Weldable couplers

Fitting instructions
Weldable coupler 15.0 and 20.0

Product description

The Weldable couplers 15.0 and 20.0 are used for anchoring Tie-rods 15.0 and 20.0 to steel components.

WARNING ➤ The Weldable couplers are not suitable for joining the tie-rods themselves.

How to attach:

➤ Ensure that the coupler is welded-on centrally, so that no additional moments are created in the joint.
➤ The parts to which the couplers are to be connected must be suitably dimensioned.
➤ Observe all the standards and regulations applying to on-site welding work!
➤ Do not weld the couplers if they have tie-rods screwed into them – this would risk fracturing them!

Weldable coupler 15.0:
• Permitted capacity to DIN 18216: 90 kN
• Permitted capacity, allowing a 1.6 : 1 factor of safety against failure: 120 kN

Weldable coupler 20.0:
• Permitted capacity to DIN 18216: 150 kN
• Permitted capacity, allowing a 1.6 : 1 factor of safety against failure: 220 kN

➤ To achieve the required permitted capacity, it is necessary to weld 2 fillet welds on each side of the weldable coupler, along its entire length.

<table>
<thead>
<tr>
<th>Weldable coupler</th>
<th>Load capacity [kN]</th>
<th>Fillet welds</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N° of welds</td>
<td>Thickness a [mm]</td>
</tr>
<tr>
<td>15.0</td>
<td>90</td>
<td>4</td>
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<tr>
<td></td>
<td>120</td>
<td>4</td>
</tr>
<tr>
<td>20.0</td>
<td>150</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>220</td>
<td>4</td>
</tr>
</tbody>
</table>

A Weldable coupler 15.0 and 20.0
B Steel component
C Fillet weld

➤ Completely screw in the tie-rod, regardless of the required load capacity.
Practical example of situations with reduced load capacity

**WARNING**

➤ All connections must be statically dimensioned and designed, especially the load capacity of the welds and of the base metal.

Welded onto I section

End face welded onto I section

Instead of welding Weldable couplers 15.0 to I sections by their end faces, we recommend using 'Weldable couplers 15.0 for sheet wall'.

Welded onto reinforcement rod

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A Weldable coupler
B I section
C Tie-rod
D Weldable coupler 15.0 for sheet wall
E Reinforcement rod
Weldable coupler 15.0 for sheet wall

Product description

The ‘Weldable coupler 15.0 for sheet wall’ is used for anchoring Tie rods 15.0 to a steel component.

![WARNING]

➤ The Weldable coupler 15.0 for sheet wall is not suitable for joining the tie-rods themselves.

Basic drawings of product

Weldable coupler 15.0 for sheet wall
Art.n° 581693000

How to attach:

![WARNING]

➤ Check with the site to determine whether the wall thickness and quality of the steel walls are suitable for transferring the expected forces.
➤ Observe all the standards and regulations applying to on-site welding work!
➤ Do not weld the couplers if they have tie-rods screwed into them – this would risk fracturing them!

- Permitted capacity to DIN 18216: 90 kN
- Permitted capacity, allowing a 1.6 : 1 factor of safety against failure: 120 kN

➤ To achieve the required permitted capacity, it is necessary to weld a fillet weld along the entire length of the plate, on both sides.

➤ Completely screw in the tie-rod, regardless of the required load capacity.

Practical examples

Welded onto sheet-pile wall

Welded onto I section

- A Weldable coupler 15.0 for sheet wall
- B Fillet weld (a = 4 mm, l = 50 mm)
- C Tie-rod 15.0
- D Fillet weld
- E I section