



Instructions for the installation of pre-assembled tension rod system type 860

1. Area of application

These instructions apply to PFEIFER-Tension Rod System made of non-alloyed steel in compliance with “General Building Authority Approval Z-14.4-433“.

2. Checking before installation

All tension rods must be checked thoroughly for any transport damage before installation.

Particular attention must be paid to the following points in this respect:

- Damage to corrosion protection
- Damage to thread
- Damage to components

Damaged corrosion protection has to be repaired immediately. Damages on galvanized surfaces have to be treated with zinc dust paint. If necessary an existing additional coating can be repaired afterwards.

3. Preparation for installation

Any thread on connections must be cleaned thoroughly and greased prior to installation.

Damaged or dirty threads must not be assembled because this could lead to the tension rods unfit for use.

4. Delivery and installation

The PFEIFER-Tension Rod System Type 860 is pre-assembled so as to facilitate installation (see Fig. 1).

For installation the length of the tension rod system has to be adjusted to the system length by turning the Tension Rod and by aligning it such that the pin can be inserted without bending (see Fig. 2). Driving in the pin with a hammer is forbidden since it can cause damage to the fork connector!

The tension rod system is adjusted with a spanner. If used correctly, adjustable spanners and screw wrenches (monkey wrenches) can also be practical. Special-design spanners are available on request. The locking nuts are then screwed back towards the Fork Connector until they are locked. A strap wrench can be used to tighten the locking nut so as to avoid damaging the surface (see Fig. 3).

In the scope of building supervision the minimal thread reach has to be checked for each fixing insert by appropriate measures.

Checks have to be documented and recorded by the responsible head of installation or chief erector. The minimal thread reach is achieved when the rod thread is completely covered by the locking nut. If threads with a special length are used, appropriate measures have to be taken to ensure that the minimal thread reach is achieved.

If the galvanized surface is damaged during tightening, the damaged spots have to be repaired professionally so as to guarantee the necessary corrosion protection.

If the system length exceeds 10 m, the tension rod system has to be supported and stabilized with at least two round slings since otherwise the entire system is susceptible to buckling.

Fig. 1

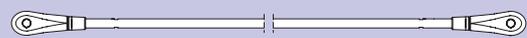


Fig. 2

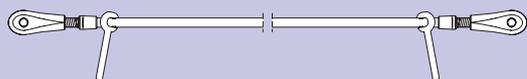


Fig. 3

