Data sheet
Joint Rope SG 300 N

**FIRE RESISTANCE CLASSES**
El 90, El 120 and El 180

**DESCRIPTION/APPLICATION**
Joint rope SG 300 N is a flexible and elastic sealing rope made of mineral fibres braided over with glass yarn. It serves the purpose of fireproof closing of horizontal and vertical component joints in or between fire resistant, separating walls and/or ceilings.

Joint rope SG 300 N is available in different dimensions (see Chart 1.1).
Joint rope SG 300 N is in line with the fire behaviour class A1 according to EN 13501-1*.

The joint rope is to maintain or restore the fire-resistance of separating components at those spots where they are interrupted or separated by joints.

The maximum lateral expansion capacity of Joint Rope SG 300 N is 7.4%.

The maximum vertical shear stress of horizontal joints is limited to \( \Delta h = 100 \) mm with regard to the state of assembly.

The joint rope does not serve the purpose of power transmission.

All separating components must meet the respectively demanded fire resistance classes according to EN 13501-2.

EXTRACT FROM THE EUROPEAN TECHNICAL ASSESSMENT

- Joint rope SG 300 N is in line with the fire behaviour class A1 according to EN 13501-1*.
- The joint rope is to maintain or restore the fire-resistance of separating components at those spots where they are interrupted or separated by joints.
- The maximum lateral expansion capacity of Joint Rope SG 300 N is 7.4%.
- The maximum vertical shear stress of horizontal joints is limited to \( \Delta h = 100 \) mm with regard to the state of assembly.
- The joint rope does not serve the purpose of power transmission.
- All separating components must meet the respectively demanded fire resistance classes according to EN 13501-2.
- The joint rope may be used as a closure of linear joints in connection with the following separating components:
  - Solid walls and solid ceilings made of porous concrete, concrete, reinforced concrete or masonry with a minimum raw density of 700 kg/m³.
- Thickness of the walls must be at least 100 mm.
- Thickness of the ceilings must be at least 150 mm.
- All particulars of the European Technical Assessment ETA-13/0059 for Joint Rope SG 300 N must be observed. A complete version of ETA-13/0059 is available as download on our Rex website.
ASSEMBLY TYPES

ASSEMBLY TYPE (A) Horizontal joint in/between ceilings or between walls and ceilings

ASSEMBLY TYPE (B) Vertical joint in/between walls

ASSEMBLY TYPE (C) Horizontal joint between ceilings and walls
DESCRIPTION AND APPLICATION

Please refer to Chart 1 for the selection of the appropriate joint rope (nominal diameter depending on the joint width to be closed). According to the Building Rules List, DIN classifications F 90, F 120 and F 180 are to be equatable to the EN classifications EI 90, EI 120 and EI 180.

<table>
<thead>
<tr>
<th>Assembly type</th>
<th>Joint width (mm)</th>
<th>&quot;SG 300 N&quot; Number of layers &amp; Arrangement</th>
<th>Fire resistance classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>(A) (B)</td>
<td>10 up to 55</td>
<td>1 any</td>
<td>EI 90-V-X-F-W 10 up to 55 EI 90-H-X-F-W 10 up to 55</td>
</tr>
<tr>
<td>(A) (B)</td>
<td>10 up to 55</td>
<td>2 Layers side by side without distance, arrangement within the joint optional</td>
<td>EI 120-V-X-F-W 10 up to 55 EI 120-H-X-F-W 10 up to 55</td>
</tr>
<tr>
<td>(A) (B)</td>
<td>10 up to 27, 27 up to 55</td>
<td>4, 3</td>
<td>EI 180-V-X-F-W 10 up to 55 EI 180-H-X-F-W 10 up to 55</td>
</tr>
</tbody>
</table>

Overview of fire-resistant types for assembly in solid walls with a thickness of ≥ 100 mm and solid ceilings with a thickness of ≥ 150 mm and a raw density of ≥ 700 kg/m³.

Chart 3.1

<table>
<thead>
<tr>
<th>Assembly type</th>
<th>Joint width (mm)</th>
<th>&quot;SG 300 N&quot; Number of layers &amp; Arrangement</th>
<th>Fire resistance classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>(A) (C)</td>
<td>10 up to 50</td>
<td>2 1 layer each on both sides, distance a ≥ 25 mm to the component's outer edge</td>
<td>EI 90-H-M 65-F-W 10 up to 50</td>
</tr>
</tbody>
</table>

Overview of fire-resistant types for assembly in solid walls with a thickness of ≥ 150 mm and solid ceilings with a raw density of ≥ 2400 kg/m³ ± 20 %.

Chart 3.2
Assembly instructions

The surface of the joint rope may be accomplished optionally with permanently elastic sealing, coating or lining. The manufacturer's specifications must be observed. It is permitted to glue in Rope SG 300 N with Litaflex Glue 800.

Please read these notes carefully before starting the assembly!

ASSEMBLY INSTRUCTIONS

Preparation
Remove formwork burrs, concrete splashes, expanding foams or the like. Clean the joint with a wire brush. If jointing compound is required, apply primer coat for elastic joint compounds.

Positioning
Position the joint rope.

Insertion
Insert and condense the layer in horizontal and vertical direction.

Further layers
Where required, insert and condense the second, third or fourth layer.

Closing
Close the joint with jointing compound (optional).

Butt joint
For single-layer arrangement, the butted ropes adjoined must overlap by 10 cm. For multi-layer arrangement, joints must be staggered by 50 cm. Joints in multi-layer arrangement may be butt-joint.

Arrangement of the joint rope (see also Charts 1.1, 2.1, 2.2 and 2.3)
For single-layer design, arrangement can be done randomly within the joint (possible is the side towards the fire or away from it). For multi-layer design, arrangement can also be done randomly within the joint. Layers are to be positioned side by side without distance. For joints with vertical shear stress, one layer rope each with a minimum distance of 25 mm to the component’s outer edge must be inserted (= double-layer type for EI 90).
DATA SHEET
JOINT ROPE SG 300 N

European Technical Evaluation no. 14/0059 of 17 March 2015 issued by the Deutsches Institut für Bautechnik, the German Institute for Civil Engineering, Berlin

 parachord: SG 300 N

Dimensions: 20 mm
Roll length: 20 m
Joint width: 12-17 mm
corrosion resistant DIN 4102-A1
flexible
endless

Preparing the joint:
removal of formwork edge, concrete spatters, mounting foams, etc. cleaning with wire brush. If necessary, primer coat for elastic sealing compound.

Mounting:
Work protection
The parachord contains synthetic fibers. In handling, excessive dust development should be avoided.

For cutting and trims sputter, sharp, toothless tools are to be used.

The statements, specifications and data of our information are made to the best of our knowledge and belief. If possible, they were approved by test certificates and determined by tests. In case of doubt, we recommend to carry out tests that are adapted to the local circumstances. Apart from that, our staff of the areas sales and development is available for advice at any time.

For further information such as forms, tender specifications and reference lists, please visit www.rex-industrie-produkte.de or scan the QR code with your smartphone.

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We reserve the right of technical changes, typing and setting errors and colour deviations due to technical reasons.