Because there’s space for efficiency and sustainability everywhere. Parking drainage solutions
Versatility
An application for every space.

- Parkline trench drain
- Mini shallow trench drain
- BG Sigma trench drain
- Standard pro trench drain
Impact strength and environment-friendliness are just two of the many features which makes FILCOTEN® unique.

The material combines the positive features of concrete channels with the benefits of resin bonded cements by using a patented fiber enriched formula instead of the environmentally harmful resins. FILCOTEN® is still unrivaled in the market place, being admired for its sustainability and its unique channel strength. FILCOTEN® complies with the EN 1433 standard and the ASTM A112.6.3.2001 floor and trench drain standard.

FILCOTEN® channels are made from cement-bonded fiber composites, which react to changes in temperature in the same way as the surrounding concrete bedding. This achieves a continuous integral unit reacting and flexing with the environment delivering a long service life for the entire channel system. Resistant to frost down to -40°F (-40°C). Also resistant to de-icing salts.

Every ounce of a FILCOTEN® channel is completely recyclable. FILCOTEN® has been tested by the soil and building materials testing facility in Linz, Austria.

FILCOTEN® is free from artificial resins and solvents. This means that it is harmless to the environment, our employees and the installation team. FILCOTEN® channel bodies have been biocstructively tested and are recommended by the IBR (Institut für Baubiologie Rosenheim GmbH).

While plastics are both flammable and often emit hazardous fumes when ignited, the complete absence of resins, catalysts and bonding agents make FILCOTEN® completely non-flammable. FILCOTEN® has a Fire Rating of A1.

The flat inner surface of FILCOTEN® channels are well crafted to make the surface extremely smooth in order to minimize friction. This attention to detail achieves the best possible flow characteristics and a superior self-cleaning action. The textured outer surface ensures a perfect bond with the concrete bed.

Lower transport costs, swifter installation
Depending on the type of channel, FILCOTEN® channels are up to 70% lighter than conventional concrete channels. This is a huge savings in terms of fuel consumption. FILCOTEN® is committed to conserving resources and decreasing its -40°F (-40°C) proportional CO₂ emissions. The lower weight also facilitates on site installation.

High compressive strength
A high quality cement mixed with a great proportion of fibers enables thin-walled channel design while yielding a very high compression strength. FILCOTEN® channels are therefore lighter yet easily out perform most competitors.
A heavyweight when it comes to Engineered features:

With our FILCOTEN® mini channel, you don't have to compromise on quality or durability. It's stable yet lightweight, and can be adapted to site conditions. FILCOTEN® is available in galvanized or stainless steel rails up to class E 600 (acc. to EN 1433).

Ideal for threshold applications, the FILCOTEN® pro mini range is the most complete range of its class. We carry two different heights for 4, 6, 8 and 12" (100, 150, 200, or 300 mm) trench drains, starting at a height of 2.36" (60 mm).

Shallow trench drains reduce the need for thicker concrete slabs, lowering costs and allowing more flexibility in the design.

Channel geometry / surfacing
The flat inner surface of the FILCOTEN® channels are well crafted, making each channel smooth, in order to minimize surface friction. This achieves the best possible flow and a superior self-cleaning effect.

Prefabricated sealant groove
Sealant groove for waterproof installations.

Fast and secure fix snap-on-anchoring system
The intelligent fix connection connection is amazingly simple. It uses an integral secure four-point, quick-release and spring-loaded design to securely hold the grate in place.

Prefabricated sealant groove
Sealant groove for waterproof installations.

Galvanized steel rails
The special design of the galvanized steel rails allows for secure grating locking with the fix self-locking system. Adjacent covering surfaces can easily be attached to the edges of the rails.

Anchoring and fixing recesses
In addition to the optimal concrete adhesion property of FILCOTEN®, the recesses grant a secure fit in the surrounding concrete base.

Perfect fit
Intelligently distributed fixing points, both on the inner and outer sides of the rails, guarantees ideal bonding with the FILCOTEN® material.

Comprehensive product range:
- Front/end cap
- No hub bottom outlets
- Rebar support
- Option for protection against vandalism
- Grating variations

Made in
### Channels and Gratings

#### Channel body **FILCOTEN®** pro – E/V 100 (4") mini shallow body – heavy duty series

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Body part number</th>
<th>Channel type</th>
<th>Slope A (%)</th>
<th>Overall body depth b (Max.)</th>
<th>Maximum flow rate</th>
<th>Weight (less grate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10501020</td>
<td>10501020</td>
<td>mini 40</td>
<td>0 %</td>
<td>2.36&quot; (60 mm)</td>
<td>4.80</td>
<td>0.30</td>
</tr>
<tr>
<td>10501030</td>
<td>10501030</td>
<td>mini 80</td>
<td>0 %</td>
<td>3.15&quot; (80 mm)</td>
<td>12.7</td>
<td>0.80</td>
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#### Channel body **FILCOTEN®** pro – E/V 150 (6") mini shallow body – heavy duty series

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Body part number</th>
<th>Channel type</th>
<th>Slope A (%)</th>
<th>Overall body depth b (Max.)</th>
<th>Maximum flow rate</th>
<th>Weight (less grate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10502020</td>
<td>10502020</td>
<td>mini 100</td>
<td>0 %</td>
<td>3.96&quot; (100 mm)</td>
<td>34.87</td>
<td>2.20</td>
</tr>
<tr>
<td>10502030</td>
<td>10502030</td>
<td>mini 120</td>
<td>0 %</td>
<td>4.72&quot; (120 mm)</td>
<td>57.96</td>
<td>3.60</td>
</tr>
</tbody>
</table>

#### Channel body **FILCOTEN®** pro – E/V 200 (8") mini shallow body – heavy duty series

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Body part number</th>
<th>Channel type</th>
<th>Slope A (%)</th>
<th>Overall body depth b (Max.)</th>
<th>Maximum flow rate</th>
<th>Weight (less grate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10503020</td>
<td>10503020</td>
<td>mini 170</td>
<td>0 %</td>
<td>6.68&quot; (170 mm)</td>
<td>102.40</td>
<td>6.60</td>
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#### Channel body **FILCOTEN®** pro – V 300 (12") mini shallow body – extra heavy duty series

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Body part number</th>
<th>Channel type</th>
<th>Slope A (%)</th>
<th>Overall body depth b (Max.)</th>
<th>Maximum flow rate</th>
<th>Weight (less grate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10530200</td>
<td>10530200</td>
<td>mini 120</td>
<td>0 %</td>
<td>4.72&quot; (120 mm)</td>
<td>120.46</td>
<td>7.60</td>
</tr>
</tbody>
</table>

### Gratings **FILCOTEN®** pro 100 (4") with FIX self-locking system

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Gratings</th>
<th>Material</th>
<th>Dimensions in inches / mm</th>
<th>Total flow rate per EN-standard</th>
<th>Weight lbs</th>
<th>Inlet cross-section sq. inches</th>
<th>Inlet cross-section cm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>17010200</td>
<td>Reinforced slotted grating</td>
<td>galvanized steel</td>
<td>39.40&quot; x 0.31&quot; slots</td>
<td>0.31&quot; wide x 3.15&quot; slots (bolt on)</td>
<td>3.31 1.5</td>
<td>34.08 225</td>
<td></td>
</tr>
<tr>
<td>17010201</td>
<td>Reinforced slotted grating</td>
<td>galvanized steel</td>
<td>19.70&quot; x 0.31&quot; slots</td>
<td>0.31&quot; wide x 3.15&quot; slots (bolt on)</td>
<td>1.76 0.8</td>
<td>34.08 225</td>
<td></td>
</tr>
<tr>
<td>17010204</td>
<td>ADA HIELPFOOF Perforated grating</td>
<td>galvanized steel</td>
<td>39.40&quot; x 0.31&quot; slots</td>
<td>0.31&quot; wide x 3.15&quot; slots (bolt on)</td>
<td>4.19 1.9</td>
<td>20.77 134</td>
<td></td>
</tr>
<tr>
<td>17010205</td>
<td>ADA HIELPFOOF Perforated grating</td>
<td>galvanized steel</td>
<td>19.70&quot; x 0.31&quot; slots</td>
<td>0.31&quot; wide x 3.15&quot; slots (bolt on)</td>
<td>2.2 1.0</td>
<td>20.77 134</td>
<td></td>
</tr>
<tr>
<td>17010206</td>
<td>Reinforsed slotted grating</td>
<td>galvanized steel</td>
<td>39.40&quot; x 0.31&quot; slots</td>
<td>0.31&quot; wide x 3.15&quot; slots (bolt on)</td>
<td>9.92 4.5</td>
<td>42.63 275</td>
<td></td>
</tr>
<tr>
<td>17010207</td>
<td>Reinforsed slotted grating</td>
<td>galvanized steel</td>
<td>19.70&quot; x 0.31&quot; slots</td>
<td>0.31&quot; wide x 3.15&quot; slots (bolt on)</td>
<td>4.85 2.2</td>
<td>42.63 275</td>
<td></td>
</tr>
<tr>
<td>17010222</td>
<td>ADA Mesh grating</td>
<td>galvanized steel</td>
<td>39.40&quot; x 0.31&quot; slots</td>
<td>0.31&quot; wide x 3.15&quot; slots (bolt on)</td>
<td>7.28 3.3</td>
<td>141.05 910</td>
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<tr>
<td>17010223</td>
<td>ADA Mesh grating</td>
<td>galvanized steel</td>
<td>19.70&quot; x 0.31&quot; slots</td>
<td>0.31&quot; wide x 3.15&quot; slots (bolt on)</td>
<td>1.56 1.6</td>
<td>137.18 885</td>
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</tr>
<tr>
<td>17010228</td>
<td>ADA HIELPFOOF Perforated grating</td>
<td>galvanized steel</td>
<td>39.40&quot; x 0.31&quot; slots</td>
<td>0.31&quot; wide x 3.15&quot; slots (bolt on)</td>
<td>7.28 3.3</td>
<td>20.77 134</td>
<td></td>
</tr>
<tr>
<td>17010229</td>
<td>ADA HIELPFOOF Perforated grating</td>
<td>galvanized steel</td>
<td>19.70&quot; x 0.31&quot; slots</td>
<td>0.31&quot; wide x 3.15&quot; slots (bolt on)</td>
<td>3.75 1.7</td>
<td>20.77 134</td>
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<tr>
<td>17010402</td>
<td>ADA HIELPFOOF Perforated grating</td>
<td>galvanized steel</td>
<td>19.70&quot; x 0.31&quot; slots</td>
<td>0.31&quot; wide x 3.15&quot; slots (bolt on)</td>
<td>4.85 2.2</td>
<td>42.63 275</td>
<td></td>
</tr>
</tbody>
</table>

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Gratings **FILCOTEN®** pro 100 (4") with FIX self-locking system.

- **GRAFTEN®** pro – E/V 100 (4") mini shallow body – heavy duty series
- **GRAFTEN®** pro – E/V 150 (6") mini shallow body – heavy duty series
- **GRAFTEN®** pro – E/V 200 (8") mini shallow body – heavy duty series
- **GRAFTEN®** pro – V 300 (12") mini shallow body – extra heavy duty series

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Stainless steel gratings available on request.
Gratings: FILCOTEN® pro 150 (6”) with fiX self-locking system.

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Gratings</th>
<th>Material</th>
<th>Dimensions in inches / mm</th>
<th>Load class as per EN-standard</th>
<th>Slot / Mesh width</th>
<th>Weight LBS</th>
<th>Index cross-section sq. inches</th>
<th>Index cross-section cm²/m</th>
</tr>
</thead>
<tbody>
<tr>
<td>17015220</td>
<td>ADA Mesh grating</td>
<td>galvanized steel</td>
<td>39.40” x 6.77” x 0.78”</td>
<td>B 125 kN</td>
<td>MW 1.18” x 0.39”</td>
<td>10.14</td>
<td>4.6</td>
<td>206.15</td>
</tr>
<tr>
<td>17015221</td>
<td>ADA Mesh grating</td>
<td>galvanized steel</td>
<td>19.70” x 6.77” x 0.78”</td>
<td>B 125 kN</td>
<td>MW 1.18” x 0.39”</td>
<td>5.29</td>
<td>2.4</td>
<td>199.18</td>
</tr>
<tr>
<td>17015222</td>
<td>ADA Mesh grating</td>
<td>galvanized steel</td>
<td>19.70” x 6.77” x 0.78”</td>
<td>C 250 kN</td>
<td>MW 1.18” x 0.39”</td>
<td>15.21</td>
<td>6.9</td>
<td>196.40</td>
</tr>
<tr>
<td>17015223</td>
<td>ADA Mesh grating</td>
<td>galvanized steel</td>
<td>19.70” x 6.77” x 0.78”</td>
<td>C 250 kN</td>
<td>MW 1.18” x 0.39”</td>
<td>7.94</td>
<td>3.6</td>
<td>192.20</td>
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<tr>
<td>17015224</td>
<td>ADA Mesh grating</td>
<td>galvanized steel</td>
<td>19.70” x 6.77” x 0.78”</td>
<td>D 300 kN</td>
<td>MW 1.18” x 0.39”</td>
<td>22.93</td>
<td>10.4</td>
<td>167.40</td>
</tr>
<tr>
<td>17015225</td>
<td>ADA Mesh grating</td>
<td>galvanized steel</td>
<td>19.70” x 6.77” x 0.78”</td>
<td>D 300 kN</td>
<td>MW 1.18” x 0.39”</td>
<td>11.68</td>
<td>5.3</td>
<td>166.63</td>
</tr>
<tr>
<td>17015104</td>
<td>Ductile iron</td>
<td>ductile iron</td>
<td>19.70” x 6.77” x 0.78”</td>
<td>D 300 kN</td>
<td>Mesh 1.14” x 0.51”</td>
<td>11.46</td>
<td>5.2</td>
<td>110.05</td>
</tr>
<tr>
<td>17015105</td>
<td>Ductile iron</td>
<td>ductile iron</td>
<td>19.70” x 6.77” x 0.78”</td>
<td>E 400 kN</td>
<td>0.55” wide x 0.91” slots</td>
<td>15.43</td>
<td>7.0</td>
<td>110.05</td>
</tr>
<tr>
<td>17015189</td>
<td>HEELPROOF Ductile iron grating VILLE</td>
<td>ductile iron</td>
<td>19.70” x 6.77” x 0.78”</td>
<td>E 400 kN</td>
<td>0.31” wide slots</td>
<td>17.42</td>
<td>7.9</td>
<td>35.34</td>
</tr>
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</table>
### Gratings: FILCOTEN® pro 200 (8”) with fiX self-locking system.

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Gratings</th>
<th>Material</th>
<th>Dimensions in inches / mm</th>
<th>Load Class as per EN-standard</th>
<th>Slot / Mesh width</th>
<th>Weight LBS</th>
<th>Inlet cross-section sq. inches</th>
<th>Inlet cross-section cm²/m</th>
<th>LBS/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>17020220</td>
<td>ADA Mesh grating</td>
<td>galvanized steel</td>
<td>39.40”-8.74”-0.78”</td>
<td>B 125 kN</td>
<td>MW 1.18” x 0.39”</td>
<td>13.23</td>
<td>6.0</td>
<td>275.13</td>
<td>1.775</td>
</tr>
<tr>
<td>17020221</td>
<td>ADA Mesh grating</td>
<td>galvanized steel</td>
<td>19.70”-8.74”-0.78”</td>
<td>B 125 kN</td>
<td>MW 1.18” x 0.39”</td>
<td>6.83</td>
<td>3.1</td>
<td>266.6</td>
<td>1.720</td>
</tr>
<tr>
<td>17020222</td>
<td>ADA Mesh grating</td>
<td>galvanized steel</td>
<td>19.70”-8.74”-0.78”</td>
<td>B 125 kN</td>
<td>MW 1.18” x 0.39”</td>
<td>9.92</td>
<td>4.5</td>
<td>247.23</td>
<td>1.595</td>
</tr>
<tr>
<td>17020223</td>
<td>ADA Mesh grating</td>
<td>galvanized steel</td>
<td>19.70”-8.74”-0.78”</td>
<td>B 125 kN</td>
<td>MW 1.18” x 0.39”</td>
<td>19.40</td>
<td>8.8</td>
<td>255.75</td>
<td>1.650</td>
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<tr>
<td>17020228</td>
<td>ADA HEELPROOF perforated grating</td>
<td>galvanized steel</td>
<td>39.40”-8.74”-0.78”</td>
<td>B 125 kN</td>
<td>MW 1.18” x 0.39”</td>
<td>29.76</td>
<td>13.5</td>
<td>44.64</td>
<td>2.165</td>
</tr>
<tr>
<td>17020229</td>
<td>ADA HEELPROOF perforated grating</td>
<td>galvanized steel</td>
<td>19.70”-8.74”-0.78”</td>
<td>B 125 kN</td>
<td>MW 1.18” x 0.39”</td>
<td>14.77</td>
<td>6.7</td>
<td>44.64</td>
<td>2.880</td>
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<td>17020236</td>
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<td>galvanized steel</td>
<td>39.40”-8.74”-0.78”</td>
<td>D 400 kN</td>
<td>MW 0.98” x 0.39”</td>
<td>34.61</td>
<td>15.7</td>
<td>217.0</td>
<td>1.403</td>
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<td>17020237</td>
<td>ADA Mesh grating</td>
<td>galvanized steel</td>
<td>19.70”-8.74”-0.78”</td>
<td>D 400 kN</td>
<td>MW 0.98” x 0.39”</td>
<td>17.64</td>
<td>8.0</td>
<td>215.45</td>
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<tr>
<td>17020103</td>
<td>Ductile iron longitudinal grating</td>
<td>ductile iron</td>
<td>19.70”-8.74”-0.78”</td>
<td>D 400 kN</td>
<td>Mesh 1.14” x 0.51”</td>
<td>7.50</td>
<td>3.6</td>
<td>145.7</td>
<td>0.940</td>
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<tr>
<td>17020180</td>
<td>HEELPROOF Ductile iron grating VILLE</td>
<td>ductile iron</td>
<td>19.70”-8.74”-0.78”</td>
<td>D 400 kN</td>
<td>Mesh 0.31” wide slots</td>
<td>18.96</td>
<td>8.6</td>
<td>149.6</td>
<td>0.65</td>
</tr>
</tbody>
</table>

### Gratings: FILCOTEN® pro 300 (12”) with fiX self-locking system and additional 4-point bolting.

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Gratings</th>
<th>Material</th>
<th>Dimensions in inches / mm</th>
<th>Load Class as per EN-standard</th>
<th>Slot / Mesh width</th>
<th>Weight LBS</th>
<th>Inlet cross-section sq. inches</th>
<th>Inlet cross-section cm²/m</th>
<th>LBS/kg</th>
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</thead>
<tbody>
<tr>
<td>17030223</td>
<td>ADA Mesh grating</td>
<td>galvanized steel</td>
<td>39.40”-13.66”-0.98”</td>
<td>C 250 kN</td>
<td>MW 1.18” x 0.39”</td>
<td>50.92</td>
<td>23.1</td>
<td>357.37</td>
<td>2.105</td>
</tr>
<tr>
<td>17030224</td>
<td>ADA Mesh grating</td>
<td>galvanized steel</td>
<td>19.70”-13.66”-0.98”</td>
<td>C 250 kN</td>
<td>MW 1.18” x 0.39”</td>
<td>25.57</td>
<td>11.6</td>
<td>355.72</td>
<td>2.295</td>
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<tr>
<td>17030103</td>
<td>Ductile iron longitudinal grating</td>
<td>ductile iron</td>
<td>19.70”-13.66”-0.98”</td>
<td>E 600 kN</td>
<td>Mesh 1.4” x 0.51”</td>
<td>39.46</td>
<td>17.9</td>
<td>227.0</td>
<td>1.465</td>
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<tr>
<td>17030180</td>
<td>HEELPROOF Ductile iron grating VILLE</td>
<td>ductile iron</td>
<td>19.70”-13.66”-0.98”</td>
<td>E 600 kN</td>
<td>Mesh 0.31” wide slots (19 mm)</td>
<td>43.87</td>
<td>19.9</td>
<td>80.6</td>
<td>0.50</td>
</tr>
</tbody>
</table>

### Grating variations for FILCOTEN® pro and pro mini NW 300

- **Mesh grating**: MW 1.18” x 0.39” (10x30 mm)
- **Ductile iron longitudinal grating**: MW 1.14” x 0.51” (12x13 mm)
- **Ductile iron VILLE grating**: SW 0.31” (8 mm), cl. E

Enter range also available in Stainless steel.
We always do the same: forge new paths.
Drainage systems in car parks are a necessity and faced with a wide range of challenges, which are not usually dealt with by traditional drainage systems. FILCOTEN® parkline is a different story: our system shows that HPC (High Performance Concrete), a modern mineral material combined with a sophisticated structure, is the right solution for any challenge.

FILCOTEN® parkline is a different story: our system shows that HPC (High Performance Concrete), a modern mineral material combined with a sophisticated structure, is the right solution for any challenge.

**The best drainage performance with maximum efficiency.**
Alongside optimized drainage performance, the parkline system offers a variety of properties for increasing efficiency, both during installation and in daily use.

**Intelligent drain cover**
- Drain cover made from V2A stainless steel
- Can easily be removed for cleaning
- Functions as a sturdy cover and walkway bridge and thus increases accessibility

**Comb Profile**
- Suitable for wheelchairs
- Slot width of 0.5” or 0.72” (12.5 or 18 mm), based on requirements of EN 1433
- Almost no height difference from the surrounding roadway

**Very quiet**
- Even cross-section & monolithic construction prevent noise when driven over
- No complaints from residents about rattling grates

**Installation height/width**
Available in three versions:
- H = 1.4” (35 mm), W = 6” (150 mm) (as shown)
- H = 2” (50 mm), W = 6” (150 mm)
- H = 2” (50 mm), W = 12” (300 mm)

**Drainage-optimized channel body**
The draining water is channeled into the drain in the center via the two branch channels.

**Vertical outlet DN 100**

**Innovative connecting element**
- Allows for a wide variety of combinations for channel runs (cross, T/L connection)
- Made entirely from FILCOTEN®, high stability
- Efficient water conductivity thanks to intelligent construction

**Sophisticated sealing joint**
- Sealable butt joint, easily accessible and inspectable
- Based on requirements of EN 1433
- In order to create a sealed system and connect with the surface coating system, a seal should be made below the parkline elements.

**Powerful connection**
The coefficient of expansion for FILCOTEN® is identical to that of concrete, meaning that the material is perfectly suited to ensuring a firm fit in the long term.

**Perfect fit**
Side fixing pouches reinforce the firm fit in the concrete bed and ensure additional stability.

**Easy cleaning and maintenance**
- No separate grates
- Easy to check for soiling without removing grates
- Easy to clean thanks to clear cross section without covers

**C250 class**

**Innovative connecting element**
- Allows for a wide variety of combinations for channel runs (cross, T/L connection)
- Made entirely from FILCOTEN®, high stability
- Efficient water conductivity thanks to intelligent construction

**Joint raking**

**Presser washer**

**Sweepers**

**Very quiet**
- Even cross-section & monolithic construction prevent noise when driven over
- No complaints from residents about rattling grates

**Easy cleaning and maintenance**
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- Easy to check for soiling without removing grates
- Easy to clean thanks to clear cross section without covers

**Installation height/width**
Available in three versions:
- H = 1.4” (35 mm), W = 6” (150 mm) (as shown)
- H = 2” (50 mm), W = 6” (150 mm)
- H = 2” (50 mm), W = 12” (300 mm)

**Drainage-optimized channel body**
The draining water is channeled into the drain in the center via the two branch channels.

**Vertical outlet DN 100**

**Intelligent drain cover**
- Drain cover made from V2A stainless steel
- Can easily be removed for cleaning
- Functions as a sturdy cover and walkway bridge and thus increases accessibility

**Comb Profile**
- Suitable for wheelchairs
- Slot width of 0.5” or 0.72” (12.5 or 18 mm), based on requirements of EN 1433
- Almost no height difference from the surrounding roadway

**Very quiet**
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**Easy cleaning and maintenance**
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- Easy to clean thanks to clear cross section without covers

**C250 class**

### FILCOTEN® parkline, nominal width 150 - installation height 1.37” (35 mm)
Comb Channel made from FILCOTEN HPC (High Performance Concrete) up to class C, Capacity: 1.1 l/m

<table>
<thead>
<tr>
<th>Art. no.</th>
<th>Channel body</th>
<th>Slopes</th>
<th>Weight lbs/kg</th>
<th>Pcs/pallet</th>
</tr>
</thead>
<tbody>
<tr>
<td>12515005</td>
<td>FILCOTEN parkline 150, H=1.37” (35 mm), SW=0.49” (12.5 mm)</td>
<td>0 %</td>
<td>0.24/0.19</td>
<td>90</td>
</tr>
<tr>
<td>12515015</td>
<td>FILCOTEN parkline 150, H=1.37” (35 mm), SW=0.49” (12.5 mm), with channel body</td>
<td>0 %</td>
<td>0.24/0.19</td>
<td>90</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Art. no.</th>
<th>Accessories</th>
<th>Material</th>
<th>Weight lbs/kg</th>
<th>Pcs/pallet</th>
</tr>
</thead>
<tbody>
<tr>
<td>12515066</td>
<td>Cross corner element, 6.00”-6.02”-1.37” (153-153-35 mm), H=1.37” (35 mm), SW=0.49” (12.5 mm)</td>
<td>galvanized</td>
<td>2.94/1.34</td>
<td>80</td>
</tr>
<tr>
<td>12515380</td>
<td>Drain cover, double bridge</td>
<td>V2A steel</td>
<td>0.04/0.02</td>
<td>30</td>
</tr>
<tr>
<td>12515385</td>
<td>Front or end plate</td>
<td>V2A steel</td>
<td>0.04/0.02</td>
<td>30</td>
</tr>
</tbody>
</table>

### FILCOTEN® parkline, nominal width 150 - installation height 1.97” (50 mm)
Comb Channel made from FILCOTEN HPC (High Performance Concrete) up to class C, Capacity: 2.25 l/m

<table>
<thead>
<tr>
<th>Art. no.</th>
<th>Channel body</th>
<th>Slopes</th>
<th>Weight lbs/kg</th>
<th>Pcs/pallet</th>
</tr>
</thead>
<tbody>
<tr>
<td>12515060</td>
<td>FILCOTEN parkline 150, H=1.97” (50 mm), SW=0.7” (18 mm)</td>
<td>0 %</td>
<td>1.50/1.07</td>
<td>80</td>
</tr>
<tr>
<td>12515070</td>
<td>FILCOTEN parkline 150, H=1.97” (50 mm), SW=0.7” (18 mm), with channel body</td>
<td>0 %</td>
<td>1.50/1.07</td>
<td>80</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Art. no.</th>
<th>Accessories</th>
<th>Material</th>
<th>Weight lbs/kg</th>
<th>Pcs/pallet</th>
</tr>
</thead>
<tbody>
<tr>
<td>12515380</td>
<td>Cross corner element with hole pattern, 6.85”-6.06”-1.96” (174-154-50 mm), H=1.96” (50 mm), SW=0.7” (18 mm)</td>
<td>galvanized</td>
<td>2.46/1.12</td>
<td>50</td>
</tr>
<tr>
<td>12515385</td>
<td>Drain cover</td>
<td>V2A steel</td>
<td>0.11/0.05</td>
<td>50</td>
</tr>
<tr>
<td>12515380</td>
<td>Front or end plate</td>
<td>V2A steel</td>
<td>0.11/0.05</td>
<td>50</td>
</tr>
</tbody>
</table>

### FILCOTEN® parkline, nominal width 300 - installation height 1.97” (50 mm)
Comb Channel made from FILCOTEN HPC (High Performance Concrete) up to class C, Capacity: 4.5 l/m

<table>
<thead>
<tr>
<th>Art. no.</th>
<th>Channel body</th>
<th>Slopes</th>
<th>Weight lbs/kg</th>
<th>Pcs/pallet</th>
</tr>
</thead>
<tbody>
<tr>
<td>12515060</td>
<td>FILCOTEN parkline 300, H=1.97” (50 mm), SW=0.7” (18 mm)</td>
<td>0 %</td>
<td>2.80/2.36</td>
<td>80</td>
</tr>
<tr>
<td>12515070</td>
<td>FILCOTEN parkline 300, H=1.97” (50 mm), SW=0.7” (18 mm), with channel body</td>
<td>0 %</td>
<td>2.80/2.36</td>
<td>80</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Art. no.</th>
<th>Accessories</th>
<th>Material</th>
<th>Weight lbs/kg</th>
<th>Pcs/pallet</th>
</tr>
</thead>
<tbody>
<tr>
<td>12515380</td>
<td>Cross corner element, 11.86”-11.86”-1.97” (305-305-50 mm), H=1.97” (50 mm), SW=0.7” (18 mm)</td>
<td>galvanized</td>
<td>6.72/1.60</td>
<td>40</td>
</tr>
<tr>
<td>12515385</td>
<td>Drain cover</td>
<td>V2A steel</td>
<td>0.13/0.09</td>
<td>20</td>
</tr>
<tr>
<td>12515380</td>
<td>Front or end plate</td>
<td>V2A steel</td>
<td>0.13/0.09</td>
<td>20</td>
</tr>
</tbody>
</table>

**Simple, extremely sturdy laying.**
- Mounting with installation chairs possible
- Channel bodies are pre-installed with elevation and are then completely set in concrete
- Fastening with screws ensures quick and easy laying as well as high stability
- No heavy equipment needed for installation
- Time and cost-savings during installation
- Temporary cover protects the channel body during concrete pouring

**Perfect for renovations.**
- Can be applied regardless of previously used systems owing to the flat construction
- Installation in existing recesses
Sustainability and innovation are the central components of our company's culture. This can be seen from the materials, the manufacturing processes and the energy used. Thus, we are a member of Climate Alliance Austria: the largest municipal climate protection network in Austria.

FILCOTEN® HPC (High Performance Concrete) is not just a highly advanced material, but ultimately the result of all our efforts to create cutting-edge technology that is in harmony with nature.

Environmentally friendly production process.
We also focus on environmental protection in the production process. Whether it be in selecting raw materials or avoiding unnecessary waste. Consequently, we have implemented a certified environmental/energy management scheme in line with ISO 14001 and 50001 at our site in Oberwang, Austria.

Mineral raw material, recyclable and energy-efficient.
FILCOTEN® HPC is a mineral raw material that is 100% recyclable (certified by BPS GmbH, the Upper Austrian soil and construction materials test center) and free from resins and solvents. To manufacture it, we rely 100% on green electricity and it is nearly free from the use of resins and solvents.

Certified: non-toxic.
- meets the strict criteria of the Rosenheim Institute for Building Biology (IBR)
- does not harm people’s health and the environment
- guaranteed to be ecologically safe as it is tested for biocides, solvents, VOC, heavy metals and radioactivity
The right fit that seals well.
BG-SIGMA stainless steel shallow channel system.

The BG-SIGMA drainage channels are made from 1.4301 or higher quality stainless steel and are used to conduct water from the floor area into a waste water collecting system. The specially developed flange connector ensures leak-proof laying of the channel run.

This unique, high-quality drainage system can be adapted to suit any needs. Most height, width and load capacity are possible. Stainless steel gratings up to class C 250 are obtainable as covers.

Areas of application:
Car parks, parking areas, food processing sites, chemical plants, breweries, dairies, supermarkets, catering, hospitals, etc.

- 1.4301 (V2A) stainless steel mesh grating
- Mesh 1.2"x0.4" or 1.2"x1.2" (30x10 or 30x30 mm)
- Load class B 125 or C 250
- Optional bolting upon demand

- Made from 1.4301 or higher quality stainless steel
- Nominal size: 6" (150 mm)
- Visible width: 8.32" (208 mm)
- Element length: 160" (4000 mm)
- Material thickness: 0.06" (1.5 mm)

- As a connecting element
- Also for T, corner and cross connections
- As stacking frame for a catch basin/sump pit constructed on site

- Perforated, continuous flange plate
- Durable connection of the floor coating to the drainage channels

- Bolted flange
- Seal made from NBR
- Complete with stainless steel M6 bolting

- Bolted flange
- Seal made from NBR
- Complete with stainless steel M6 bolting

- As a connecting element
- Also for T, corner and cross connections
- Can be placed anywhere in the channel run
- With leak-proof, welded stainless steel basin
- As a catch basin or retention basin

- Liquid-tight joints
- Bolted flange
- Seal made from NBR
- Complete with stainless steel M6 bolting

- As a connecting element
- Also for T, corner and cross connections
- Can be placed anywhere in the channel run
- With leak-proof, welded stainless steel basin
- As a catch basin or retention basin

- Adjustable installation supports
- Front/end plate - Tightly welded (incl. perforated flange plate)
- Tight closure of channel run
- Perforated, continuous flange plate - Durable connection of the floor coating to the drainage channels
- Anchor bar - For permanent fixing of the channel body in the adjacent floor structure
- Outlet elements - Outlet nozzle with diameter of choice
- Can be placed individually in the channel run
- Outlet as a supply line, e.g. for an oil separator
- Sump pit frame - As a connecting element
- Also for T, corner and cross connections
- As stacking frame for a catch basin/sump pit constructed on site

For installation with self-leveling epoxy pavements
BG-SIGMA

BG-SIGMA grid unit, nominal size 150 - Stainless Steel V2A
Channel element without slope, with welded on sealing flange, standard length 157.48” (4000 mm)

<table>
<thead>
<tr>
<th>Material</th>
<th>Height</th>
<th>Weight</th>
<th>Can/US price</th>
</tr>
</thead>
<tbody>
<tr>
<td>V2A stainless steel</td>
<td>3.74’’</td>
<td>11.66</td>
<td>15.63</td>
</tr>
</tbody>
</table>

BG-SIGMA drain elements
Sump pit frame or sump pit well, can be placed anywhere in the channel run, as a connecting, end, T or cross piece

<table>
<thead>
<tr>
<th>Material</th>
<th>Height</th>
<th>Weight</th>
<th>Can/US price</th>
</tr>
</thead>
<tbody>
<tr>
<td>V2A stainless steel</td>
<td>3.94’’</td>
<td>12.10</td>
<td>15.63</td>
</tr>
</tbody>
</table>

Gratings and accessories
for BG-SIGMA box drainage systems, nominal size 6” (150 mm)

<table>
<thead>
<tr>
<th>Material</th>
<th>Height</th>
<th>Weight</th>
<th>Can/US price</th>
</tr>
</thead>
<tbody>
<tr>
<td>V2A stainless steel</td>
<td>3.94’’</td>
<td>5.05</td>
<td>5.5</td>
</tr>
</tbody>
</table>

For installation with self-leveling epoxy pavements

Please note that these products are manufactured to order – no in-stock products!
Grate load class definitions

There are two main grate definitions in the trench drain industry to help specifiers select the appropriate grate:

**ANSI A112.21.1M**
- Grates and top rims shall be designed to meet the following loading classifications in a static condition.

<table>
<thead>
<tr>
<th>Class</th>
<th>Load Type</th>
<th>Safe Live Load (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Duty</td>
<td>All grates having safe live load</td>
<td>up to or exceeding 3,372 lbs</td>
</tr>
<tr>
<td>Medium Duty</td>
<td>All grates having safe live load</td>
<td>over 10,000 lbs</td>
</tr>
<tr>
<td>Heavy Duty</td>
<td>All grates having safe live load</td>
<td>over 10,000 lbs</td>
</tr>
<tr>
<td>Extra Heavy Duty</td>
<td>All grates having safe live load</td>
<td>over 10,000 lbs</td>
</tr>
<tr>
<td>Special Duty</td>
<td>All grates having safe live load</td>
<td>over 10,000 lbs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Load Class</th>
<th>Design Load (lbs)</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Duty</td>
<td>Design load up to or exceeding 3,372 lbs</td>
<td>For pedestrian foot traffic only.</td>
</tr>
<tr>
<td>Medium Duty</td>
<td>Design load of at least 28,100 lbs</td>
<td>For light pneumatic tire traffic.</td>
</tr>
<tr>
<td>Heavy Duty</td>
<td>Design load of at least 56,200 lbs</td>
<td>For Commercial pneumatic tire traffic.</td>
</tr>
<tr>
<td>Extra Heavy Duty</td>
<td>Design load of at least 89,920 lbs</td>
<td>For pneumatic forklift traffic.</td>
</tr>
<tr>
<td>Special Duty</td>
<td>Design load of at least 134,800 lbs</td>
<td>For Solid tire traffic, and impacts.</td>
</tr>
</tbody>
</table>

**DIN 19580/ EN1433**
- Grates and top rims shall be designed to meet the following loading classifications in a static condition.

<table>
<thead>
<tr>
<th>Class</th>
<th>Design Load (lbs)</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load Class A</td>
<td>Design load of at least 89,920 lbs</td>
<td>For pedestrian foot traffic only.</td>
</tr>
<tr>
<td>Load Class B</td>
<td>Design load of at least 134,800 lbs</td>
<td>For Commercial Solid tire traffic.</td>
</tr>
<tr>
<td>Load Class C</td>
<td>Design load of at least 202,320 lbs</td>
<td>For airport traffic.</td>
</tr>
</tbody>
</table>

Transportation Classifications

The American Association of State Highway and Transportation Officials’ (AASHTO) "Standard Specification for Highway Bridges" defines H-20 loading as a two-axle truck with a maximum dual-wheel load of 16,000 lbs. HS-20 loading is defined as a tractor truck with a tandem axle semi-trailer with a dual-wheel load of 16,000 lbs (7,230 kg).

The FAA (Federal Aviation Administration) Advisory Circular AC 150/5320-6D describes aircraft loading as 100,000 lbs (45,360 kg), placed over a 9” x 9” (228 x 228 mm) area. The Americans with Disabilities Act (ADA) stipulates that the slot width be limited on gratings in walkways and elongated slots must be placed longitudinally so that they are perpendicular to the dominant direction of travel.

Heel Proof is defined as slots or perforations that are less than 0.25” (6.4 mm) in width or diameter.