

Technical Information

Installation of Fabric Expansion Joints

RAL-GZ 719

TI-010 Rev. 1 – 05/08 page 1 of 6

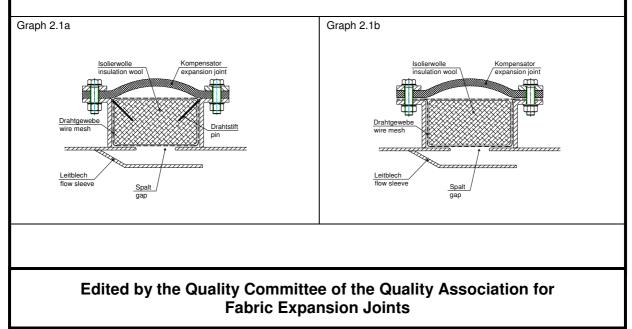
1. General

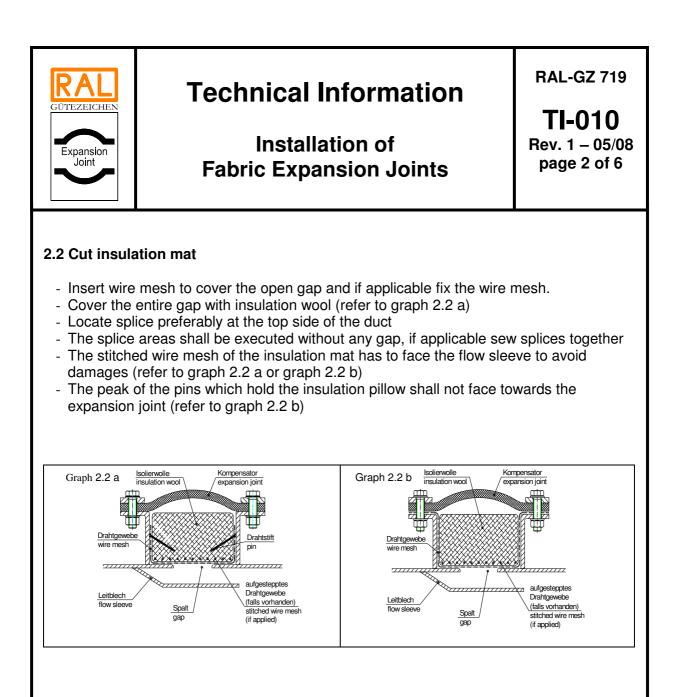
- The installation shall be executed by safety-related instructed and experienced staff/personnel, required local- and project related safety arrangements have to be respected and coordinated with the site manager if applicable.
- The transport of the expansion joints to the installation location has to be carried out with reasonable care to avoid damages, the TI-008 has to be respected
- The planning of the installation according to TI-009 need to be finished
- The following steps for installation include the minimum standards for the installation process
 - Primarily respect the equipment manufacturers specific instructions
- Read this entire instruction prior starting the installation process and particularly refer to top "7. Warnings"

2. Internal Insulation (if applicable)

2.1 Manufactured pillow

- Insert insulation pillow according to manufacturers instruction, note marking "inside" and "outside" (refer to graph 2.1 a)
- Locate the splice at the top side of the duct
- The splice areas shall be executed without any gap, if applicable sew splices together
- The peak of the pins which hold the insulation pillow shall not face towards the expansion joint (refer to graph 2.1 b)

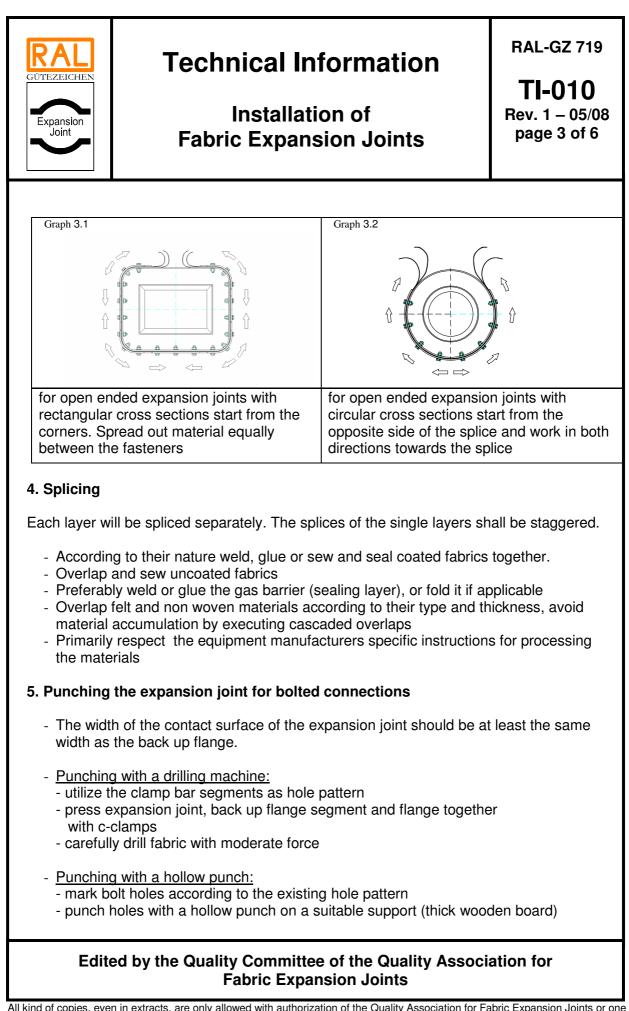


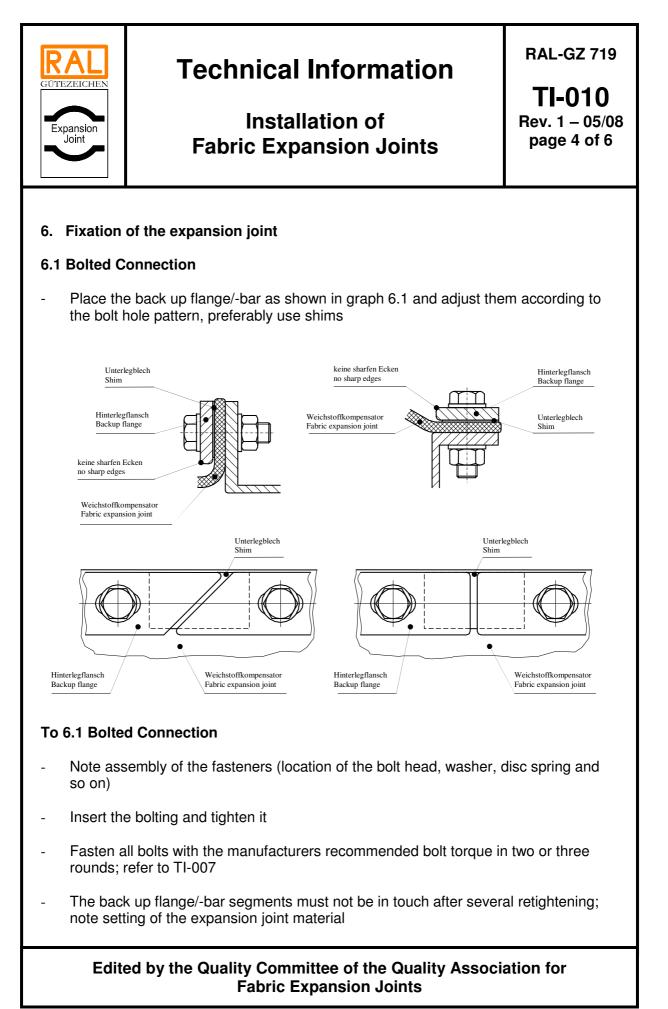


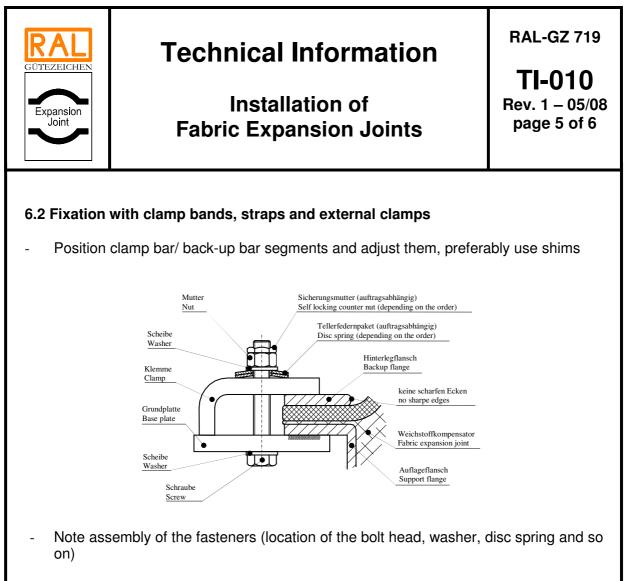
3. Expansion joint orientation and fixation

- Spread out the expansion joint, note marking "inside" and "outside", align and if applicable pre-compress expansion joint
- Possibly respect allocation of different interface dimensions
- For expansion joints with rectangular cross sections locate the corners respectively the corner radius.
- Note the location of the field splice at areas with proper access, refer to graph 3.a and graph 3.b (for horizontal orientated ducts possibly on the top side).
- Fix the expansion joint temporarily with suitable appliances e.g. c-clamps. The splicing area of endless joints shall not be fixed.

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- Insert the bolting and tighten it
- Fasten all bolts with the manufacturers recommended bolt torque in two or three rounds; (NOTE: the recommended bolt load of TI-007 is not valid for external clamps!)
- The clamp bar/back-up bar segments must not be in touch after the entire retightening; note setting of the expansion joint material

6.3 Clamp bands, straps and external clamps

- Position and align clamp bands, straps and external clamps
- Fasten all bolts on circumference in two or three rounds; (NOTE: the recommended bolt load of TI-007 is not valid for clamp bands, straps and external clamps!)
- The segments of the clamp bands, straps and external clamps must not be in touch after the entire retightening, note setting of the expansion joint material

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TI-010 Rev. 1 – 05/08 page 6 of 6

7. Warnings

The installation instruction may not describe all single steps precisely. To grant proper function it is strongly recommended to use preferably the manufacturer's installation materials.

The manufacturer's supervisor should be ordered for the installation work, specifically for the joining of the splice.

Attention: There is a high risk of danger in case of installations made by others (and not the manufacturer)!

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