Guide-Rails: Vertical

For vertical application
For fixing onto existing ladders or climbing irons. Comes with joint plate. Mounting brackets extra to order. Maximum mounting distance: 1680 mm. Installation of bracket to rail is carried out through the rectangular cut outs in the back of the guide-rail. Maximum section length: 4480 mm.

Anodized aluminium
Rail profile: 52 x 33 mm
Weight: 1.2 kg per metre
Part No. FS-SAL-<length in mm>

Galvanized steel
Rail profile: 50 x 32 mm
Weight: 3.2 kg per metre
Part No. FS-SST-<length in mm>

Stainless steel, pickled
Rail profile: 50 x 32 mm
Weight: 3.2 kg per metre
Part No. FS-SA4-<length in mm>

Bending
See page C 2.
Smallest radii for guide-rails, made of aluminium, galvanized/stainless steel, shown in mm:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Page</th>
<th>Article</th>
<th>Minimum radius in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS-SAL</td>
<td>C 1</td>
<td>Anodized aluminium</td>
<td>2250</td>
</tr>
<tr>
<td>FS-SST</td>
<td>C 1</td>
<td>Galvanized steel</td>
<td>1000</td>
</tr>
<tr>
<td>FS-SA4</td>
<td>C 1</td>
<td>Stainless steel pickled</td>
<td>1000</td>
</tr>
</tbody>
</table>

Important information for planning:

Guide rail, Aluminium  
Part No. FS-SAL<Typ>

Guide rail, Galvanized steel  
Part No. FS-SST<Typ>

Guide rail, Stainless steel pickled  
Part No. FS-SA4<Typ>

<table>
<thead>
<tr>
<th>Typ 1</th>
<th>Typ 2</th>
<th>Typ 3</th>
<th>Typ 4</th>
<th>Typ 5</th>
</tr>
</thead>
</table>

A = Bottom edge of ladder to salient point of structure  
B = Of-set (mm)  
C = Angle (max. 15 °)  
D = Bottom edge to centre of obstruction  
E = Width of obstruction  
F = Upper edge of ladder to off-set  
G = Of-set (max. 260 mm)

The length of the bend depends on the bending radius and on the angle (type 1 + 2) and/or off-set (typed 3 - 5).

Technical specifications are subject to change without notice.
Guide-Rails: Vertical End-Stops

**Top End-Stop, spring activated**
Prevents the fall arrester from either being inserted incorrectly or accidentally slipping out of the guide-rail. For fitting to the very top of the rail system. Comes with all fixings.

**Stainless steel, pickled**
Weight: 0.2 kg/each
Part No. 21050

![Top End-Stop, spring activated](image)

**Bottom End-Stop, spring activated**
Prevents the fall arrester from either being inserted incorrectly or accidentally slipping out of the guide-rail. For fitting to the very beginning of the rail system. Comes with all fixings.

**Stainless steel, pickled**
Weight: 0.2 kg/each
Part No. 21049

![Bottom End-Stop, spring activated](image)

**Rigid End-Stop**
Does not allow the fall arrester being taken out of the very top ladder section. Comes with all fixings.

**Stainless steel, pickled**
Weight: 0.2 kg/each
Part No. 11634

![Rigid End-Stop](image)
Guide-Rails: Vertical Mounting Brackets

Shim
To compensate for different heights of individual rungs. Clamping rail screw length must be adapted as necessary.

Galvanized steel
\[ t = 5 \text{ mm} \]
Weight: 0.4 kg/each
Part No. 18861
\[ t = 3 \text{ mm} \]
Weight: 0.23 kg/each
Part No. 18860
Stainless steel, pickled
\[ t = 5 \text{ mm} \]
Weight: 0.4 kg/each
Part No. 18863
\[ t = 3 \text{ mm} \]
Weight: 0.25 kg/each
Part No. 18862
\[ t = 2 \text{ mm} \]
Weight: 0.15 kg/each
Part No. 18859

Clamp
For fixing onto the center rungs of existing ladders, or climbing irons. Comes with all installation elements. Support structure must be checked for sufficient strength.

Weight: approx. 0.5 kg/each

<table>
<thead>
<tr>
<th>Galvanized steel</th>
<th>Part-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolt dimension M 12 x 70 For rung diameter up to 25 mm</td>
<td>10903</td>
</tr>
<tr>
<td>Bolt dimension M 12 x 80 For rung diameter 26 up to 35 mm</td>
<td>14804</td>
</tr>
<tr>
<td>Bolt dimension M 12 x 90 For rung diameter 36 up to 45 mm</td>
<td>14805</td>
</tr>
<tr>
<td>Bolt dimension M 12 x 100 For rung diameter 46 up to 55 mm</td>
<td>14806</td>
</tr>
<tr>
<td>Bolt dimension M 12 x 120 For rung diameter 56 up to 70 mm</td>
<td>14807</td>
</tr>
<tr>
<td>Stainless steel, pickled</td>
<td>Part-No.</td>
</tr>
<tr>
<td>Bolt dimension M 12 x 70 For rung diameter up to 25 mm</td>
<td>14809</td>
</tr>
<tr>
<td>Bolt dimension M 12 x 80 For rung diameter 26 up to 35 mm</td>
<td>14813</td>
</tr>
<tr>
<td>Bolt dimension M 12 x 90 For rung diameter 36 up to 45 mm</td>
<td>14814</td>
</tr>
<tr>
<td>Bolt dimension M 12 x 100 For rung diameter 46 up to 55 mm</td>
<td>14815</td>
</tr>
<tr>
<td>Bolt dimension M 12 x 120 For rung diameter 56 up to 70 mm</td>
<td>14816</td>
</tr>
</tbody>
</table>

Technical specifications are subject to change without notice.
Guide-Rails: Vertical Mounting Brackets

Bracket
Used for fixing of guide-rails onto the side of climbing irons. Comes with all installation elements. For step irons of 20-25 mm diameter.

Galvanized steel
Weight: 1.6 kg/each
Part No. 11319

Stainless steel, pickled
Weight: 1.6 kg/each
Part No. 17989

Clamp
For clamping guide-rails to flat iron side members of already mounted ladders. Comes with all installation elements.

Standard:
Dimension "b" = max. 60 mm
Dimension "h" = max. 15 mm

Galvanized steel
Weight: 1.6 kg/each
Part No. 11382

Stainless steel, pickled
Weight: 1.6 kg/each
Part No. 16847

Special version:
when ordering please indicate dimension "h" and "b".

Weight: upon request

Galvanized steel
Part No. 19091

Stainless steel, pickled
Part No. 21284
Guide-Rails: Vertical Mounting Brackets

Bracket
For clamping guide-rails to round iron side members diameter 35 -70 mm of already mounted ladders. Comes with all installation elements.

Galvanized steel
Weight: 1.9 kg/each
Part No. 18363

Bracket
For fastening guide-rails onto a structure, e.g. between step irons. Comes with installation elements for fixing guide-rail to bracket. Support structure must be checked for sufficient strength.

Galvanized steel
Weight: 0.6 kg/each
Part No. 11102

Stainless steel, pickled
Weight: 0.6 kg/each
Part No. 16838

Bracket
For fixing guide-rails onto side-corner struts of existing ladders. Comes with all installation elements.

Galvanized steel
Weight: 1.3 kg/each
Part No. 17228

Technical specifications are subject to change without notice.
Guide-Rails: Vertical Footrests

**Footrest for Chimneys**
For installation on climbing irons with diameter max. 20mm. Pivots laterally. Comes with all installation elements.

- **Galvanized steel**
  - Weight: 14.5 kg/each
  - Part No. 16124
- **Stainless steel, pickled**
  - Weight: 14.5 kg/each
  - Part No. 18008

**Pivotable Footrest**
For use on ladders with side-rails made of flat iron up to an iron width of 50 mm. Comes with all installation elements.

- Weight: 19 kg/each
- Hinge on left side
- **Galvanized steel**
  - Part No. 21516
- **Stainless steel, pickled**
  - Part No. 23430
- Hinge on right side
- **Galvanized steel**
  - Part No. 21520
- **Stainless steel, pickled upon request.**

**Folding Footrest**
Unfolds to allow unrestricted climber access. Complete with fixings. The distance between rungs shall be min. 220 mm. Max. rung diameter: 30 mm.

- **Galvanized steel**
  - Weight: 4.6 kg/each
  - Part No. 23724
- **Stainless steel, pickled upon request.**

*Footrests for climbing paths with reinforcement upon request.*

*Technical specifications are subject to change without notice.*
Guide-Rails: Vertical Exit Section

Exit Section
Used for secure removing/inserting the fall arrester from/into the guide-rail, e.g. on platforms. Suitable for rung spacing of 250 - 320 mm with max. rung diameter of 24 mm. Special sizes on request. In this case please enclose sketch with ladder cross-section, see page C 11. A single-way assembly aid is part of the scope of supply.

Galvanized steel
Weight: 3.4 kg/each
Part No. 11317

Stainless steel, pickled
Weight: 3.4 kg/each
Part No. 16978

- Recommended installing height above platform: ca. 1.000 mm.
Guide-Rails: Vertical Accessories

Turntable
For safe transfer from vertical to horizontal. Made of stainless steel plate and aluminium rail section. Please specify the profile of the horizontal and vertical guide-rail.

Weight: 2.6 kg/each
Stainless steel, pickled

Bending radius horizontal guide rail
> 1000 mm
Part No. 11607

Bending radius horizontal guide rail
< 1000 mm
Part No. 20349

Cost for mounting turntable
Part No. 16884

Ho-Ver turn table
For safe change of travel direction from vertical to horizontal to vertical travel. The direction of travel can only be changed to the left or to the right. Consult Söll technical support department for other installation combinations.

Weight: 5,0kg per 1 unit
Stainless steel pickled
Part No. 22322

Technical specifications are subject to change without notice.
Guide Rails: Vertical Accessories

Mounting bracket with adjustable projection
Projection: 120 mm up to 160 mm. Comes with all installation elements. To be used for mounting turntable Part No. 11607 only.

**Galvanized steel**
- Weight: 1.6 kg/each
- Part No. 10867

**Stainless steel, pickled**
- Weight: 1.6 kg/each
- Part No. 11591

Mounting bracket with adjustable projection
Projection: 160 mm up to 200 mm. Comes with all installation elements. To be used for mounting turntable Part No. 11607 only.

**Galvanized steel**
- Weight: 1.8 kg/each
- Part No. 10869

**Stainless steel, pickled**
- Weight: 1.8 kg/each
- Part No. 15250
Guide-Rails: Vertical Accessories

Reinforcement/Strengthening
Is required, when the distance between last mounting point and top-end of the rail exceeds 380 mm. It must be bolted onto the guide-rail at a distance of 560 mm and must extend down over at least two mounting brackets. Square tube 50 x 30 x 3 mm or 50 x 50 x 4 mm. Comes with all installation elements.

- **Galvanized steel**
  - Weight: 3.3 kg per metre
  - Part No. HV-ST-{length in mm}  
- **Stainless steel, pickled**
  - Weight: 3.3 kg per metre
  - Part No. HV-A4-{length in mm}  
- **Anodized aluminium**
  - Weight: 1.9 kg per metre
  - Part No. HV-AL-{length in mm}  

Identification plate
for Fall Protection Systems - Guide Rails.

Part No. 19878 not graved
engraved

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Denomination</th>
</tr>
</thead>
<tbody>
<tr>
<td>20866</td>
<td>Guide Rails Alu</td>
</tr>
<tr>
<td>20867</td>
<td>Guide Rails Galvanized Steel</td>
</tr>
<tr>
<td>20868</td>
<td>Guide Rails Stainless Steel</td>
</tr>
</tbody>
</table>
Guide-Rails: Vertical Accessories

Shaft Entering Device
For safe entry into manholes. The device is inserted into the female coupling on the top of the guide-rail in the manhole. This device can be moved from one manhole ladder to another.

Stainless steel, pickled
Weight: 8,0 kg/each
Part No. 17065

Female Coupling for Shaft Entering Device
This device is fixed to the top of the guide-rail in the manhole.

Stainless steel, pickled
Weight: 0,8 kg/each
Part No. 16191