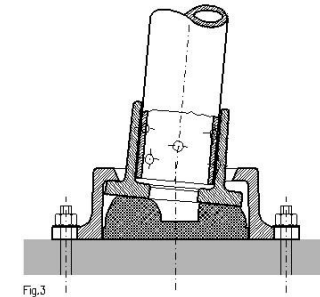
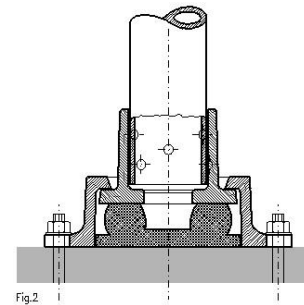
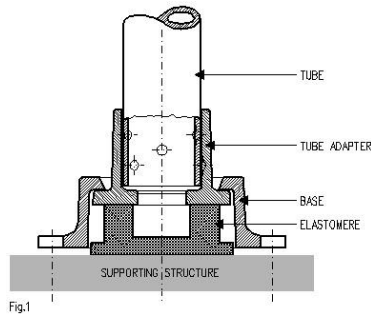


Assembling instructions

1. Warning: the assembly should be carried out by qualified persons because any incorrect assembly and/or anchoring can lead to injuries and material damage.
2. Fig. 1 shows the components and the right position before drilling the holes and tightening the anchor bolts (base – elastomere - tube adaptor/tube).
3. Fig. 2 shows the inside situation after tightening the anchor bolts, there is now a pre-tension on the elastomeric element, system ready for use.
4. Fig. 3 shows the inside situation when a force is applied.

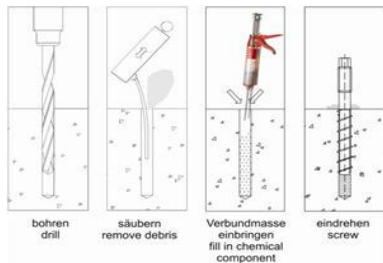


5. Anchoring:

Anchors for base Type 1, 2 and 3. Recommended anchors. Collision tests were performed with “Concrete-screws” of the “TOGE” brand, type: Toge TSM B 14 M16×165mm, drill diam. 14 mm, depth 145 mm. For “Liquid-proof” Anchoring a 2-component chemical resin should be utilized. In case of damaged/cracked concrete, chemical resin must be utilized. We recommend the Vinylester 2 component resin, “CHEMOFAST” type CF-T300 V from “TOGE”, because of the low viscosity. When extremely heavy collisions and/or an inferior concrete quality can be expected, the “TOGE” anchor type TSM B 16 M18×195 mm, drill diam. 16mm, depth 155mm can also be utilized.

Consult: www.toge-road.de and click on “Anchors” for more information. Attention: when drilling the hole, always drill at least one time the drill diameter deeper, in order to leave room for the concrete dust caused by the “thread cutting” action of the TOGE Screw-bolt.

Important note: when using other anchors, use at least M16 with quality 8.8 (not less), do not use polyester 2 comp. chemical resin, but min. Vinylester or Epoxy-Vinylester.



When installing Softstop bollards outdoors, please take into account that the KTL coated components of the base and adaptor may gradually become dull and grey as a result of environmental influences such as UV rays. This effect can be avoided by applying/spraying black glossy automotive paint or clear varnish on these components.

6. Fixing the tube in the tube adaptor: always use “Steel Hexagon Socket Set Screws with CUP POINT” M12x12/M16x16 DIN915/916 High Grade Hardness 45 HRC – zinc plated + Geomet®
7. Placing the plastic cap on the tube and hammering around with a wooden mallet. If necessary remove one or more lower support rings from the outside of the cap with a sharp knife.

