

FloorBridge® ST 20/30

Carbon composite floor joint profile with central sine curve | for horizontal joint movements



Product characteristics

- metal free
- multiple grinding
- highly loadable
- overcoatable and free in design
- significant reduction of maintenance costs of industrial trucks
- tight coating connection possible
- easy installation
- Complies with serviceability class R4 according to EN 1504-3 (repair principles 3.1, 3.2, 7.1, 7.2)
- can be driven over with low vibration

Corresponds to EU vibration guideline 2002/44/EG (Germany: noise and vibration work safety regulation; Austria: VOLV – regulation noise and vibration)

Technical specification

Width of joint profile	approx. 250 mm
Length of joint profile	approx. 1.200 mm installed (1.195 mm net)
Thickness of joint profile	approx. 20 mm
Joint width in substrate	max. 30 mm
Contamination seal	approx. 10 mm (depending on the version)
Total horizontal joint movement	25 mm (-5/+20 mm)
Operating temperature range	-25°C to a maximum of +40°C (if lower or higher temperatures consult the material manufacturer)
Grindable	max. 2 mm
Compressive strength	80 N/mm ² (ONR 23303)
Load	corresponds to forklift class FL6 - axle load 170 kN (DIN EN 1991-1-1)
Fire classification	Bfl-s1 (hardly inflammable)
Colour	grey
Packaging (euro-pallet)	84 pcs. à 1,20 m (100,8 m)

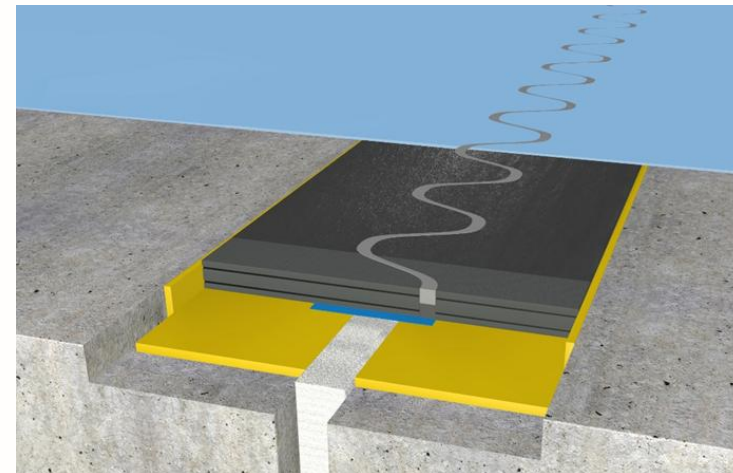
The installation must be carried out by trained specialists!

Fields of application

- Warehouses and high-bay warehouses
- Industrial buildings
- Car manufacturers and supplier companies
- Production plants
- Shopping centres & supermarkets
- Hospitals and laboratories
- Pharmaceutical industry (production and distribution)
- Food industry (production and distribution)

Explanation

The joint movements of the components must be calculated by a specialist (structural engineer / planner) and made available to all parties involved. The load specifications do not apply to the floating installation variant.



Joint movement (examples)

Joint width in concrete subsurface	Positive joint movement	Negative joint movement
10 mm	+ 15 mm	- 5 mm
15 mm	+ 12 mm	- 5 mm
20 mm	+ 10 mm	- 5 mm

Note

Joint width in concrete subsurface indicates the width of the gap in the concrete below FloorBridge® joint profile during placing.

Positive joint movement is the amount the gap can open, compared to its original width during placing of FloorBridge® joint profile.

Negative joint movement is the amount the gap can close, compared to its original width during placing of FloorBridge® joint profile.

Do not exceed the maximum positive joint movement capacity, otherwise the teeth of FloorBridge® joint profile become unsupported below and may break.

Substrate quality, preparation and processing

Please refer to the product data sheet of the composite adhesive FloorBridge® series used in the installation and/or the FloorBridge® Installation tutorial.

Notes on application / limitations

No vertical movements may occur in the concrete slabs at the joint area. If there is a vertical movement of the concrete slabs in the joint area, this must be repaired before the joint repair by suitable measures such as anchoring, pinning, etc. or ground solidification (cement paste injections or the like); this is absolutely necessary for the stability of the concrete slab!

Settlement of the ground or adhesive in the joint area can cause cracks in the FloorBridge® joint profile. These cracks do not constitute a defect since they do not affect the viability and usability.

Depending on the joint movement, the dirt brake (grout) can swell out, sink or split.

However, this has no effect on the technical usability of the FloorBridge® joint profile since the dirt brake is intended to reduce the contamination.

Joint sealants in parking garages or industrial floor areas are subject to increased wear and therefore are considered as "maintenance joints". This maintenance joint serves for better cleanability of the joint profile and is not permanently impermeable. The dirt brake should be periodically checked, cleaned and, if necessary, renewed.

The dirt brake itself must not be sealed/coated. If waterproofing is required, a sealing tape from the FloorBridge® series must be installed under the FloorBridge® joint profile.

As the FloorBridge® joint profile changes colour when exposed to UV-radiation, it must be sealed with a suitable protective coating, if colour stability is required. In the event of very high temperature changes, cracking in the butt joint (adhesive) may occur in the abutting area of the individual profiles. This does not affect the trafficability and tightness of the system and therefore does not affect the usability. FloorBridge® joint profiles may be crossed at a maximum speed of <30 km / h.

If the joint profile has been ground too deep, FloorBridge® International GmbH will not be held liable. No liability is assumed for the case of non-intended use or installation.

Attention!

Passive transponders are processed in this product for product tracing. These can cause malfunctions in driverless transport systems (self-propelled forklifts). If necessary, consult the manufacturer - depending on the application/requirement, the profiles can also be obtained without transponders.

Storage conditions

The FloorBridge® joint profile must be stored horizontally and fully supported indoors at temperatures between +5°C and +35°C.

Value Base

All technical data stated in this product data sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Ecology, health and safety information (reach)

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 REACH). It does not contain substances that are released from the product during normal use. A safety data sheet following article 31 of the same regulation is not needed to bring the product onto the market, to transport or use it. For safe use follow the instructions given in this product data sheet.

Based on our current knowledge, this product does not contain any SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency ECHA in concentrations above 0.1% (w/w).

Legal notes

The information, and in particular, the recommendations relating to the application and end-use of FloorBridge® products, are given in good faith based on the current knowledge and experience of FloorBridge® International GmbH about the products, and apply if properly stored, handled and under normal conditions in accordance with FloorBridge® International GmbH recommendations.

In practice, the differences in materials, substrates and deviating working conditions are so substantial, that FloorBridge® International GmbH shall neither accept any warranty nor liability for a particular merchantability or suitability for a particular purpose, neither derived from this information nor from a written recommendation or any other advice offered. The user of the product must verify the product's suitability for the intended purpose of use.

FloorBridge® International GmbH reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to final confirmation and subject to our current terms and conditions regarding sales and deliveries.

Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of FloorBridge® International GmbH.