The construction of pipelines for water supply and waste-water disposal also involves crossing railway lines. However, the underground pipelines are subjected to considerable static stress due to the track operation above, which is characterised by intense and persistent vibrational loads.

Increasing traffic volumes also lead to even more load. Flowtite GRP pipes, however, are ideally suited for the crossing of railway lines and offer a comprehensive and certified product programme in accordance with the specifications of the German Federal Railway Authority (EBA).

To determine the fatigue strength stability of Flowtite GRP pipes, pipe segments were tested from 2012 – 2016 in a test recognised by the German Institute for Building Technology (DIBt), an accredited monitoring and certification body for construction products. The test measured the sustainable load cycle count until the sample fractured depending on the test load. The evaluation of the fatigue strengths up to 100 million load cycles ($1 \times 10^8$).
showed that Flowtite GRP pipes from DN 300 to DN 2400 are ideally suited to the crossing of railway lines and provide maximum safety.

**The German Federal Railway Authority (EBA) granted Flowtite GRP pipes approval in the pressure area of railway traffic loads.**

---

**SCOPE OF APPLICATION OF FLOWTITE PIPES WITH EBA APPROVAL**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>DN 300 – DN 2400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Class</td>
<td>PN 1 – PN 12</td>
</tr>
<tr>
<td>Wall Thickness</td>
<td>7 mm – 60 mm</td>
</tr>
</tbody>
</table>

---

**AREAS OF APPLICATION OF FLOWTITE PIPES WITH EBA APPROVAL**

- Supply
- Disposal
- Open trench construction
- Jacking
- Relining

---

**FLOWTITE – PROPERTIES**

Flowtite GRP pipes have excellent material properties and can withstand high static and dynamic loads. They are corrosion-resistant, high-strength and elastic.

- With our Flowtite GRP pipes we offer complete solutions from a single source
- Now also usable under railway traffic loads and under areas with high dynamic and static loads
- High flexibility of the pipes
- High-pressure cleaning resistant
- Excellent hydraulic properties
- Corrosion-resistant
- Easy handling due to low weight
- Fast installation due to large standard lengths
- Long lifetime

---

_Supplied by:_

Amiantit Service GmbH
Am Fuchsloch 19
04720 Döbeln
Germany
Tel.: + 49 3431 71 82 0
Fax: + 49 3431 70 23 24
info@amiantit.eu
www.amiantit.eu

Amiantit Germany GmbH
Am Fuchsloch 19
04720 Döbeln
Germany
Tel.: + 49 3431 71 82 0
Fax: + 49 3431 70 23 24
info-de@amiantit.eu
www.amiantit.eu