

Questionnaire on the Structural Sizing of Pipes

Fax +49 (0) 67 52 14-741

Your details

Project _____

Name of contractor _____

Name of contact _____

Street _____

Postcode/town _____

Telephone no. _____

E-Mail _____

Pipe

- ☐ MP Multi-purpose Pipe, 1/3 slotted DN/OD _____
- ☐ LP Partial Drainage Pipe, 2/3 slotted _____
- ☐ TP Full Drainage Pipe, slotted all round _____
- ☐ UP Multi-purpose Pipe, solid-wall pipe without perforation _____

Laying conditions

- ☐ Embankment conditions (trench width $\geq 4 \times DA$)
- ☐ Trench conditions
- Angle of slope β _____
- Trench width at pipe crown height b _____
- Cover height h _____
- Cover fill condition ① Please mark it with a cross
- Bedding condition ② Please mark it with a cross

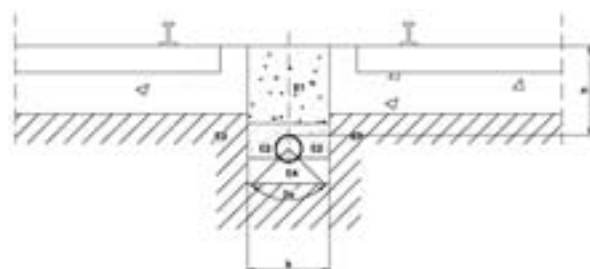
Groundwater

- ☐ None
- ☐ _____ [mm] groundwater above pipe bottom

Live loads

- next to the shaft: ☐ UIC 71 multi-track
- ☐ UIC 71 single-track
- on the shaft: ☐ SLW 60
- ☐ SLW 30
- ☐ Lkw 12
- ☐ Please specify _____

Soil characteristics



- E1 _____ D_{Pr} _____
- E2 _____ D_{Pr} _____
- E3 _____ D_{Pr} _____
- E4 _____ D_{Pr} _____

- G1: non-cohesive soils (GE, GW, GI, SE, SW, SI)
G2: slightly cohesive soils (GU, GT, SU, ST)
G3: cohesive mixed soils, silt (GU*, GT*, SU*, ST*, UL, UM)
G4: cohesive soils (TL, TM, TA, OU, OT, OH, OK, UA)

Place, date _____

Project manager _____

Signature

- ①
- ☐ **A1:** Trench fill compacted against the natural soil in layers (without proof of degree of compaction); also applies to horizontal sheeting (lagging).
- ☐ **A2:** Vertical sheeting for the trench with trench piling which is only placed after filling. Bracing boards or devices which are removed step by step as the trench is filled. Uncompacted trench fill. Washing in of fill (only suitable for soils in group G1).
- ☐ **A3:** Vertical sheeting for the trench with sheet pile walls, light sheet pile walls, planking, bracing boarding or devices which are only removed after filling.
- ☐ **A4:** Trench fill compacted against the natural soil in layers with proof of degree of compaction; also applies to horizontal sheeting (lagging). The A4 cover fill condition does not apply to soils in group G4.
- ②
- ☐ **B1:** Bedding-in compacted against the natural soil in layers or in the embankment fill in layers (without proof of degree of compaction); also applies to horizontal sheeting (lagging).
- ☐ **B2:** Vertical sheeting within the pipe zone with trench piling which extends to the floor of the trench and is only placed after filling and compaction. Bracing boards or devices, provided compaction of the soil takes place after the sheeting is placed.
- ☐ **B3:** Vertical sheeting within the pipe zone with sheet pile walls or light sheet pile walls and compaction against the sheeting, which extends below the floor of the trench. Vertical sheeting with planking, bracing boarding or devices which are only removed from the pipe zone after filling and compaction; cannot be covered by a reliable computational model.
- ☐ **B4:** Bedding-in compacted against the natural soil in layers or in the embankment fill in layers, with proof of the degree of compaction; the B4 bedding condition does not apply to soils in group G4.