

Stainless steel twisted section bars for crack stabilisation

Application

- Stabilisation of cracks in masonry.
- Used in the renovation and restoration of listed and monumental buildings.

Properties

- Forms an optimal connection between different parts of the masonry when used with Ankermortel anchoring mortar.
- Cold-rolled.
- Stainless.

Directions

Preparation

- Make sure that the cracks are only due to temperature changes and no longer to the settling of the building. **Spiral anchors** are recommended for old (settled) constructions.
- Ideally, **Spiral anchors** should be applied when the crack is at its widest, i.e. in winter.
- Clear the horizontal joints around the crack. Respect the following guidelines:
 - o Thickness (height) of the cut: equal to the height of the joint. The full height of the joint needs to be removed.
 - o Length: normally the length of the cut will be 105 cm in order to be able to fit the 1 metre long spiral anchor.
 - o Vertical distance between anchors: usually 2 to 4 joints, i.e. 30 to 45 cm.
 - o Offset: Offset the anchors by 10 cm.
 - o Depth: grind to a depth of 50 to 60 mm. Never cut deeper than half the thickness of the wall.
 - o Distance to corners and edges: stay at least 500 mm from a corner and 490 mm from a wall edge.
- Clean the crack, remove loose mortar and dust.
- Rinse out the joint. This will also humidify the surface in advance.

Work method

- Prepare the anchoring mortar and apply it into the crack as deeply as possible. Apply approximately 1 cm thick.
- Push the **Spiral anchor** into the joint and into the anchoring mortar. If necessary, use the anchoring clips to hold the anchor in place.
- Then apply a second layer of anchoring mortar and press. Cover the **Spiral anchor** with at least 15 mm of anchoring mortar.
- Allow the anchoring mortar to cure for 1 to 2 days.
- Finish the joint using a grout in the desired colour.

Important remarks

- Always lay the **spiral anchors** straight, do not bend them.
- Several adjacent cracks can be connected by one bar per joint. Use the anchors on a roll for this.
- Crack repair requires extensive knowledge, consult with a stability engineer beforehand if necessary.
- It is the user's responsibility to ensure that this product is suitable for the purpose intended.

Technical characteristics

Steelquality: RVS 304

Weight:

6 mm	0,075 kg/m
8 mm	0,085 kg/m
10 mm	0,111 kg/m

Full cross-section:

6 mm	7,4 mm ²
8 mm	10,0 mm ²
10 mm	13,0 mm ²

Tensile strenght:

6 mm	8,62 kN
8 mm	11,01 kN
10 mm	15,13 kN

Bending strength:

6 mm	957 N/mm ²
8 mm	1013 N/mm ²
10 mm	955 N/mm ²

Extension (%):

6 mm	2,52
8 mm	2,98
10 mm	2,42

E-modulus:

6 mm	107 N/mm ²
8 mm	114 N/mm ²
10 mm	169 N/mm ²

Quantity to use

As needed

Packaging

Diameter Dn 6 mm: bars of 1 meter or per roll of 10 meter

Diameter Dn 8 mm: bars of 1 meter

Diameter Dn 10 mm: bars of 1 meter

Safety information – Transport – Handling and storage - Waste

Consult the most recent and product-related safety information sheet from Rewah in compliance with the (EU) 453/2010 annex II/A guidelines. The information on the abovementioned safety information sheet has been drawn up with the greatest care and is based on the knowledge available at the date of issue. We accept no liability for damage or hindrance of any kind which could be caused by the use of the product concerned.

Transport and storage

Store the product and its packaging dry and protect against moisture.

Storage life

Practically unlimited.

Considerations

The data included in this sheet, the application advices and other recommendations are based on extensive research and experience. They are however not binding also in relation to third party liability. They do not protect the customer against checking the products and directions for their suitability for the purpose. The characteristics and properties described are average values and analyses registered at 20°C, variances are tolerated. Our customer service will gladly answer your questions. The rewrite of this sheet replaces all previous sheets.