6.1 Object questionnaire for statical calculation according to ATV-DVWK-A 127 (Page 1 of 3)

Project: _____

Client: _____

Construction company: _____ Contact person: _____

Street: _____ Postcode: _____ City: _____

Phone: _____ Fax: _____

Pipe details

Type: ☐ egefuse® sewer pipe

Material: ☐ PE 80

Outer diameter OD: _____ mm Wall thickness s: _____ mm

Loads

Covering over crest of the pipe:

Maximum: _____ mm Minimum: _____ mm

Groundwater level over pipe base: ☐ existent ☐ inexistent

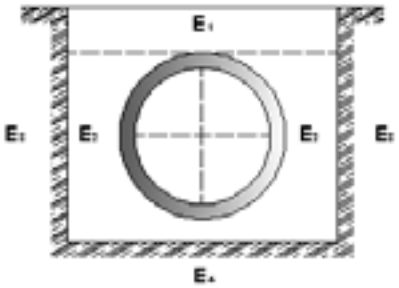
Maximum: _____ mm Minimum: _____ mm

Traffic loads: ☐ none ☐ SLW 60 ☐ SLW 30 ☐ truck load 12
☐ single track railway ☐ multiple track railway

Additional area load: _____ N/mm²

Other information: _____

Soil



Zone	E1	E2	E3	E4
	☐ G1 ☐ G2 ☐ G3 ☐ G4	☐ G1 ☐ G2 ☐ G3 ☐ G4	☐ G1 ☐ G2 ☐ G3 ☐ G4	☐ G1 ☐ G2 ☐ G3 ☐ G4
Proctor density [%]				
Young's modulus [N/mm²]				

E1: Backfill
E2: Embedment
E3: Soil layer next to pipe
E4: Soil layer under trench
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)

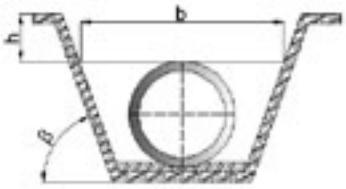
6.1 Object questionnaire for statical calculation according to ATV-DVWK-A 127 (Page 2 of 3)

Installation conditions

☐ **Trench**

Trench width b: _____ mm

Slope angle β: _____ °

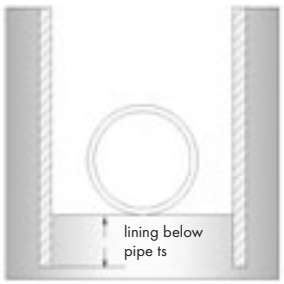


Covering and embedding conditions

Cover	Embedding
☐ A1	☐ B1
☐ A2	☐ B2*
☐ A3	☐ B3*
☐ A4	☐ B4

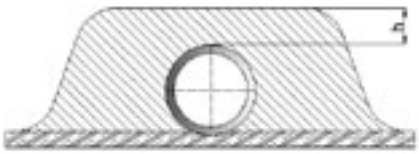
** When embedding conditions are B2 and B3 please specify lining below pipe (ts):*

_____ mm



☐ **Embankment**

Covering height (h): _____ mm



Storage

Bedding mode: ☐ compact ☐ loose
(compact bedding for PE-pipes inadvisable)

Bedding angle 2α: ☐ 60° ☐ 90° ☐ 120° ☐ 180°

6.1 Object questionnaire for statical calculation according to ATV-DVWK-A 127 (Page 3 of 3)

Explanation to the questionaire

Covering conditions

A1: In layers against the grown soil compressed trench filling (without compression ratio confirmation).

A2: Vertical fitment of the pipe trench with steel sheet piles which will not drawn until filling. Trench-lining plate or equipment for gradual removing during trench filling. Uncompacted trench filling.
Flushing in of the filling (only applicable for soil of group G1).

A3: Vertical fitment of the pipe trench with sheet piles, bulk heads, timber planks, trench-lining plates or equipment, which will not drawn until filling.

A4: In layers against the grown soil compressed trench filling with confirmation of the required compression ratio according to ZTVE-StB; Filling term A4 is not applicable for soil of group G4.

Embedding conditions

B1: In layers against the grown soil rather in layers in compresses filling of trench embankment (without compression ratio confirmation).

B2: Vertical fitment within the embedment with steel sheet piles which will reach till the trench bottom and which will not drawn until filling.
Trench-lining plates and equipment under the assumption that the soil compression not occur before drawing of the fitment.

B3: Vertical fitment within the embedment with sheet piles or bulk heads and compression towards the fitment which reach till the trench bottom.

B4: In layers against the grown soil rather in layers in the trench filling compressed embedding with confirmation of the compression ratio according to ZTVE-StB. Filling term B4 is not applicable for soil of group G4.