 XF1 C 25/30 XF1

The installation examples shown currently are adapted to the technical conditions.
For new editions older expenditures lose their validity.
Before planning or installation please verify the correct version at www.hauraton.com

Concrete screed
Cement mortar
Expansion joint
If applicable elastic joint sealing

Installation example
Concrete screed cl. A 15 - C 250

Condition: 26.02.2007
Our general installation instructions apply.
Surface: Concrete screed

Category according to EN 1433 / DIN V 19560
A 15 B 125 C 250 D 400** E 600 F 900

Foundation: width b / thickness d / height h (in cm)
10 / 2 / * 10 / 2 / * 10 / 2 / *

The named concrete quality is a minimum quality
EN 206-1 / DIN 1045-2
without danger of frost on the lateral support C 20/25 C 20/25 C 20/25
with danger of frost on the lateral support C 25/30 XF1 C 25/30 XF1 C 25/30 XF1

The installation examples shown currently are adapted to the technical conditions.
For new editions older expenditures lose their validity.
Before planning or installation please verify the correct version at www.hauraton.com

Concrete screed
Cement mortar
Expansion joint
If applicable elastic joint sealing

* h = Channel height plus overhang

Concrete screed cl. A 15 - C 250

Condition: 26.02.2007
Our general installation instructions apply.
Surface: Concrete screed

Category according to EN 1433 / DIN V 19560
A 15 B 125 C 250 D 400** E 600 F 900

Foundation: width b / thickness d / height h (in cm)
10 / 2 / * 10 / 2 / * 10 / 2 / *

The named concrete quality is a minimum quality
EN 206-1 / DIN 1045-2
without danger of frost on the lateral support C 20/25 C 20/25 C 20/25
with danger of frost on the lateral support C 25/30 XF1 C 25/30 XF1 C 25/30 XF1

The installation examples shown currently are adapted to the technical conditions.
For new editions older expenditures lose their validity.
Before planning or installation please verify the correct version at www.hauraton.com

Concrete screed
Cement mortar
Expansion joint
If applicable elastic joint sealing

* h = Channel height plus overhang

Concrete screed cl. A 15 - C 250

Condition: 26.02.2007
Our general installation instructions apply.
Surface: Concrete screed

Category according to EN 1433 / DIN V 19560
A 15 B 125 C 250 D 400** E 600 F 900

Foundation: width b / thickness d / height h (in cm)
10 / 2 / * 10 / 2 / * 10 / 2 / *

The named concrete quality is a minimum quality
EN 206-1 / DIN 1045-2
without danger of frost on the lateral support C 20/25 C 20/25 C 20/25
with danger of frost on the lateral support C 25/30 XF1 C 25/30 XF1 C 25/30 XF1

The installation examples shown currently are adapted to the technical conditions.
For new editions older expenditures lose their validity.
Before planning or installation please verify the correct version at www.hauraton.com

Concrete screed
Cement mortar
Expansion joint
If applicable elastic joint sealing

* h = Channel height plus overhang

Concrete screed cl. A 15 - C 250

Condition: 26.02.2007
Our general installation instructions apply.
Surface: Concrete screed

Category according to EN 1433 / DIN V 19560
A 15 B 125 C 250 D 400** E 600 F 900

Foundation: width b / thickness d / height h (in cm)
10 / 2 / * 10 / 2 / * 10 / 2 / *

The named concrete quality is a minimum quality
EN 206-1 / DIN 1045-2
without danger of frost on the lateral support C 20/25 C 20/25 C 20/25
with danger of frost on the lateral support C 25/30 XF1 C 25/30 XF1 C 25/30 XF1

The installation examples shown currently are adapted to the technical conditions.
For new editions older expenditures lose their validity.
Before planning or installation please verify the correct version at www.hauraton.com

Concrete screed
Cement mortar
Expansion joint
If applicable elastic joint sealing

* h = Channel height plus overhang
Installation example
Concrete screed / Concrete cl. A 15 - C 250

Category according to EN 1433 / DIN V 19580
Anwendung auf die folgenden Kanalsysteme:

Foundation: with base b / thickness d / height h (in cm)
The named concrete quality is a minimum quality
EN 206-1 / DIN 1045-2

with danger of frost on the lateral support
without danger of frost on the lateral support

A 15 B 125 C 250 D 400** E 600 F 900

Surface: Condition: Our general installation instructions apply.

Concrete screed
Concrete or concrete

Drainage
Impermeable membrane
Coat tile

Bonding or compression-sealing flange

Foundation concrete (Install water permeable single-sized concrete at outlet position)

* h ≥ Half channel height

Conrete screed / Concrete cl. A 15 - C 250

If applicable elastic joint sealing
Expansion joint

3 - 5 mm

Condition: 22.02.2007

Our general installation instructions apply.

Surface: Concrete screed

<table>
<thead>
<tr>
<th>Category</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation: with base</td>
<td>10</td>
<td>5</td>
<td>10</td>
<td>5</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Foundation: without danger of frost on the lateral support</td>
<td>C 20/25</td>
<td>C 20/25</td>
<td>C 20/25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foundation: with danger of frost on the lateral support</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The installation examples / tables constantly are adapted to the technical conditions. With new editions the expenditure fees have validity. Before planning or installation please verify the current version at www.hauraton.com

FASErFIx® SUPER KS

Condition: 22.02.2007

Our general installation instructions apply.

Surface: Concrete screed

| Description: FF-Flach-KS-150 Typ 150 Einbau Klasse C 250 in Zementestrich GB |
| Drawing-no.: C:pdm\we\inventor\20070601\000014948.dwg |

FASErFIx® SUPER KS
**Description:** Applying to following channel systems:

Category according to EN 1433 / DIN V 19560

<table>
<thead>
<tr>
<th>Foundation: with b / thickness d / height h (in cm)</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>The named concrete quality is a minimum quality</td>
<td>10 / 5 / *</td>
<td>10 / 5 / *</td>
<td>10 / 5 / *</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Category according to EN 206-1 / DIN 1045-2

| without danger of frost on the lateral support | C 20/25 | C 20/25 | C 20/25 |         |       |       |
| with danger of frost on the lateral support    | C 25/30 XF1 | C 25/30 XF1 | C 25/30 XF1 |         |       |       |

Condition: 22.02.2007

**Our general installation instructions apply.**

Surface: Pavement

**Installation example**

Pavement cl. A 15 - C 250

- Foundation concrete (install water permeable single-sized concrete at outlet positions)
- Bording or compression sealing flange
- Pavement
- Pavement bedding
- Drainage
- Membrane protected by a concrete layer
- Sealing
- Ceiling tile

* $h \geq$ Half channel height

**In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC**

Before planning or installation please verify the current version at www.hauraton.com
Description: FF-KS-100 Typ 010 Einbau Kl D 400 in Asphalt mit Bordstein GB
Drawing-no.: C:\pdm\inventor\2007\05\0000014832.idw

**h > Channel height - 10 cm**

Category according to EN 1433 / DIN V 19580
- A 15
- B 125
- C 250
- D 400**
- E 600
- F 900

Applying to following channel systems:
- FASERFIX SUPER KS 100, 150, 200, 300
- FASERFIX SUPER 150, 200, 300, 400, 500

Foundation: with b / thickness d / height h (in cm)
- 10 / 15 / *
- 15 / 15 / *
- 15 / 15 / *

EN 206-1 / DIN 1045-2
- without danger of frost on the lateral support
- with danger of frost on the lateral support
- C 20/25
- C 20/25
- C 20/25
- C 20/25
- C 25/30 XF1
- C 25/30 XF1
- C 25/30 XF1
- C 25/30 XF1

Condition: 26.04.2007

Our general installation instructions apply.

Surface: Asphalt

FASERFIX® SUPER KS / FASERFIX® SUPER
**Installation example**

Concrete cl. A 15 - D 400**

Dynamic shearing forces on pavement / kerb must not affect the channel wall due to the friction connection with the haunching.

**Condition:** 26.02.2007

**Our general installation instructions apply.**

**Surface:** Concrete

**Description:** FF-KS-100 Typ 010 Einbau Kl D 400 in Beton mit Bordstein GB

**Drawing-no.:** C:\pdm\we\inventor\2007\05\0\0000014859.idw

---

**Category according to EN 1433 / DIN V 19580**

<table>
<thead>
<tr>
<th></th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation: width b / thickness d / height h (in cm)</td>
<td>10 / 15 / *</td>
<td>10 / 15 / *</td>
<td>15 / 15 / *</td>
<td>15 / 15 / *</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**The named concrete quality is a minimum quality**

<table>
<thead>
<tr>
<th>EN 206-1 / DIN 1045-2</th>
<th>Concrete quality of stretcher</th>
<th>Concrete quality of foundation</th>
</tr>
</thead>
<tbody>
<tr>
<td>C 30/37 XF4</td>
<td>C 30/37 XF4</td>
<td>C 30/37 XF4</td>
</tr>
<tr>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
</tr>
</tbody>
</table>

**Applying to following channel systems:**

- FASERFIX SUPER KS 100, 150, 200, 300
- FASERFIX SUPER 150, 200, 300, 400, 500

* h > Channel height - 10 cm

**On site installed expansion joint in order to prevent shearing forces that may affect channel wall or haunching**

**Concrete wearing layer**

**Base course**

**Frost resistant sub-base**

**On site installed reinforcement to connect the haunching concrete at construction joint**

---

**In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPER BLOC or FASERFIX TRAFFIC GUG BLOC.**
Description:
Applying to following channel systems:
Category according to EN 1433 / DIN V 19580
Foundation: with b / thickness d / height h (in cm)
The named concrete quality is a minimum quality
EN 206-1 / DIN 1045-2

Surface:
Condition: 22.02.2007
Our general installation instructions apply.

Category according to EN 1433 / DIN V 19580
Foundation: with b / thickness d / height h (in cm)
The named concrete quality is a minimum quality
EN 206-1 / DIN 1045-2

Condition: 22.02.2007
Our general installation instructions apply.
Surface: Asphalt

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUSIBLOC

Before planning or installing please verify the current version at www.hauraton.com

Asphalt cl. A 15 - E 600

Installation example

Wearing course
Binder course
Base course
Frost resistant sub-base

* h ≥ Channel height - 10 cm

10 / 15 / * 10 / 15 / * 15 / 15 / * 15 / 15 / * 15 / 20 / *
**Description:**
Applying to following channel systems:

Category according to EN 1433 / DIN V 19580

<table>
<thead>
<tr>
<th>Foundation: width b</th>
<th>thickness d</th>
<th>height h (in cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 15</td>
<td>B 125</td>
<td>C 250</td>
</tr>
<tr>
<td>15 / 15 / *</td>
<td>15 / 20 / *</td>
<td></td>
</tr>
</tbody>
</table>

Concrete quality of stretcher

<table>
<thead>
<tr>
<th>EN 206-1 / DIN 1045-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete quality of foundation</td>
</tr>
<tr>
<td>C 30/37 XF4</td>
</tr>
<tr>
<td>C 25/30 XF1</td>
</tr>
</tbody>
</table>

**Condition:** 26.04.2007

Our general installation instructions apply.

**Surface:** Pavement

**Installation example**
Pavement cl. D 400** - E 600

* h ≥ Channel height plus durable overhang

3 - 5 mm

In-situ concrete stretcher

Shear reinforcement bar Ø 10mm every 40 cm (optional)

The installation examples / cutouts constantly are adapted to the technical conditions. Read new editions and reissues always valid.

Before planning or installation please verify the current version at www.hauraton.com

**In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC.**
**Installation example**

**Pavement cl. D 400** - E 600

Dynamic shearing forces on pavement / kerb must not affect the channel wall due to the friction connection with the haunching.

- Min. 3 rows interlocking paver in modified concrete bedding - requested properties are frost and road salt resistant, non shrink, strength of concrete quality

**Surface:**
- Condition: 26.02.2007
- Our general installation instructions apply.

**Condition:**
- Frost resistant sub-base
- Base course
- Concrete block paving

**Category according to EN 1433 / DIN V 19580**
- A 15
- B 125
- C 250
- D 400**
- E 600
- F 900

**Foundation:**
- with b / thickness d / height h (in cm)
- EN 206-1 / DIN 1045-2
- EN 206-1 / DIN 1045-2
- with danger of frost on the lateral support
- without danger of frost on the lateral support

**The named concrete quality is a minimum quality**

**Condition:**
- Our general installation instructions apply.

**In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC.**
**Installation example**

**Concrete cl. D 400** - F 900

**Category according to EN 1433 / DIN V 19580**

<table>
<thead>
<tr>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>15/15/*</td>
<td>15/20/*</td>
<td>15/20/*</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Foundation: with b / thickness d / height h (in cm)**

- The named concrete quality is a minimum quality
- EN 206-1 / DIN 1045-2
- Without danger of frost on the lateral support
- With danger of frost on the lateral support

**Concrete**

- C 30/37 XF4
- C 25/30 XF1

**Surface:**

- Condition: 22.02.2007
- Our general installation instructions apply.
- Surface: Concrete

**Surface:**

- Description: FF-S-200 Typ 010 Einbau Klasse F 900 in Beton - GB
- Drawing-no.: C:\pdm\we\inventor\20070500000014822.idw

**Drawing details:**

- Drawing-no.: FF-S-200 Typ 010_Einbau Klasse F 900 in Beton_GB
- C:\pdm\we\inventor\20070500000014822.idw

**Legend:**

- Expansion joint
- Concrete wearing layer
- Base course
- Frost resistant sub-base

**Notes:**

- In Class D 400 not for use across the carriageway of highways or railroads in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC.
- **h = Channel height plus overhang**
- Shear reinforcement bar Ø 10 mm every 40 cm (optional)
**Description:**

Applying to following channel systems:

- FASERFIX SUPER KS 100, 150, 200, 300
- FASERFIX SUPER 150, 200, 300, 400, 500

**Foundation:** width b / thickness d / height h (in cm)

- EN 206-1 / DIN 1045-2
- Concrete quality of stretcher
- Concrete quality of foundation

**Surface:**

- Condition: 26.02.2007
- Our general installation instructions apply.
- Surface: Asphalt

**Drawing-no.:** C:\pdm\we\inventor\2007\05\0000014857.idw

**Shear reinforcement bar Ø 10mm every 40 cm (optional)**
**Installation example**  
**Pavement cl. A 15 - C 250**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Description</th>
<th>Surface</th>
</tr>
</thead>
<tbody>
<tr>
<td>22.02.2007</td>
<td>FF-POINT_SUPER-40x40 Einbau in Pflaster GB</td>
<td>Pavement</td>
</tr>
</tbody>
</table>

**Category according to EN 1433 / DIN V 19580**

<table>
<thead>
<tr>
<th>Foundation: with b / thickness d / height h (in cm)</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>The named concrete quality is a minimum quality.</td>
<td>10 / 10 / *</td>
<td>10 / 10 / *</td>
<td>10 / 15 / *</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 206-1 / DIN 1045-2 <strong>without danger of frost on the lateral support</strong></td>
<td>C 20/25</td>
<td>C 20/25</td>
<td>C 20/25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>with danger of frost on the lateral support</strong></td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Applying to following channel systems:**

- FASERFIX POINT SUPER 30x30
- FASERFIX POINT SUPER 40x40

**Our general installation instructions apply.**

**Condition:**
- Pavement cl. A 15
- C 20/25
- C 25/30

**Surface:**
- Pavement

**Notes:**
- * h > Gully height - 10 cm
- **In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC**

**Diagram:**
- Pavement
- Pavement bedding
- Base course
- Frost resistant sub-base
- Pipe
- 3 - 5 mm

* h > Gully height - 10 cm
Installation example
Asphalt cl. A 15 - E 600

Category according to EN 1433 / DIN V 19580

<table>
<thead>
<tr>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 / 10 / *</td>
<td>10 / 10 / *</td>
<td>10 / 15 / *</td>
<td>15 / 15 / *</td>
<td>15 / 20 / *</td>
<td></td>
</tr>
</tbody>
</table>

Foundation: with b / thickness d / height h (in cm)

The named concrete quality is a minimum quality

EN 206-1 / DIN 1045-2
without danger of frost on the lateral support
with danger of frost on the lateral support

EN 206-1 / DIN 1045-2

The installation examples / advice constantly are adapted to the technical conditions.

Our general installation instructions apply.

Surface: Asphalt

Description: FF-POINT SUPER-40x40 Einbau in Asphalt GB
Drawing-no.: C:\pdm\we\inventor\2007\05\01\\0000014798.idw

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC SUPERBLOC.

* h > Gully height - 10 cm

Condition: 22.02.2007
Description:
Applying to following channel systems:
Category according to EN 1433 / DIN V 19580
Foundation: with b / thickness d / height h (in cm)
The named concrete quality is a minimum quality EN 206-1 / DIN 1045-2
without danger of frost on the lateral support
with danger of frost on the lateral support
The installation examples / tables constantly are adapted to the technical conditions. For new editions older expenditures lose their validity. Before planning or installation please verify the current version at www.hauraton.com
Installation example
Concrete cl. A 15 - E 600
Condition: 22.02.2007
Our general installation instructions apply.
Surface: Concrete

<table>
<thead>
<tr>
<th>Category according to EN 1433 / DIN V 19580</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation: with b / thickness d / height h (in cm)</td>
<td>10 / 10 / *</td>
<td>10 / 10 / *</td>
<td>10 / 15 / *</td>
<td>10 / 15 / *</td>
<td>10 / 15 / *</td>
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<td>C 20/25</td>
<td>C 20/25</td>
<td>C 20/25</td>
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<td></td>
</tr>
<tr>
<td>EN 206-1 / DIN 1045-2 without danger of frost on the lateral support</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
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<td></td>
</tr>
<tr>
<td>with danger of frost on the lateral support</td>
<td>C 25/30 XF1</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPER Bloc or FASERFIX TRAFFIC GUGI-BLOC

* h > Gully height - 10 cm

Installation example
Concrete cl. A 15 - E 600
Condition: 22.02.2007
Our general installation instructions apply.
Surface: Concrete

<table>
<thead>
<tr>
<th>Foundation: with b / thickness d / height h (in cm)</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
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</tr>
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<tbody>
<tr>
<td>The named concrete quality is a minimum quality</td>
<td>C 20/25</td>
<td>C 20/25</td>
<td>C 20/25</td>
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</tr>
<tr>
<td>EN 206-1 / DIN 1045-2 without danger of frost on the lateral support</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>with danger of frost on the lateral support</td>
<td>C 25/30 XF1</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPER Bloc or FASERFIX TRAFFIC GUGI-BLOC

* h > Gully height - 10 cm
Our installation instructions / examples are suggestions that are generally accepted in the trade. Any special installation details required due to local conditions need to be specified by a qualified engineer. Technical regulatory instruments and guidelines applicable in the respective state or country should be taken into account for installation.

1. Please ensure that the adjoining surface finishes are laid to finish permanently 3 to 5 mm higher than the top edge of the channel.
2. Where the installed product is subject to horizontal forces, e.g. in concreted areas and reinforced concrete structures, effective expansion joints have to be provided in both directions. Any expansion forces of the concrete structure must not impact on the channels.
3. Large-format paving elements in concrete in accordance with KIWA guideline BRL 2310 can be laid, with a joint, directly adjacent FASERFIX BIG channels, in accordance with BRL 2319.
4. The safety joint between the channels has to be filled with joint compound on site. For details refer to IVD guidance note no. 6.
5. The subbase for the FASERFIX BIG channels has to be sufficiently compacted to ensure that channels cannot drop or give way.
6. The joint along the steel frame of the FASERFIX BIG channel does not have to be sealed to be leakproof. This joint just requires a simple grouting compound that is resistant to mineral oil.

These installation instructions apply similarly to inlet boxes.

**Substrate conditions:**
The surfaces to be bonded have to be sufficiently firm, dry, clean and free from oil and grease to ensure that bonding and curing is not adversely affected. Where these conditions are in question, it is possible to apply a priming coat to the contact surfaces. To bridge the gap between the channel joints before applying a permanently elastic joint filler attach a selfadhesive masking tape or installation tape. This will prevent the joint sealer to bond with the floor of the joint. In the case of cut cross joints, insert a round closed-cell PE cord between the flanks of the joint.

**Installation instructions for joint sealers in cross joints:**
The filling of the joints has to ensure that the joint sealer can absorb any potential movements (i.e. bonding on both flanks of the joint). When sealing the walls of FASERFIX BIG, a small rubber hose on the hand gun will facilitate work to the wall joints. Once the joint has been filled with a sealer, use a smoothing spatula to level the surface of the joint. Finally, use a soap solution to smooth off the surface of the joint. Where required, a joint can be made between the end of the cross joint and the joint with the surface covering along the channel.

**INSTALLATION INSTRUCTIONS FOR SEALING FACE WALLS AND GULLIES:**
Clean the face wall surfaces and apply the permanently elastic sealing compound with a cross section of 6 x 15 mm around the periphery. Then compress the joint to a minimum thickness of 2 mm and hold in that position for 24 hours. Any sealing compound squeezing out at the edges should be smoothed off as described above. When sealing the joints with sink boxes, proceed in a similar way with the respective contact surfaces. The components are sufficiently heavy to hold the joints in place. Surfaces regulated by the WHG (Water Resources Act) are subject to special requirements. For further information please contact us.

**Note:** The information provided here represents our best knowledge and experience to date. We reserve the right to make changes as technology advances and for the purpose of continuing product development. Users of the products are responsible for checking the functions and application options of these products by consulting with qualified engineers. The mentioning of trade names does not constitute a recommendation and does not preclude the use of other products that have been tested in the same way. For further information please refer to the respective safety data sheets or application areas, e.g. for elastic sealing compounds. Any new edition of this publication renders older editions invalid. Date: 01/07
**Actual Text Content Below the Image**

**Installation example**

Asphalt cl. D 400** - F 900

**Category according to EN 1433 / DIN V 19580**
- A 15
- B 125
- C 250
- D 400**
- E 600
- F 900

Applying to following channel systems:
- FASERFIX BIG BL 150, 200
- FASERFIX BIG SL 100, 150, 200, 300

**Foundation:**
- with b / thickness d / height h (in cm)
  - The named concrete quality is a minimum quality
  - EN 206-1 / DIN 1045-2
  - without danger of frost on the lateral support
  - with danger of frost on the lateral support

**Surface:**
- Condition: Our general installation instructions apply.
- Surface: Asphalt

**Condition:** 22.02.2007

**Our general installation instructions apply.**

**Drawing-no.**
- C:\pdm\we\inventor\2007050000014797.idw
**FASERFIX® BIG**

### Installation example

**Pavement cl. D 400** - F 900

**Category according to EN 1433 / DIN V 19580**

<table>
<thead>
<tr>
<th>Category</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
</table>

**Foundation:** with b / thickness d / height h (in cm)

The named concrete quality is a minimum quality EN 206-1 / DIN 1045-2

**Surface:**

**Condition:** 26.02.2007

Our general installation instructions apply.

**Surface:** Pavilion

---

**Description:** FF-BIG-S-200 BL Typ 020 Einbau Klasse E 600 in Pflaster GB

**Drawing-no.:** C:\pdm\we\inventor\2007\05\01\0000014423.idw

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**Expansión joint**

**Levelling course as necessary**

*Recommended minimum height is 5 cm*

*Height h is not applicable*

**Durable joint**

Sealing as necessary

**Pavement**

**Pavement bedding**

**Base course**

**Frost resistant sub-base**

**Drawing-no.** C:\pdmwe\inventor\2007\05\0\0000014829.idw

---

**In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC SUPERBLOC.**

---

**Before planning or installation please verify the current version at www.hauraton.com**
Installation example
Concrete cl. D 400** - F 900

Category according to EN 1433 / DIN V 19580

<table>
<thead>
<tr>
<th>Foundation: with b / thickness d / height h (in cm)</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>The named concrete quality is a minimum quality</td>
<td></td>
<td></td>
<td></td>
<td>10 / 15 / *</td>
<td>10 / 15 / *</td>
<td>10 / 15 / *</td>
</tr>
<tr>
<td>EN 206-1 / DIN 1045-2</td>
<td></td>
<td></td>
<td></td>
<td>C 20/25</td>
<td>C 20/25</td>
<td>C 20/25</td>
</tr>
<tr>
<td>without danger of frost on the lateral support</td>
<td></td>
<td></td>
<td></td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
</tr>
<tr>
<td>with danger of frost on the lateral support</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Frost resistant sub-base
Base course
Concrete wearing layer
Expansion joint
Durable joint
Sealing as necessary

* not applicable
(Recommended minimum height is 5 cm)

Surface: Concrete

Condition: 22.02.2007
Our general installation instructions apply.

Applying to following channel systems:
FASEFFIX BIG BL 150, 200
FASEFFIX BIG SL 100, 150, 200, 300

Description: FF-BIG-S-200 SL Typ 01, Einbau Klasse F 900 in Beton, GB
Drawing-no.: C:\pdm\we\inventor\200705\0000014799.idw

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASEFFIX TRAFFIC SUPERBLOC or FASEFFIX TRAFFIC GUGIBLOC

Before planning or installation please verify the current version at www.hauraton.com

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASEFFIX TRAFFIC SUPERBLOC or FASEFFIX TRAFFIC GUGIBLOC

Before planning or installation please verify the current version at www.hauraton.com
Our installation instructions / examples are suggestions that are generally accepted in the trade. Any special installation details required due to local conditions need to be specified by a qualified engineer. Technical regulatory instruments and guidelines applicable in the respective state or country should be taken into account for installation. Additional requirements must be met when the products are installed at petrol stations / tank installations. For more detailed information please contact the manufacturer.

1. Please ensure that the adjoining surface finishes are laid to finish permanently 3 to 5 mm higher than the top edge of the channel.

2. Where the installed product is subject to horizontal forces, e.g. in concreted areas and reinforced concrete structures, effective expansion joints have to be provided in both directions in accordance with DIN 18318.

3. The rigidity of the side walls of the RECYFIX SUPER channel body ensures that the dynamic forces created during the correct installation of adjoining concrete, asphalt or paving areas will not cause any damage. No additional reinforcements are required.

4. When the products are installed in paved or slab covered surfaces, the joint along the channels should be filled with a mineral or bituminous compound. Installation in areas exposed to heavy loads, from category D 400: any dynamic thrust forces acting on the paving must not impact directly on the side walls of the channels but have to be transferred to the backing structure through direct contact, e.g. by installing the first 3 rows in a modified concrete bedding.

5. Where it is possible that extreme thrust forces occur, e.g. where there are significant gradients, special additional installation details are required by the installer. For further information please contact us.

6. Any safety joints installed in accordance with EN 1433 can be filled up to the top edge of the surfacing, if required. Similarly, these instructions apply to gullies and points of entry. Where the channels are to be installed in paved areas with load classes D 400 to F 900, e.g. in air strips, logistic centres, container terminals, bus stations etc., the channel backing has to be increased and raised to the surface in the form of an in situ concrete casing along the channel, with concrete quality at least C 30/37 X F4. The concrete casing should permanently stand up from the top edge of the channel by 3 to 5 mm. Where required, installers may opt to reinforce the concrete casing with reinforcement steel.

INSTALLATION INSTRUCTIONS FOR SEALING JOINTS IN CONNECTION WITH FASERFIX SUPER CHANNELS IN ACCORDANCE WITH DIN EN 1433

Area of application:
For permanently elastic connection points in cross joints of RECYFIX SUPER channels to meet the requirements of DIN EN 1433. For use internally and externally as well as for sealing face walls, gullies and the joints with the adjoining surface finishes along the channels.

Substrate conditions:
The surfaces to be bonded have to be sufficiently firm, dry, clean and free from oil and grease to ensure that bonding and curing is not adversely affected. Where these conditions are in question, it is possible to apply a priming coat to the contact surfaces. To bridge the gap between the channel joints before applying a permanently elastic joint filler, attach a selfadhesive masking tape or installation tape. This will prevent the joint sealer to bond with the floor of the joint. In the case of cut cross joints, insert a round closed cell PE cord between the flanks of the joint.

Installation instructions for joint sealers in cross joints:
The filling of the joints has to ensure that the joint sealer can absorb any potential movements (i.e. bonding on both flanks of the joint). Once the joint has been filled with a sealer, use a smoothing compound to level the surface of the joint. Finally, use a soap solution to smooth off the surface of the joint. Where required, a joint can be made between the end of the cross joint and the joint with the surface covering along the channel.
INSTALLATION INSTRUCTIONS FOR SEALING FACE WALLS AND TRASH BOXES:

Clean the face wall surfaces and apply the permanently elastic sealing compound with a cross section of 6 x 15 mm around the periphery. Then compress the joint to a minimum thickness of 2 mm and hold in that position for 24 hours. Any sealing compound squeezing out at the edges should be smoothed off as described above.

When sealing the joints with trash boxes, proceed in a similar way with the respective contact surfaces. The components are sufficiently heavy to hold the joints in place. Surfaces regulated by the WHG (Water Resources Act) are subject to special requirements. For further information please contact us.

Note: The information provided here represents our best knowledge and experience to date. We reserve the right to make changes as technology advances and for the purpose of continuing product development. Users of the products are responsible for checking the functions and application options of these products by consulting with qualified engineers. The mentioning of trade names does not constitute a recommendation and does not preclude the use of other products that have been tested in the same way. For further information please refer to the respective safety data sheets or application areas, e.g. for elastic sealing compounds. Any new edition of this publication renders older editions invalid. Date: 01/07
**RECYFIX® SUPER KS**

**Category according to EN 1433 / DIN V 19580**

Foundation: with b / thickness d / height h (in cm)

The named concrete quality is a minimum quality EN 206-1 / DIN 1045-2

- Without danger of frost on the lateral support
- With danger of frost on the lateral support

**Surface:**

- Asphalt

**Condition:** 26.02.2007

**Drawing no.:** RF-KS-150 Typ 01_Einbau Klasse B 125 in Asphalt_GB

**Asphalt**

- C 20/25
- C 25/30
- XF1

**Wearing course**

**Binder course**

**Base course**

**Frost resistant sub-base**

**Cold bituminous joint pouring compound**

**Installation example**

Asphalt cl. A 15 - B 125

**Channel height - 8 cm**

- \( h \geq 3 - 5 \text{ mm} \)

**Notes:**

- In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC.

- Before planning or installation, please verify the current version at www.hauraton.com.
Installation example
Pavement cl. A 15 - B 125

Category according to EN 1433 / DIN V 19580

<table>
<thead>
<tr>
<th>Category</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation: with b / thickness d / height h (in cm)</td>
<td>10 / 10 / *</td>
<td>10 / 10 / *</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The named concrete quality is a minimum quality

EN 206-1 / DIN 1045-2

- without danger of frost on the lateral support
  - C 20/25
  - C 25/30 XF1
- with danger of frost on the lateral support
  - C 20/25
  - C 25/30 XF1

Condition: 22.02.2007

Our general installation instructions apply.

Surface: Pavement

Description: RF-KS-150 Typ 01_Einbau Klasse B 125 in Pfister_GB

Drawing-no.: C:\pdm\we\inventor\2007\05\0/000014789.idw

* h ≥ Channel height - 8 cm

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC.
Installation example
Pavement cl. C 250 - E 600

Category according to EN 1433 / DIN V 19580
<table>
<thead>
<tr>
<th></th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation: width b / thickness d / height h (in cm)</td>
<td>10 / 15 / *</td>
<td>15 / 15 / *</td>
<td>15 / 20 / *</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN 206-1 / Concrete quality of stretcher</td>
<td>C30/37 XF4 / C30/37 XF4 / C30/37 XF4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIN 1045-2 / Concrete quality of foundation</td>
<td>C25/30 XF1 / C25/30 XF1 / C25/30 XF1</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

The installation examples / guidelines are adapted to the technical conditions.
Enquiries or other questions must be sent to us. Before planning or installation please verify the current version at www.hauraton.com.

* h = Channel height plus overhang

The named concrete quality is a minimum quality.

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC SUPERBLOC Ø 10 mm every 40 cm (optional).

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC SUPERBLOC Ø 10 mm every 40 cm (optional)

Surface: Pavement
**Description:**
Applying to following channel systems:
Category according to EN 1433 / DIN V 19580
Foundation: with b / thickness d / height h (in cm)
The named concrete quality is a minimum quality
EN 206-1 / DIN 1045-2
without danger of frost on the lateral support
with danger of frost on the lateral support
Surface: Condition: Our general installation instructions apply.
**Installation example**
Asphalt cl. C 250 - E 600

<table>
<thead>
<tr>
<th>Category</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation</td>
<td>10 / 15 / *</td>
<td>15 / 15 / *</td>
<td>15 / 20 / *</td>
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<td></td>
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<td>The named concrete quality is a minimum quality</td>
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<td></td>
</tr>
<tr>
<td>EN 206-1 / DIN 1045-2</td>
<td>C 30/37 XF4</td>
<td>C 30/37 XF4</td>
<td>C 30/37 XF4</td>
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<td></td>
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<tr>
<td>** without danger of frost on the lateral support</td>
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</tr>
<tr>
<td>with danger of frost on the lateral support</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The installation examples / tables constant are adapted to the technical conditions. With new edition older expenditures lose their validity. Before planning or installation please verify the current version at www.hauraton.com

**Condition:** 22.02.2007

**Surface:** Asphalt

- Bituminous joint strip
- Wearing course
- Binder course
- Base course
- Frost resistant sub-base
- Shear reinforcement bar Ø 10 mm every 40 cm (optional)

* h = Channel height plus overhang

---

**Notes:**
**In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC.
**Description:**
Applying to following channel systems:

<table>
<thead>
<tr>
<th>Category according to EN 1433 / DIN V 19580</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation: width b / thickness d / height h (in cm)</td>
<td>10 / 10 / *</td>
<td>10 / 10 / *</td>
<td>10 / 15 / *</td>
<td>15 / 15 / *</td>
<td>15 / 15 / *</td>
<td>15 / 20 / *</td>
</tr>
</tbody>
</table>

**Concrete quality of stretcher**

<table>
<thead>
<tr>
<th>EN 206-1 / DIN 1045-2</th>
<th>Concrete quality of stretcher</th>
<th>Concrete quality of foundation</th>
</tr>
</thead>
<tbody>
<tr>
<td>C 30/37 XF4 / C 30/37 XF4</td>
<td>C 30/37 XF4 / C 30/37 XF4</td>
<td>C 30/37 XF4 / C 30/37 XF4</td>
</tr>
<tr>
<td>C 25/30 XF1 / C 25/30 XF1</td>
<td>C 25/30 XF1 / C 25/30 XF1</td>
<td>C 25/30 XF1 / C 25/30 XF1</td>
</tr>
</tbody>
</table>

**Concrete quality is a minimum quality**

* In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC.

**Condition:**
22.02.2007

**Our general installation instructions apply.**

**Surface:**
Concrete

**Installation example**
Concrete cl. A 15 - E 600

**Drawing-no.:**
C: \pdm\we\inventor\2007\05\01\0000014832.idw

**Expansion joint**

**Concrete wearing layer**

**Base course**

**Frost resistant sub-base**

**Shear reinforcement bar Ø 10mm**

every 40 cm (optional)

* h = Channel height plus overhang

**HAURATON**

**Werkstraße 13**

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**76437 Rastatt**

**Fax +49 (0) 72 22 0 58-100**

**Germany**

**info@hauron.com**
### Installation example

**Asphalt cl. D 400**

**Category according to EN 1433 / DIN V 19580**

<table>
<thead>
<tr>
<th>Foundation: with b / thickness d / height h (in cm)</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400*</th>
<th>E 600</th>
<th>F 900</th>
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</thead>
<tbody>
<tr>
<td>Without danger of frost on the lateral support</td>
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<td></td>
<td>15/15</td>
<td></td>
<td></td>
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<tr>
<td>With danger of frost on the lateral support</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>EN 206-1 / DIN 1045-2</th>
<th>Without danger of frost on the lateral support</th>
<th>C 30/37 XF4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>With danger of frost on the lateral support</td>
<td>C 25/30 XF1</td>
</tr>
</tbody>
</table>

**Condition:** 22.01.2007

**Our general installation instructions apply.**

**Surface:** Asphalt

**Description:** RF-Plus-X-300 Typ 01 Einbau Klasse D 400 in Asphalt GB

**EDV-Name:** C:\PDMWE\Inventor\2007\10\0000016470.idw

---

* h = Channel height plus overhang

**Bituminous joint strip**

**Covering layer**

**Binder course**

**Base course**

**Frost resistant sub-base**

**Shear reinforcement bar Ø10mm every 40 cm (optional)**

**Asphalt cl. D 400**

- 3 - 5 mm

**3 - 5 mm**

**Shear reinforcement bar Ø10mm every 40 cm (optional)**

**Condition:** 22.01.2007

**Our general installation instructions apply.**

**Surface:** Asphalt

**Description:** RF-Plus-X-300 Typ 01 Einbau Klasse D 400 in Asphalt GB

**EDV-Name:** C:\PDMWE\Inventor\2007\10\0000016470.idw

---

* h = Channel height plus overhang

**Bituminous joint strip**

**Covering layer**

**Binder course**

**Base course**

**Frost resistant sub-base**

**Shear reinforcement bar Ø10mm every 40 cm (optional)**

**Condition:** 22.01.2007

**Our general installation instructions apply.**

**Surface:** Asphalt

**Description:** RF-Plus-X-300 Typ 01 Einbau Klasse D 400 in Asphalt GB

**EDV-Name:** C:\PDMWE\Inventor\2007\10\0000016470.idw
Description: RF-Plus-X-300 Typ 01 Einbau Klasse D 400 in Beton GB
EDV-Name: C:\PDM\Inventor.2007\10\0\0000016471.idw

Condition: 24.04.2007
Our general installation instructions apply.
Surface: Concrete

Category according to EN 1433 / DIN V 19580
Foundation: with b / thickness d / height h (in cm)
The named concrete quality is a minimum quality
EN 206-1 / DIN 1045-2
without danger of frost on the lateral support
The installation examples / advices are adapted to the technical conditions.
Condition: Our general installation instructions apply.
Installation examples / advices are adapted to the technical conditions.
Concrete RECYFIX PLUS X 100, 150, 200, 300
Concrete cl. D 400

Concrete wearing layer
Base course
Frost resistant sub-base

* h = Channel height plus overhang

Shear reinforcement bar Ø10mm every 40 cm (optional)
Our installation instructions / examples are suggestions that are generally accepted in the trade. Any special installation details required due to local conditions need to be specified by a qualified engineer. Technical regulatory instruments and guidelines applicable in the respective state or country should be taken into account for installation.

1. Please ensure that the adjoining surface finishes are laid to finish permanently 3 to 5 mm higher than the top edge of the channel.
2. Where the installed product is subject to horizontal forces, e.g. in concreted areas and reinforced concrete structures, effective expansion joints have to be provided in both directions in accordance with DIN 18318.
3. The sides of the channel bodies are sufficiently strong to ensure that they will not be damaged by the impact of dynamic forces applied during appropriate concreting, asphaltling or paving of adjacent areas.
4. Where the channels are installed in paved / slab-covered areas, the joints along the channels have to be filled with a mineral or bituminous compound.
5. Where it is possible that extreme thrust forces occur, e.g. where there are significant gradients, special additional installation details are required by the installer. For further information please contact us.

SEALING CHANNELS IN ACCORDANCE WITH DIN EN 1433
During installation it is possible to seal joints in accordance with EN 1433. Please contact us to obtain sealing instructions.

Note: The information provided here represents our best knowledge and experience to date. We reserve the right to make changes as technology advances and for the purpose of continuing product development. Users of the products are responsible for checking the functions and application options of these products by consulting with qualified engineers. The mentioning of trade names does not constitute a recommendation and does not preclude the use of other products that have been tested in the same way. For further information please refer to the respective safety data sheets or application areas, e.g. for elastic sealing compounds. Any new edition of this publication renders older editions invalid. Date: 01/07
**Installation example**

Pavement cl. A 15 - C 250

---

**Description:**
Applying to following channel systems: Category according to EN 1433 / DIN V 19580

Foundation: with b / thickness d / height h (in cm)

The named concrete quality is a minimum quality EN 206-1 / DIN 1045-2

Without danger of frost on the lateral support

With danger of frost on the lateral support

Surface: Condition: Our general installation instructions apply.

With new editions older expenditures lose their validity. Before planning or installation please verify the current version at www.hauraton.com

**Drawing-no.:** C:pdm\we\inventor\20050901\0000009376.idw

**Pavement**

C 20/25 C 20/25 C 20/25

C 25/30 XF1 C 25/30 XF1 C 25/30 XF1

**FASERFIX-TRAFFIC-SUPERBLOC**

* h ≥ Channel height - 10 cm

For an additional fixation we recommend to the customer to insert Ø10mm reinforcing steel bars into the factory installed openings.

---

**Condition:** 26.02.2007

**Surface:** Pavement

**Our general installation instructions apply.**

**3 - 5 mm**

- Pavement
- Pavement bedding
- Base course
- Frost resistant sub base

---

**Category according to EN 1433 / DIN V 19580**

<table>
<thead>
<tr>
<th></th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
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</thead>
<tbody>
<tr>
<td>Foundation: with b / thickness d / height h (in cm)</td>
<td>10 / 10 / *</td>
<td>10 / 10 / *</td>
<td>10 / 15 / *</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**EN 206-1 / DIN 1045-2**

- Without danger of frost on the lateral support: C 20/25
- With danger of frost on the lateral support: C 25/30 XF1

---

**For an additional fixation we recommend to the customer to insert Ø10mm reinforcing steel bars into the factory installed openings.**
**Description:**
Applying to following channel systems: 
FASEFFIX TRAFFIC SUPERBLOC

**Foundation:**
- with b / thickness d / height h (in cm)

The named concrete quality is a minimum quality 
EN 206-1 / DIN 1045-2
- without danger of frost on the lateral support
- with danger of frost on the lateral support

**Surface:**
- Condition: 26.02.2007
- Our general installation instructions apply.
- Pavement

**Drawing-no.:**
- FF-SB-200 Typ 020 Einbau Klasse E 600 in Pflaster GB
- C:\pdm\we\inventor\2005\08\01\00000000009025.idw

* h ≥ channel height - 10 cm

The first three rows of paving along the channel embedded in concrete

For additional fixing we recommend to the customer to insert Ø10mm reinforcing steel bars into the factory installed openings.
**Installation example**

Asphalt cl. A 15 - F 900

**Description:**
Applying to following channel systems:
Category according to EN 1433 / DIN V 19580
Foundation: with b / thickness d / height h (in cm)
The named concrete quality is a minimum quality
EN 206-1 / DIN 1045-2
without danger of frost on the lateral support
with danger of frost on the lateral support

**Surface:** Asphalt

**Condition:** 26.02.2007

**Our general installation instructions apply.**

**Drawing-no.:** C:\pdm\we\inventor\2007\05\0000014830.idw

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**Table:**

<table>
<thead>
<tr>
<th>Category according to EN 1433 / DIN V 19580</th>
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<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
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<td>15 / 15 / *</td>
<td>15 / 20 / *</td>
<td>15 / 20 / *</td>
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<tr>
<td>without danger of frost on the lateral support</td>
<td>C 20/25</td>
<td>C 20/25</td>
<td>C 20/25</td>
<td>C 20/25</td>
<td>C 20/25</td>
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<tr>
<td>with danger of frost on the lateral support</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
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</tbody>
</table>

---

**Notes:**

- In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC.
- The installation examples / cadres constantly are adapted to the technical conditions.
- We reserve the right to alter our products without prior notice.
- Before planning or installation please verify the current version at www.hauraton.com.

---

**For additional safety we recommend to insert reinforcement steel bars Ø 10mm in the factory-finished holes.**
**Installation example**

Concrete cl. A 15 - F 900

---

**Category according to EN 1433 / DIN V 19580**

<table>
<thead>
<tr>
<th>Foundation: with b / thickness d / height h (in cm)</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
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</thead>
<tbody>
<tr>
<td>The named concrete quality is a minimum quality</td>
<td>10 / 15 / **</td>
<td>10 / 15 / **</td>
<td>15 / 15 / **</td>
<td>15 / 20 / **</td>
<td>15 / 20 / **</td>
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</tbody>
</table>

**EN 206-1 / DIN 1045-2**

- without danger of frost on the lateral support: C 20/25, C 20/25, C 20/25, C 20/25, C 20/25, C 20/25, C 20/25, C 20/25, C 20/25
- with danger of frost on the lateral support: C 25/30 XF1, C 25/30 XF1, C 25/30 XF1, C 25/30 XF1, C 25/30 XF1, C 25/30 XF1

**Condition:** 26.02.2007

Our general installation instructions apply.

**Surface:** Concrete

---

For an additional fixation we recommend to the customer to insert Ø10mm reinforcing steel bars into the factory installed openings.

* h ≥ channel height - 10 cm

Expansion joint

Concrete slab

Base course

Frost resistant sub base

---

**Description:** FF-SB-200 Typ 020 Einbau Klasse F 900 in Beton GB

**Drawing no.:** C:\pdm\we\inventor\2005\08\01\0000009026.idw
Installation example
Concrete up to cl. E 600

Applying to following channel systems:
Category according to EN 1433
Foundation: width b / thickness d / height h (in cm)
EN 206-1 / DIN 1045-2
Concrete quality of stretcher
Concrete quality of foundation
Surface: Condition: Our general installation instructions apply.

The named concrete quality is a minimum quality

The installation examples / orders constantly are adapted to the technical conditions.
With new editions older expenditures lose their validity.
Before planning or installation please visit the current version at www.hauraton.com

Concrete:

Concrete up to cl. E 600

Roadway concrete
Base course
Frost resistant sub-base

Min. b, max. 150 cm
3-5 mm
Expansion joint

approx. 36 o. 46 cm

Condition: 01.10.2007
Our general installation instructions apply.

Surface: Concrete

Description: RF-HICAP-100 Typ 265-200 Einbau Klasse C 250 in Beton GB
EDV-Name: C:\PDMWE\Inventor\2007\10\0\000016551.idw
Installation example
Asphalt up to cl. E 600

Category according to EN 1433

<table>
<thead>
<tr>
<th>Foundation: width b / thickness d / height h (in cm)</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400</th>
<th>E 600</th>
<th>F 900</th>
</tr>
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<tr>
<td>EN 206-1 / Concrete quality of stretcher</td>
<td>C 30/37 XF4</td>
<td>C 30/37 XF4</td>
<td>C 30/37 XF4</td>
<td>C 30/37 XF4</td>
<td>C 30/37 XF4</td>
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<tr>
<td>EN 1045-2 / Concrete quality of foundation</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
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<td>C 25/30 XF1</td>
</tr>
</tbody>
</table>

The named concrete quality is a minimum quality

The installation examples / advice constantly are adapted to the technical conditions.

Surface: Asphalt

Condition: 01.03.2007

Our general installation instructions apply.

Before planning or installation please verify the current version at www.hauraton.com

RECYFIX HICAP 200 Typ 465/200

Asphalt

C 30/37 XF4

C 25/30 XF1

Wearing course
Binder course
Base course
Frost resistant sub-base

3 - 5 mm

Bituminous joint strip

approx. 46 o. 56 cm

approx. 82 o. 87 cm
Description: Applying to following channel systems: Category according to EN 1433
Foundation: width b / thickness d / height h (in cm) EN 206-1 / DIN 1045-2
Concrete quality of stretcher Concrete quality of foundation
A 15 B 125 C 250 D 400 E 600 F 900
Concrete quality is a minimum quality. The named concrete quality is a minimum quality.

Condition: 01.03.2007 Our general installation instructions apply.

Surface: Pavement

Pavement bedding
Base course
Frost resistant sub-base
Pavement
**Installation example**

Concrete up to cl. E 600

---

**Description:**

Applying to following channel systems:

- RECYFIX HICAP 200 Typ 465/200

**Category according to EN 1433**

<table>
<thead>
<tr>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400</th>
<th>E 600</th>
<th>F 900</th>
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<td>10 / 15 / 55</td>
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<td>10 / 15 / 55</td>
<td>15 / 15 / 55</td>
<td>15 / 20 / 55</td>
<td></td>
</tr>
</tbody>
</table>

**Concrete quality of stretcher**

- EN 206-1
- DIN 1045-2

- C 30/37 XF4
- C 30/37 XF4
- C 30/37 XF4
- C 30/37 XF4
- C 30/37 XF1
- C 30/37 XF1
- C 30/37 XF1
- C 30/37 XF1

**Concrete quality of foundation**

- C 25/30 XF1
- C 25/30 XF1
- C 25/30 XF1
- C 25/30 XF1
- C 25/30 XF1
- C 25/30 XF1
- C 25/30 XF1
- C 25/30 XF1

**Surface:**

Concrete

**Condition:**

01.03.2007

**Our general installation instructions apply.**

---

**Drawing-no.:**

C:\pdm\we\inventor\2007\05\01\0000014848.idw

---

**Conclusion:**

Before planning or installation, please verify the current version at www.hauraton.com.
Category according to EN 1433

<table>
<thead>
<tr>
<th>Foundation: width b / thickness d / height h (in cm)</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400</th>
<th>E 600</th>
<th>F 900</th>
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<tr>
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<td>15 / 20 / 65</td>
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<tr>
<td>Concrete quality of foundation</td>
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<td></td>
<td></td>
<td>C 30/37 XF4</td>
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<tr>
<td>EN 206-1 / DIN 1045-2</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>C 25/30 XF1</td>
</tr>
</tbody>
</table>

The named concrete quality is a minimum quality.

Condition: 01.03.2007

Our general installation instructions apply.

Surface: Concrete

Description: RF-HICAP-200 Typ 465/300 Einbau Klasse F 900 in Beton GB

Drawing-no.: C:\pdm\we\inventor\20070501\0000014849.idw

Applying to following channel systems:

RECYFIX HICAP 200 Typ 465/300

Installation example
Concrete cl. F 900

Roadway concrete

Base course

Frost resistant sub-base

min. b, max. 150 cm

3 - 5 mm

(approx. 92 cm)

(approx. 56 cm)

Expansion joint

b

h

d

The installation examples / options constantly are adapted to the technical conditions.
Before planning or installation please visit the current version at www.hauraton.com

Before planning or installation please visit the current version at www.hauraton.com
RECYFIX® PLUS / RECYFIX® STANDARD – INSTALLATION INSTRUCTIONS

Our installation instructions / examples are suggestions that are generally accepted in the trade. Any special installation details required due to local conditions need to be specified by a qualified engineer.

Technical regulatory instruments and guidelines applicable in the respective state or country should be taken into account for installation.

1. Please ensure that the adjoining surface finishes are laid to finish permanently 3 to 5 mm higher than the top edge of the channel.
2. Dig a trench and set the outlet for connecting to the ground drainage pipe. First set the inlet box or the first channel directly adjacent to the ground drainage pipe and join them up.
   Join up the next channel elements using the tongue and groove joint in the units. Make sure to observe the direction of the arrow on the channels.
3. Place the end cap and keep the grating inserted for reinforcement. Prepare the lateral concrete bearing. Please consider therefore the information on the installation drawings depending on the installation situation and the required load class.
4. Where the installed product is subject to horizontal forces, e.g. in concreted areas and reinforced concrete structures, effective expansion joints have to be provided in both directions in accordance with DIN 18318.
5. Where the products are installed in paved surfaces, the joint along the channels should be filled with paving gravel or bitumen compound.

These installation instructions apply similarly to inlet boxes.

Note: The information provided here represents our best knowledge and experience to date. We reserve the right to make changes as technology advances and for the purpose of continuing product development. Users of the products are responsible for checking the functions and application options of these products by consulting with qualified engineers. The mentioning of trade names does not constitute a recommendation and does not preclude the use of other products that have been tested in the same way. For further information please refer to the respective safety data sheets or application areas, e.g. for elastic sealing compounds. Any new edition of this publication renders older editions invalid. Date: 01/07

Look up our current installation instructions on the internet under www.hauraton.com
**Installation example**

**Pavement cl. A 15 - B 125**

- **Foundation:** with b / thickness d / height h (in cm)
  - A 15: 10 / 10 / *
  - B 125: 10 / 10 / *
  - C 250: 10 / 10 / *
  - D 400**: 10 / 10 / *
  - E 600: 10 / 10 / *
  - F 900: 10 / 10 / *

- **Surface:**
  - **Condition:** 22.02.2007
  - **Our general installation instructions apply.**
  - **Pavement**

- **Applying to following channel systems:**
  - RECYFIX STANDARD 100, 150, 200, 300
  - RECYFIX PLUS 100, 150, 200, 300

- **Description:** RF-Sta-100 Typ 01 Einbau Klasse B 125 in Pflaster GB

- **Drawing-no.:** C:\pdm\we\inventor\2007050\000014781.idw

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* h ≥ Channel height -10 cm

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<table>
<thead>
<tr>
<th>Category according to EN 1433 / DIN V 19580</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation: with b / thickness d / height h (in cm)</td>
<td>10 / 10 / *</td>
<td>10 / 10 / *</td>
<td>10 / 10 / *</td>
<td>10 / 10 / *</td>
<td>10 / 10 / *</td>
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</tr>
<tr>
<td>EN 206-1 / DIN 1045-2</td>
<td>C 20/25</td>
<td>C 20/25</td>
<td>C 25/30 XF1</td>
<td>C 25/30 XF1</td>
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<tr>
<td>without danger of frost on the lateral support</td>
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<tr>
<td>with danger of frost on the lateral support</td>
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</tr>
</tbody>
</table>

---

**Frost resistant sub-base**

---

**Note:**
- The installation examples / tables constantly are adapted to the technical conditions.
- New editions of this publication replace older editions.
- For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC.

---

**Condition:**
- 22.02.2007
- Our general installation instructions apply.
- Pavement
Installation example
Concrete screed cl. A 15 - B 125
The installation into carriageways of parking spaces is not allowed!

* h = Channel height plus overhang

Category according to EN 1433 / DIN V 19580
A 15 B 125 C 250 D 400** E 600 F 900
Applying to following channel systems:
RECYFIX STANDARD 100, Typ 60, Typ 80
RECYFIX PLUS 100, Typ 60, Typ 80

Foundation:
- width b / thickness d / height h (in cm)
  - EN 206-1 / DIN 1045-2
  - without danger of frost on the lateral support
  - with danger of frost on the lateral support

The named concrete quality is a minimum quality
EN 206-1 / DIN 1045-2
- without danger of frost on the lateral support
  - C 20/25
  - C 25/30 XF1
- with danger of frost on the lateral support
  - C 25/30 XF1

Concrete screed
RECYFIX STANDARD 100, Typ 60, Typ 80
RECYFIX PLUS 100, Typ 60, Typ 80

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC.

Condition: 12.03.2007
Our general installation instructions apply.
Surface: Concrete screed

Possibly sealed up surface
Expansion joint
Concrete screed
Coat or floor tile

Concrete screed
3 - 5 mm
Installation example
Concrete screed cl. A 15 - B 125
The installation into carriageways of parking spaces is not allowed!

Category according to EN 1433 / DIN V 19580
- A 15
- B 125
- C 250
- D 400**
- E 600
- F 900
Applying to following channel systems:
- RECYFIX STANDARD 100, Typ 50

Foundation: width b / thickness d / height h (in cm)
- EN 206-1 / DIN 1045-2
without danger of frost on the lateral support
- 5 / 2 / *
- 5 / 2 / *
with danger of frost on the lateral support
- C 20/25
- C 20/25
- C 25/30 XF1
- C 25/30 XF1

The named concrete quality is a minimum quality.

Concrete screed cl. A 15 - B 125

Condition: 26.04.2006
Our general installation instructions apply.
Surface: Concrete screed

Possibly sealed up surface
Expansion joint
Concrete screed
Concrete slab

* h = Channel height plus overhang
### Installation example

**Asphalt cl. A 15 - C 250**

#### Condition: 22.02.2007

**Our general installation instructions apply.**

**Surface:** Asphalt

---

**Category according to EN 1433 / DIN V 19580**

<table>
<thead>
<tr>
<th></th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation: with b / thickness d / height h (in cm)</td>
<td>10 / 10 / *</td>
<td>10 / 10 / *</td>
<td>10 / 15 / *</td>
<td></td>
<td></td>
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<tr>
<td>EN 206-1 / DIN 1045-2</td>
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</tr>
<tr>
<td>without danger of frost on the lateral support</td>
<td>C 20 / 25</td>
<td>C 20 / 25</td>
<td>C 20 / 25</td>
<td>C 20 / 25</td>
<td>C 20 / 25</td>
<td>C 20 / 25</td>
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<tr>
<td>with danger of frost on the lateral support</td>
<td>C 25 / 30 XF1</td>
<td>C 25 / 30 XF1</td>
<td>C 25 / 30 XF1</td>
<td>C 25 / 30 XF1</td>
<td>C 25 / 30 XF1</td>
<td>C 25 / 30 XF1</td>
</tr>
</tbody>
</table>

**Applying to following channel systems:**

- RECYIFX STANDARD 100, 150, 200, 300
- RECYIFX PLUS 100, 150, 200, 300

---

* h ≥ Channel height - 4 cm

---

**Description:**

- Applying to following channel systems: Category according to EN 1433 / DIN V 19580
- Foundation: with b / thickness d / height h (in cm)
- The named concrete quality is a minimum quality EN 206-1 / DIN 1045-2
- The installation examples / release conditions are adapted to the technical conditions. With new editions older instructions lose their validity.

**Drawing-no.:** RF-Sta-L-150 Typ 01 Einbau Klasse B 125 in Asphalt GB

**Drawing-no.:** C:\pdm\we\inventor\2007\02\0000013536.idw

---

**Note:**

- In Class D, do not use across the carriageway. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC.
Installation example
Concrete cl. A 15 - C 250

Category according to EN 1433 / DIN V 19580
A 15  B 125  C 250  D 400  E 600  F 900
Applying to following channel systems:
RECYFIX STANDARD 100, 150, 200, 300
RECYFIX PLUS 100, 150, 200, 300

Foundation: width b / thickness d / height h (in cm)
10 / 10 / *
10 / 10 / *
10 / 15 / *
EN 206-1 / DIN 1045-2
Concrete quality of stretcher
Concrete quality of foundation
C 30/37 XF4  C 30/37 XF4  C 30/37 XF4
C 25/30 XF1  C 25/30 XF1  C 25/30 XF1
The named concrete quality is a minimum quality
** In Class D 400 not for use across the carriageway
of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC

Condition: 22.02.2007
Our general installation instructions apply.
Surface: Concrete

Our general installation instructions apply.
Surface: Concrete

Shear reinforcement bar Ø 10mm
every 40 cm (optional)

3 - 5 mm

Concrete wearing layer
Base course
Concrete durability base

Frost resistant sub-base

* h = Channel height plus overhang

3 - 5 mm

Shear reinforcement bar Ø 10mm
every 40 cm (optional)

Concrete wearing layer
Base course
Concrete durability base

Frost resistant sub-base

* h = Channel height plus overhang

3 - 5 mm

Shear reinforcement bar Ø 10mm
every 40 cm (optional)

Concrete wearing layer
Base course
Concrete durability base

Frost resistant sub-base

* h = Channel height plus overhang
### Description:

Applying to following channel systems:

- RECYFIX STANDARD 100, 150, 200, 300
- RECYFIX PLUS 100, 150, 200, 300

Category according to EN 1433 / DIN V 19580

<table>
<thead>
<tr>
<th>Category</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
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<td>RECYFIX STANDARD 100, 150, 200, 300</td>
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<td>RECYFIX PLUS 100, 150, 200, 300</td>
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<tr>
<td>without danger of frost on the lateral support</td>
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<td></td>
</tr>
</tbody>
</table>

The installation examples / advice constantly are adapted to the technical conditions.

Our general installation instructions apply.

Before planning or installation please verify the current version at www.hauraton.com

<table>
<thead>
<tr>
<th>Condition:</th>
<th>22.02.2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Our general installation instructions apply.</td>
<td>Surface: Pavement</td>
</tr>
</tbody>
</table>

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC QUASIBLOC.

---

* h = Channel height plus overhang

---

### Installation Example

**Pavement cl. C 250**

- **Pavement**
- **Pavement bedding**
- **Base course**
- **Frost resistant sub-base**

The row of paver along the channel run placed in concrete bedding

**3 - 5 mm**

* h = Channel height plus overhang
SLOTTED CHANNELS – INSTALLATION INSTRUCTIONS

Our installation instructions / examples are suggestions that are generally accepted in the trade. Any special installation details required due to local conditions need to be specified by a qualified engineer. Technical regulatory instruments and guidelines applicable in the respective state or country should be taken into account for installation.

INSTALLING THE CHANNEL BASE SEGMENTS:
Dig a trench of sufficient size for installing the base segments of the channels. Set the outlet for connecting to the ground drainage pipe. Fill the trench with concrete up to level d (see installation examples). Spread the concrete evenly. Attach a line.

INSTALLING A RECYFIX STANDARD CHANNEL:
a) Connecting to a channel: Cut open the pre-formed outlet spigot at the channel. When connecting on the side, make sure the surface finish level will be as required in relation to the channel. When using channels with slotted cover, the installation of a foul air trap only makes sense at the inlet box or channels with removable covers.
b) Connecting to an inlet box: Cut open the appropriate outlet opening at the inlet box and connect the inlet box with the ground drainage pipe.
c) Connecting to an end cap with outlet: First set the channel with end cap and connect it to the ground drainage pipe.

INSTALLING A FASERFIX STANDARD CHANNEL:
a) Connecting to a channel: First lay the FASERFIX STANDARD channel with factory-preformed outlet spigot. When connecting on the side, make sure the surface finish level will be as required in relation to the channel. When using channels with slotted cover, the installation of a foul air trap only makes sense at the inlet box or channels with removable covers.
b) Connecting to an inlet box: Cut open the appropriate outlet opening at the inlet box and connect the inlet box with the ground drainage pipe.

Lay the RECYFIX STANDARD or FASERFIX STANDARD channels along the line. Important! Take note of the direction of flow! Insert a closed end cap at the beginning or – if both sides are open – at the beginning and end of the channel run.

Put the slotted covers into place to give the channels rigidity. Bank up a concrete haunching on both sides of the channel to give support to it. Lay the structural sub-base for the surface finish on the sides of the slotted covers and then lay the surface finish (e.g. paving etc.) onto the sub-base in accordance with the installation examples.

Please ensure that the adjoining surface finishes are laid to finish permanently 3 to 5 mm higher than the top edge of the slotted cover.

Where the installed product is subject to horizontal forces, e.g. in concreted areas and reinforced concrete structures, effective expansion joints have to be provided in both directions in accordance with DIN 18318.

Before adjacent areas are compacted or covered with concrete, asphalt or paving, the channels have to be sufficiently rigid. Where the products are installed in paved surfaces, the joint along the channels should be filled with cement-latex mortar or a bitumen compound. These installation instructions apply similarly to inlet boxes.

Note: The information provided here represents our best knowledge and experience to date. We reserve the right to make changes as technology advances and for the purpose of continuing product development. Users of the products are responsible for checking the functions and application options of these products by consulting with qualified engineers. The mentioning of trade names does not constitute a recommendation and does not preclude the use of other products that have been tested in the same way. For further information please refer to the respective safety data sheets or application areas, e.g. for elastic sealing compounds. Any new edition of this publication renders older editions invalid. Date: 01/07
SLOTTED CHANNELS

Description:
Applying to following channel systems:
Category according to EN 1433 / DIN V 19580
Foundation: with b / thickness d / height h (in cm)
The named concrete quality is a minimum quality
EN 206-1 / DIN 1045-2
without danger of frost on the lateral support
with danger of frost on the lateral support

Surface:
Condition: Our general installation instructions apply.
Installation examples / advice constantly adapted to the technical conditions.
With new editions older expenditures lose their validity.
Before planning or installation please verify the current version at www.hauraton.com

Drawing-no.:
RF-Sta-100 Typ 010 mit SYM-Schlitzab_HH100_Einbau Klasse A 15 in Plattenbelag_GB

Flagstone
Bedding
Base course
Frost resistant sub-base

Paving/Pavement

A 15 B 125 C 250 D 400* E 600 F 900

RECYFIX SLOTTED CHANNEL 100
FASERFIX SLOTTED CHANNEL 100

12.03.2007

* h ≥ Channel height - 10 cm

Our general installation instructions apply.

Paving/Pavement

cl. A 15

min. 3 mm
Description:
Applying to following channel systems:

- RECYFIX SLOTTED CHANNEL 100
- FASERFIX SLOTTED CHANNEL 100

Condition: 22.02.2007

Our general installation instructions apply.

Surface: Pavement

Category according to EN 1433 / DIN V 19580

<table>
<thead>
<tr>
<th>Category</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
</table>

Foundation: with b / thickness d / height h (in cm) 10 / 10 / *

The named concrete quality is a minimum quality

EN 206-1 / DIN 1045-2

- without danger of frost on the lateral support
  - C 20/25
- with danger of frost on the lateral support
  - C 25/30 XF1

The installation examples / advisories constantly are adapted to the technical conditions. The manufacturer’s data applies only for the installed conditions.

Before planning or installation please verify the current version at www.hauraton.com

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC SUPERBLOC.

Note: * h ≥ Channel height
**Description:**

Applying to following channel systems: Category according to EN 1433 / DIN V 19580

Foundation: with b / thickness d / height h (in cm)

- The named concrete quality is a minimum quality EN 206-1 /
- DIN 1045-2
- without danger of frost on the lateral support
- with danger of frost on the lateral support

Surface: Condition: Our general installation instructions apply.

Installation example

Pavement cl. A 15 - D 400**

** h ≥ Channel height

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOCK or FASERFIX TRAFFIC GUGIBLOC

** h ≥ Channel height

<table>
<thead>
<tr>
<th>Foundation</th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>without danger of frost on the lateral support</td>
<td>10 /10/*</td>
<td>10 /10/*</td>
<td>15 /15/*</td>
<td>15 /15/*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>with danger of frost on the lateral support</td>
<td>C 20/25</td>
<td>C 20/25</td>
<td>C 20/25</td>
<td>C 20/25</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

** h ≥ Channel height

Condition: 26.02.2007

Paverslot covers

RECYFIX STANDARD 150 CHANNELS

RECYFIX STANDARD 150 CHANNELS

Before planning or installation please verify the current version at www.hauraton.com

Drawing-no.: C:\pdm\we\inventor\2005\09\0\0000009362.idw

Hauraton

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76437 Rastatt
Germany
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Fax +49 (0) 72 22 9 58-100
info@hauraton.com
Our installation instructions / examples are suggestions that are generally accepted in the trade. Any special installation details required due to local conditions need to be specified by a qualified engineer. Technical regulatory instruments and guidelines applicable in the respective state or country should be taken into account for installation.

1. Please ensure that the adjoining surface finishes are laid to finish permanently 3 to 5 mm higher than the top edge of the channel.
2. Where the installed product is subject to horizontal forces, e.g. in concreted areas and reinforced concrete structures, effective expansion joints have to be provided in both directions in accordance with DIN 18318.
3. Before adjacent areas are compacted or covered with concrete, asphalt or paving, the channels have to be sufficiently rigid.
4. Where the products are installed in paved surfaces, the joint along the channels should be filled with paving gravel or bitumen compound.

These installation instructions apply similarly to inlet boxes.

Note: The information provided here represents our best knowledge and experience to date. We reserve the right to make changes as technology advances and for the purpose of continuing product development. Users of the products are responsible for checking the functions and application options of these products by consulting with qualified engineers. The mentioning of trade names does not constitute a recommendation and does not preclude the use of other products that have been tested in the same way. For further information please refer to the respective safety data sheets or application areas, e.g. for elastic sealing compounds. Any new edition of this publication renders older editions invalid. Date: 01/07
**Description:** Applying to following channel systems:

Category according to EN 1433 / DIN V 19580

- **Foundation:** with b / thickness d / height h (in cm)
  - A 15: 10 / 10 / *
  - B 125: 10 / 15 / *
  - C 250: 10 / 15 / *

**The named concrete quality is a minimum quality**

- **EN 206-1 / DIN 1045-2**
  - Without danger of frost on the lateral support:
    - C 20/25
    - C 20/25
  - With danger of frost on the lateral support:
    - C 25/30 XF1
    - C 25/30 XF1

**Without danger of frost on the lateral support with danger of frost on the lateral support.**

**Surface:**

- **Our general installation instructions apply.**

**Condition:** 26.02.2007

**Application:** Our general installation instructions apply.

**Asphalt**

**FASERFIX STANDARD E 100**

**FASERFIX STANDARD 150**

---

**Installation example**

Asphalt cl. A 15 - C 250

- **Wearing course**
- **Binder course**
- **Base course**
- **Frost resistant sub-base**

**Bituminous joint strip**

**3 - 5 mm**

**h > Channel height - 10 cm**
Description:
Applying to following channel systems:

- Category according to EN 1433 / DIN V 19580

<table>
<thead>
<tr>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 / 10 / *</td>
<td>10 / 10 / *</td>
<td>10 / 15 / *</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Foundation: with b / thickness d / height h (in cm)
  - The named concrete quality is a minimum quality
  - EN 206-1 / DIN 1045-2
  - Without danger of frost on the lateral support
  - With danger of frost on the lateral support

<table>
<thead>
<tr>
<th>EN 206-1</th>
<th>DIN 1045-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>C 20 / 25</td>
<td>C 20 / 25</td>
</tr>
<tr>
<td>C 25 / 30</td>
<td>C 25 / 30</td>
</tr>
</tbody>
</table>

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC SUPERBLOC.

** h > Channel height - 10 cm

Condition: 26.02.2007

Our general installation instructions apply.

Surface: Pavement

Installation example
Pavement cl. A 15 - C 250

Pavement bedding
Base course
Frost resistant sub-base

3 - 5 mm
Installation example
Concrete cl. A 15 - C 250

Category according to EN 1433 / DIN V 19580
Foundation: width b / thickness d / height h (in cm)

<table>
<thead>
<tr>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 / 10 / *</td>
<td>10 / 10 / *</td>
<td>15 / 15 / *</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The named concrete quality is a minimum quality
EN 206-1 / DIN 1045-2
Concrete quality of stretcher
Concrete quality of foundation

| C 30/37 XF4 | C 30/37 XF4 | C 30/37 XF4 |
| C 25/30 XF1 | C 25/30 XF1 | C 25/30 XF1 |

The installation examples / advice constantly are adapted to the technical conditions.
Before planning or installation please verify the current version at www.hauraton.com

Surface: Concrete
Condition: 26.02.2007

* h = Channel height plus overhang

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGELOC

** In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGELOC

 Expansion joint
Concrete wearing layer
Base course
Frost resistant sub-base

Shear reinforcement bar Ø 10mm every 40 cm (optional)

Description: FF-Sta-E-100 Typ 010 Einbau Klasse C 250 in Beton GB
Drawing-no.: C:pdm\inventor\20070501\0000014856.idw
Description: DF-Sta-Typ 0 Dachfixrinne Einbau in Plattenbelag GB
Drawing-no.: C:\pdm\we\inventor\2007\05\01\000014844.idw

**In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC.**

Category according to EN 1433 / DIN V 19580

<table>
<thead>
<tr>
<th></th>
<th>A 15</th>
<th>B 125</th>
<th>C 250</th>
<th>D 400**</th>
<th>E 600</th>
<th>F 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width b</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thickness d</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height h (in cm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Foundation: width b / thickness d / height h (in cm)

The named concrete quality is a minimum quality

EN 206-1 / DIN 1045-2

**In Class D 400 not for use across the carriageway of highways or motorways in moving traffic. For this application we recommend our channel systems FASERFIX TRAFFIC SUPERBLOC or FASERFIX TRAFFIC GUGIBLOC.**

Our general installation instructions apply.

Surface: Paving

Condition: 02.03.2007

Before planning or installation please verify the current version at www.hauraton.com

DACHFIX CHANNEL

Installation example
Paving
walkable and able for wheel chair

Crushed stone bedding
Durable, ventilated protective layer
Membrane construction according flat roof guideline

Our general installation instructions apply.
RECYFIX® GREEN SUPER – INSTALLATION INSTRUCTIONS

The installation instructions contain suggestions that are generally familiar. It is up to the specifiers involved to stipulate any special installation methods appropriate to local soil and load bearing conditions. The codes and regulations generally familiar to the trade, such as DWA-A 138, DIN 18318 and DIN 18315 ZTVT-STB, should be taken into account during installation. RECYFIX GREEN SUPER are optimally suitable for incidental using of parking areas with low utilisation for car traffic, trucks or busses, e.g. in commercial areas. In emergency situations sufficient safety is provided in accordance with DIN 14090 (regarding access for fire engineers). Slopes of more than 5% may not be formed in traffic-bearing surfaces. Larger slopes may be formed if the location of installation is an embankment.

1. Preparation of the substructure should be carried out subject to the above regulations. Care should be taken to ensure sufficient permeability is achieved without compromising stability.

2. Compression of the loose base course together with its later load bearing, e.g. buses or coaches on frost-free subsoil, should be approx. 50 cm. The materials should be made up in accordance with ZTVT-STB.

3. Before the honeycombs are laid a bedding layer should be prepared depending on the depth to which the honeycombs will later be filled. After compression it should be about 4 cm thick. If the honeycombs are to be filled with a mineral-based mixture, i.e. with special grit crushed stone fines 0/5 or similar may be used. Any further washing out of material into the lower layers should be prevented by ensuring the filter stability of the layers. If the honeycombs are to be filled with turf, an appropriate layered lava mixture should be used for the bedding.

4. RECYFIX GREEN SUPER have been designed to be laid with an expansion joint in order to compensate for any expansion in the honeycombs. The linking system enables the joints to be locked in place from above by applying pressure with the foot. Curves or gaps can be created using standard cutting tools.

5. The anchor pin system at the base of the comb guarantees a good fit on the bedding. The entire area should be framed with an edging or fixed with anchoring pegs so that it is level. Depending on the way the ground is prepared, these anchors can be hammered in through special guide ways in the honeycomb.

6. When being filled with mineral-based filler, e.g. gravel or special grit (2/5), the honeycombs should be filled in before and after riddling permanently up to the upper edge, which can be done using standard plate vibrators. The tyre profile must not get caught with the webs of the comb.

7. Where grass is being used, the honeycombs should be filled with growth substratum in two phases before and after riddling, using standard plate vibrators, in accordance with DIN 18917 and DIN 18035 part 4. The surface should be watered be fore riddling takes place so that the substratum can settle. After seeding in a depth of approx. 7 mm, the refilled substratum should be level with the top of the honeycombs. During germination the surface should be watered regularly until after the first cut and it should remain unused by vehicle traffic. The tyre profile must not get caught with the webs of the comb.

8. We recommend that the grass surface remain unused and be tended regularly – e.g. watered, mowed, filled up and if necessary fertilized – until after the 4th cut. This will ensure the area maintains the lasting appearance of a grassed surface.
Note: The information provided here represents our best knowledge and experience to date. We reserve the right to make changes as technology advances and for the purpose of continuing product development. Users of the products are responsible for checking the functions and application options of these products by consulting with qualified engineers. The mentioning of trade names does not constitute a recommendation and does not preclude the use of other products that have been tested in the same way. For further information please refer to the respective safety data sheets or application areas, e.g. for elastic sealing compounds. Any new edition of this publication renders older editions invalid. Date: 01/07

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Our installation instructions are generally accepted suggestions. Special methods of installation which may be necessary due to ground or soil conditions should be followed according to the criteria: As much compression as necessary, as much permeability as possible. Various regulations and technical guidelines well-known among experts, such as DWA-A 138 RSTO 01, DIN 18035, DIN 18917, have to considered during installation. RECYFIX GREEN STANDARD are optimally suitable for incidental using of parking areas with low utilisation for car traffic, e.g. in private areas with simultaneous planting vegetation. For regular access roads or filling with chips the RECYFIX GREEN STANDARD are unqualified. In case of emergencies sufficient security according to DIN 14090 „Areas for fire engines on plots of land“ is available. Slopes of over 5% are not advised.

1. When preparing the bedding, special attention should be given to achieve sufficient water permeability, however stability always has priority.
2. The compression and thickness of the supporting bedding is governed by the proposed loading (automobiles, pedestrians, etc.), e.g. 30 cm for car loading.
3. Prior to laying the RECYFIX GREEN STANDARD, a layer of sand with chippings or similar graded mixture should be spread over the supporting bedding. After compaction it has a thickness of at least 3 cm. If required add long-time fertilizer.
4. RECYFIX GREEN STANDARD elements are simply joined up, as shown in the illustration. Each element is structurally connected to the next one, automatically forming a larger expansion joint. It is easy to form round shapes as well as indentations using usual commercially available cutting tools. The RECYFIX GREEN Edge marker inserts can be fitted into the honeycombs as visual boundaries.
5. The linked hexagonal system with anchor pins on the underside ensures well spread anchoring in the bedding layer. The complete area should be bordered with suitable edging or fixed with RECYFIX Anchoring pegs.
6. The filling of the RECYFIX GREEN STANDARD either with Substratum and the seeding should be done in two operations: before and after the riddling. The area should be watered before the riddling so that the substratum can settle well. After the seeding in a depth of approx. 7 mm the filled up substratum should be level with the top of the RECYFIX GREEN STANDARD.
7. During germination the grass seed has to be watered regularly. Do not drive over the newly sown grass during germination.
8. We recommend that the freshly sown turf is left to rest up to the fourth mowing and is regularly maintained horticultural with e.g. mowing, filling up, watering and fertilising if necessary. These measures will maintain the appearance of a turf for the long term, if they will be repeated regularly if necessary.
Note: The information provided here represents our best knowledge and experience to date. We reserve the right to make changes as technology advances and for the purpose of continuing product development. Users of the products are responsible for checking the functions and application options of these products by consulting with qualified engineers. The mentioning of trade names does not constitute a recommendation and does not preclude the use of other products that have been tested in the same way. For further information please refer to the respective safety data sheets or application areas, e.g. for elastic sealing compounds. Any new edition of this publication renders older editions invalid. Date: 01/07
Our installation instructions / examples are suggestions that are generally accepted in the trade. Any special installation details required due to local conditions need to be specified by a qualified engineer. The system designer and contractors need to take into account statutory and project-related regulations. DRAINFIX BLOCS are suitable as fill material in infiltration systems for stormwater and ground conditions not subject to hazardous pollution, in accordance with worksheet DWA-A 138. HAURATON will supply free-of-charge calculations for determining the dimensions and number of layers of the DRAINFIX BLOC elements to be installed in the infiltration system, based on the above worksheet. If the area above the infiltration system with the DRAINFIX BLOC elements is designed for traffic loads, the construction classes of RStO 01 with respect to deformation module EV2 as well as local ground conditions have to be taken into account. The permeability of compacted ground layers must be at least equivalent to the values for infiltration entered into the calculations. The depth and thickness of layers has to be calculated for load-bearing capacity in order to meet the respective load classes of passenger cars, HGV and SLW loads. In these calculations the depth of invert levels is determined by the existing inherent angle of incline of the surrounding soils as well as the imposed traffic load.

**INSTALLATION PROCEDURE**

1. **Building pit with granular sub-base**

Excavate a building pit of sufficient size for the DRAINFIX BLOC modules and working space, secure against caving in and level off the base. The standards relating to earthworks and the construction of building pits, as well as frost-free depth have to be observed. Lay a granular sub-base 0/8 of approx. 5 cm thickness as base for the DRAINFIX BLOC modules; in case of imposed traffic loads this should be compacted. The permeability of the granular sub-base should be adjusted to the $k_r$-value for permeability of the surrounding soil. Where the finished infiltration body is to be used for road traffic, the covering layers have to withstand deformation according to the formula $E_v \geq 45$ MN/m² and may need levelling layers in accordance with RStO 01. Where DRAINFIX BLOC elements are to be installed near buildings, the necessary distances need to be observed as specified in DWA-A 138. The minimum distance to the average highest groundwater level is 1 m. The distance of trees to the infiltration structure must be at least half the diameter of the tree’s crown when fully mature.
2 Lining the building pit with geotextile
Use the geotextile to line the building pit, making sure that the DRAINFIX BLOC are wrapped up with an overlap of approx. 50 cm at the joints. The required size of the GRK3 fleece will be specified as part of the calculations for the structure.

3 Installing the DRAINFIX BLOC modules, wrapping up with fleece
The individual blocks are interconnected with the help of the connector hooks so that they form a thrust-resisting homogenous body. The hooks of the module should point to the edge of the pit and determine the direction of installation (see figures A to D). These visible hooks on the outside of the structure should be cut off in order to prevent them from damaging the fleece when the structure is wrapped up later.

A Link up the smaller side of the DRAINFIX BLOC to the smaller side of the block already installed using the connector hook.

B This will form an open joint along the longer side.

C Engage the connector hooks by lifting the block slightly and moving the longer side against the side of the block already laid.

D Lower the DRAINFIX BLOC again and both sides of the block will be securely linked with resistance against thrust.
If several layers of blocks are laid on top of each other, either offset in bond or straight, additional connection adapters have to be inserted into the square openings at the top of the DRAINFIX BLOC modules to provide thrust resistance. For straight installation 1 adapter is required per layer and element whereas for offset installation (layers offset against each other by 90°) 4 adapters are required per layer and grid of 2.40 m x 2.40 m. For structural reasons, DRAINFIX BLOC modules must not be reduced in size. Once all blocks have been laid, wrap up the structure covering the surface fully with geotextile. Joints should overlap by approx. 50 cm and should be secured against moving out of place by placing fill material on them.

4 Installing inlet and inspection chambers, camera inspection

After installing the inlet and outlet chambers, make an opening in the geotextile and connect the connecting pipes to the DRAINFIX BLOC modules. To do that, cut out the wall blank at the pre-formed place in the DRAINFIX BLOC. Each block element features several pre-formed blanks in DN 100 and DN 150 mm so that there are many options for connecting pipes from the inspection chambers. An opening above the fine filter and one to the DRAINFIX BLOC modules for the pipe connections to inlet/inspection chambers can be provided at the factory in accordance with specifications. Likewise it is possible for the factory to provide options for camera inspections in positions indicated on the installation plan. At the pipe connection, the edges of the fleece have to be bonded with adhesive to keep out sand. Where the blocks are laid over a wider area, several pipe inlets have to be provided to allow for even water distribution.

According to DWA-A 138, one inlet chamber can be connected to an area of approx. 500 m². The structure can be vented via the inlet/inspection chamber. If no vent pipes are connected to the chambers, a vent pipe must be fitted at the top of the DRAINFIX BLOC structure to achieve the same effect. In this configuration, a pipe can also have the function of an emergency overflow (e.g. from a swale above the infiltration structure).

5 Backfilling the work space, covering the structure, traffic loads

Backfill the periphery of the building pit with filter-effective non-cohesive fill material, in layers, and compact with suitable equipment. Layers to be compacted should be limited to 20 cm; vibrator plates are suitable for compacting. Compacting rollers should not be used for compacting.

Where the soil conditions are suitable, 4 layers of DRAINFIX BLOC modules are possible in pits with a max. depth of 5 m and covering layers of max. 3.50 m, e.g. for passenger car loading. However, construction details required and/or specified by the system designer have to be included, such as choice of suitable fill material or devices for reducing ground pressure.

In order to remain functional for the purpose of infiltration, the fleece must not be damaged during backfilling or compacting the building pit. Where infiltration structures are situated under areas exposed to traffic, the depth of covering layers and the deformation modules are determined by the requirements of RStO 01.
The minimum thickness of covering layers and the maximum depth of installation are calculated for the project with a computer-aided program, taking account of the anticipated traffic loads. It is not permitted to drive directly on the modules. The covering layers over the DRAINFIX BLOC modules are to be deposited using the front-dumping method. From a layer thickness of 50 cm it is possible to drive on the structure with HGV with a gross vehicle weight rating of 12 tonnes or equivalent construction machines.

From a layer thickness of 60 cm and after compacting suitable levelling layers to $E_{uv} > 45$ MN/m$^2$ the remaining top layers can be laid in accordance with RStO 01. Any deviations from the above require confirmation by the system designer or soil expert and may require additional measures.

**Inspection and maintenance of the infiltration structure**

The infiltration structure should be inspected for its water level at least every six months. As an additional safeguard it is possible to carry out camera inspections. The filter function of the filter pipe at the inlet chamber should be checked as required, but particularly after heavy rainfall. It is important to ensure that no dirt or loose soil enters the infiltration structure during the installation or thereafter as this could curtail the long-term function of the infiltration structure. If the inlet chamber is used as a sedimentation chamber, the chamber should be cleaned out at least every six months, depending on the volume of sedimentation.

When the covering layer has reached a thickness of 50 cm it can support HGV of 12 t gross vehicle weight rating.

![Diagram of infiltration structure](image)

**Version 1: venting via chamber**

**Version 2: venting via vent pipe**
The installation examples / advise constantly are adapted to the technical conditions. With new editions older expenditures lose their validity. Before planning or installation please verify the current version at www.hauraton.com

Applying to:
DRAINFIX BLOC

Condition: 27.11.2007
Our general installation instruction apply
Surface:
trafficked area

Description: DRF-Bloc Einbau in Verkehrsfläche, GB
EDV-Name: C:\PDM\m\Inventor\2007\11\0000016983.idw

Drainfix®
BLOC

Installation example
DRAINFIX BLOC
multilayer installation
for trafficked areas

trafficked area construction
according RTStO 01

Compacted foundation according ZTVM - StB/
leveling course with ϕt
infiltrationable

Geotextile

Granular sub-grade
course 5cm

Underground
infiltrationable
## Installation depth depending on type of soil and traffic load using DRAINFIX BLOC layers 33 cm high

<table>
<thead>
<tr>
<th>Traffic load</th>
<th>Passenger cars (2.5To)</th>
<th>HGV (12.5To)</th>
<th>SLW60 (60To)</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>inner angle of incline of the compacted levelling layers + additional measures for reducing ground pressure</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>number of layers (no.)</td>
<td>invert depth</td>
<td>invert depth</td>
</tr>
<tr>
<td></td>
<td></td>
<td>T max. in (m)</td>
<td>T min. in (m)</td>
</tr>
<tr>
<td>25</td>
<td>5</td>
<td>1.90</td>
<td>0.60</td>
</tr>
<tr>
<td>30</td>
<td>6</td>
<td>2.25</td>
<td>0.60</td>
</tr>
<tr>
<td>35</td>
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<tr>
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<td>3.75</td>
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</tr>
<tr>
<td>45*</td>
<td>13</td>
<td>4.50</td>
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</tr>
<tr>
<td>50*</td>
<td>14</td>
<td>5.00</td>
<td>0.60</td>
</tr>
<tr>
<td>covering layer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Ü min. in (m)</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>covering layer **</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Ü max. in (m)</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>width of work space</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*inner angle of incline of substrate = sub-base φ\( \text{in} \) (degrees)

**where the thickness of covering layers is increased to Ü max, modifications in number of layers and settlement characteristics have to be considered by the soil engineer**
Installation example
DRAINFIX TWIN 0/1
Load = non-trafficked

**Description:**
- **Applying to:** DRAINFIX TWIN 0/1

- **Condition:** 27.02.2007
- **Our general installation instruction apply:**
- **Surface:** Natural Ground

- **Backfill:** Dug out soil
- **Natural ground**
- **Twin 0** (without drainage perforation)
- **Geotextile** (Prevents fine particles getting washed into gravel)
- **Gravel size 8/16 up to 16/32 (washed)**
- **Twin 1** (with drainage perforation)
- **approx. 5 cm**
- **Sand (washed)**

The installation examples / advise constantly are adapted to the technical conditions. With new editions older expenditures lose their validity. Before planning or installation please verify the current version at www.hauraton.com

C:\pdm\pim\inventor\2007\05\00001435.idw

Drawing-no.: DRF_TWIN_Einbau_1xTWIN-0-1_begehbar_GB

Before planning or installation please verify the current version at www.hauraton.com.
Installation example
DRAINFIX TWIN
allowed loading = walkable

The installation examples / advise constantly are adapted to the technical conditions.
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Applying to:
DRAINFIX TWIN 1 + TWIN 0/1
DRAINFIX TWIN 1 + TWIN 1/1
DRAINFIX TWIN 1 + TWIN 1/0

Condition: 27.11.2007
Our general installation instruction apply
Surface: green space

Description: DRF_TWIN_Einbau_(Wave)_unter_Grünfläche_GB
EDV-Name: C:\PDM\WE\Inventor\2007\11\0\0000016984.dwg
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Condition: 27.02.2007

Pavement
Pavement bedding
Base course
Natural ground

Gravel size 8/16 up to 16/32 (washed)
approx. 5 cm
Sand (washed)

Gravel backfill optional wrapped with geotextile

approx. 90 cm
approx. 1/75 cm

Installation example DRAINFIX TWIN, Car trafficked

Applying to:
DRAINFIX TWIN 1/1
DRAINFIX TWIN 0/1
DRAINFIX TWIN 1/0

Surface: Pavement

Our general installation instruction apply

Description: DRF_TWIN Einbau 3xTWIN-1-1 unter Pflasterbelag GB
Drawing-no.: C:\pdm\we\inventor\2007\05\00000014837.idw
Installation advise
DRAINFIX TWIN
Max. Load = SLW 30

Description:
Applying to:
Surface: Asphalt
Condition: 27.02.2007
Our general installation instruction apply

Suitable soil conditions secured by Design Engineer
Angular stone 8/16 up to 16/32 (washed)
approx. 5 cm sand (washed)
optional Geotextil on sand layer

Drawing-no.: C:\pdmwe\inventor\200703\000001385.idw
Applying to:
DRAINFIX TWIN1
DRAINFIX TWIN0

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www.hauraton.com; see Service / Download
HAURATON PRODUCT SCOUT

AT A GLANCE: FIND THE RIGHT SYSTEM
FOR YOUR APPLICATION REQUIREMENTS.

<table>
<thead>
<tr>
<th>REQUIREMENTS FOR APPLICATION</th>
<th>PRODUCTNAME</th>
<th>NOMINAL WIDTH / LOAD</th>
<th>CATALOGUE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PEDESTRIAN / WHEELCHAIR TRAFFIC</strong></td>
<td>FASERFIX POINT STANDARD</td>
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<td>LANDSCAPING</td>
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<td></td>
<td>DRAINFIX TWIN</td>
<td>depending on installation SLW 30</td>
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<td><strong>HGV TRAFFIC</strong></td>
<td>DRAINFIX BLOC</td>
<td>depending on installation SLW 60</td>
<td>AQUA</td>
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<td><strong>CLASS A 15, TEST FORCE 15 KN</strong></td>
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<tr>
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</table>

Please also note our numerous non-standard solutions for individual requirements in the different catalogues.
# HAURATON INDEX

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>C</th>
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<td></td>
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<td>BUS STATIONS, BUS STOPS</td>
<td></td>
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<td>F FAÇADE DRAINAGE</td>
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<td>FILLING STATIONS</td>
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<tr>
<td>FILLING STATIONS, DECANTING STATIONS</td>
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<td>FOOD INDUSTRY FACILITIES</td>
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<td>H HAULAGE COMPANIES, LOADING AREAS</td>
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<td>INDUSTRIAL YARDS</td>
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<tr>
<td>MOTORWAY, DRAINAGE ALONG</td>
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<td>MULTI-STOREY CAR PARKS</td>
<td></td>
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</tr>
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<td>N NON-STANDARD SOLUTIONS</td>
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<td>PLAYING FIELD BORDERS</td>
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<td>PUBLIC AREAS AND SQUARES</td>
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<td>RAILWAY CROSSINGS</td>
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<td>UNDERGROUND CAR PARKS, MULTI-STOREY CAR PARKS</td>
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