Data sheet for structural analysis

For case of application buried manholes ; calculation based on DWA-A 127

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project

company

Contact person

street

phone/Fax:

postcode

signature:

city

Date/Stamp

manhole:

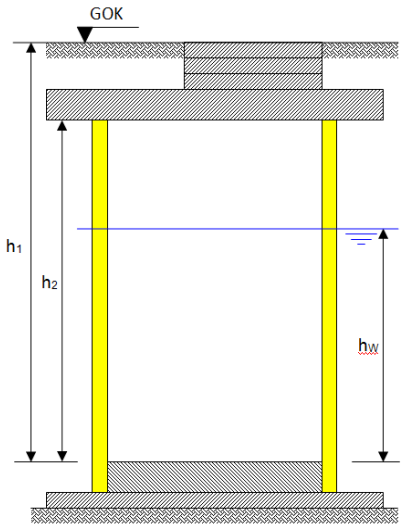
Manhole diameter DN		manhole for sewerage; open channel	☐
		manhole with closed channel	☐
Shaft pipe material	GRP (GF-UP)	pumping station: wet installed pump	☐
Shaft nominal stiffness SN		pumping station: dry installed pump	☐
		installation in water protected area's	☐

Free input

specification of traffiv loads:

Traffic loads	street	No traffic	☐	HCL 60	☐	HCL 30	☐	HGV 12 ☐
	Railroad			LM71 one track	☐			LM71 two tracks ☐
Additional loads:	e.g. surface loads (N/mm²)							

installation dimensions of the manhole:



Installation depth	h1		mm
Pipe length	h2		mm
Ground water heigth min.	hw min		mm
Ground water heigth max.	hw max		mm

types of native soil acc. ATV-A 127; DIN 18196:

		native soil	bedding
G1	non cohesive soils (gravel, sand) (GE, GW, GI, SE, SW, SI)	☐	☐
G2	slightly cohesive soils (GU, GT, SU, ST)	☐	☐
G3	cohesive mixed soils, silt (GŪ, GŤ, SŪ, SŤ, UL, UM)	☐	☐
G4	cohesive soils, except silts (TL, TM, TA, OU, OT, OH, UA)	☐	☐
	other soils		
	proctor density D_{PR} in % (85-110)		
	known E-modulus in N/mm² (1-200)		

Information for Manhole construction:

Excavation slope angle ß ☐ 45° ☐ 60° ☐ 90°

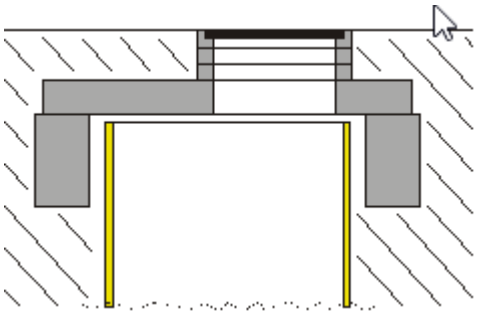
Free space between manhole and sheeting / native soil _____ mm

Coverplate construction details:

☐ Acc. To drawings of the manhole supplier

☐ Other construction forms (please absolutly add drawing)

☐ Cover plate on separate foundation (load separation)



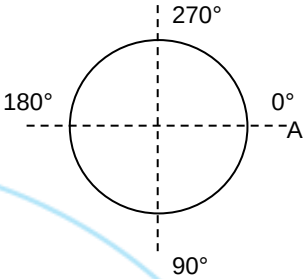
Base plate construction details:

☐ Acc. To drawings of the manhole manufacturer

☐ Other construction forms (please absolutly add drawing)

☐ Manhole with flotation control

Installations at the shaft pipe:



	1	2	3	4
	☐ nozzle ☐ opening	☐ nozzle ☐ opening	☐ nozzle ☐ opening	☐ nozzle ☐ opening
position	_____ °	_____ °	_____ °	_____ °
material	_____	_____	_____	_____
nominal diameter	_____ mm	_____ mm	_____ mm	_____ mm
wall thickness	_____ mm	_____ mm	_____ mm	_____ mm

Installation Equipment:

Weight of installed equipment at shaft pipe _____ KN

Weight of installed equipment at the manhole foundation _____ KN