

Questionnaire on the Structural Sizing of Shaft Structures Based on DWA A-127

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Your details

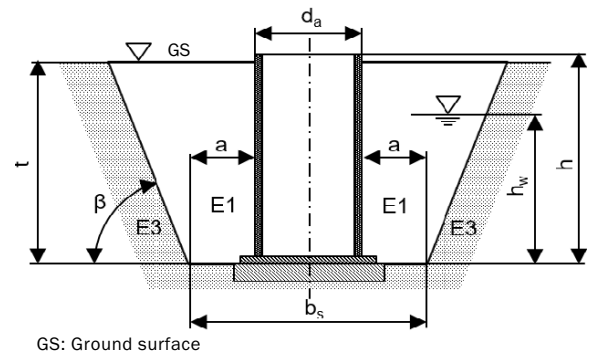
Project: _____
 Company: _____ Contact person: _____
 Street: _____ Town/ZIP: _____
 Phone no.: _____ E-mail: _____

Shaft

Outside diameter: d_a _____ [mm] Shaft jacket material: _____
 Inside diameter: d_i _____ [mm] Service temperature: _____ [°C]
 Wall thickness: e _____ [mm] Height of shaft part: h _____ [mm]

Laying conditions

Placement depth to GS: t _____ [mm]
 Pit diameter: b_s _____ [mm]
 Working space: a _____ [mm]
 Angle of slope: β _____ [°]
 Spec. weight of soil: _____ [kN/m³]



Soil characteristics

	Soil group	Proctor density	Modulus of deformation
Pipe zone E1	G _____	D_{Pr} _____ [%]	E_{v2} : _____ [N/mm ²]
In situ soil E3	G _____	D_{Pr} _____ [%]	E_{v3} : _____ [N/mm ²]

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)

DIN
18196

Live loads

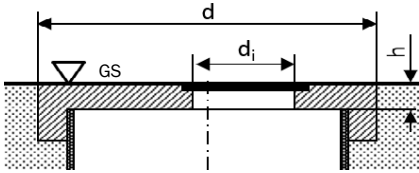
Shaft not fit for traffic or Shaft fit for traffic
 Trucks 12t Trucks 30t Trucks 60t LM 1 No live load
 Comment: _____

Groundwater above shaft bottom

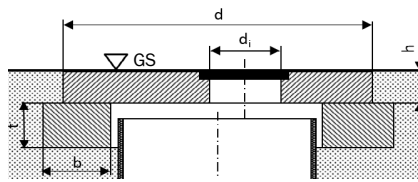
Non-existent
 Existent with min. _____ [mm] max. _____ [mm] groundwater h_w above shaft bottom

Manhole cover

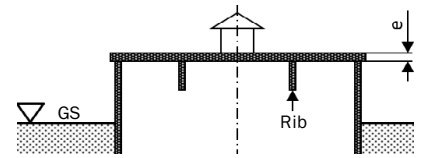
Surface-mounted road cover



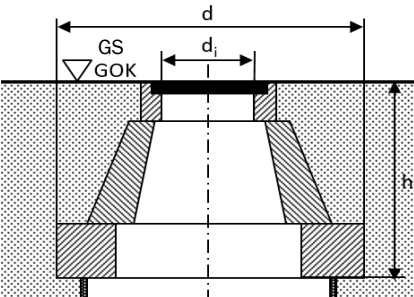
Separately supported road cover



Flat roof



Standard concrete cone



Cover height: h _____ [mm]

Diameter: d _____ [mm]

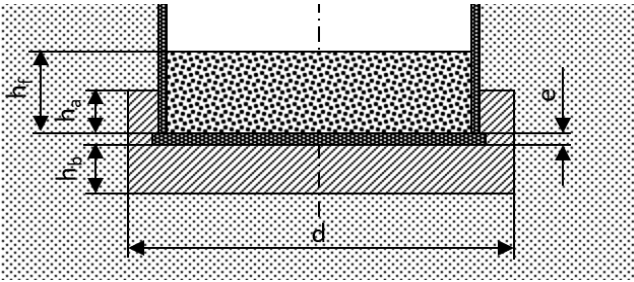
Access diameter: d_i _____ [mm]

Cover thickness: e _____ [mm]

Width of ring foundation: b _____ [mm]

Depth of ring foundation: t _____ [mm]

Shaft bottom



Diameter of foundation: d _____ [mm]

Height of foundation: h_b _____ [mm]

Thickness of bottom sheet: e _____ [mm]

Height of concrete edging: h_a _____ [mm]

Height of concrete filling: h_f _____ [mm]

Please enclose any other information required for calculation separately!

Place, date: _____

Signature: _____