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Pipes designed for generations

FLOWTITE HOBAS®

Input Data for structural analysis

of applications in renovation with Lining-, Sliplining with GRP Pipes; calculation acc. DWA-A 143, Teil 2

please send to:

Amiblu Germany GmbH
Am Fuchsloch 19
D-04720 Döbeln
T +49 3431 71820
germany@amiblu.com

Amiblu Germany GmbH
Gewerbepark 1
D-17039 Trollenhagen
T +49 395 45280
germany@amiblu.com

Amiblu Holding GmbH
Sterneckstrasse 19
A-9020 Klagenfurt
T +43 463 482424
austria@amiblu.com

Amiblu Switzerland AG
Turmstrasse 28
CH-6312 Steinhausen
T +41 79 8897 970
switzerland@amiblu.com

project name

company | contact person

street | phone/fax

postcode | mail

city | date/stamp/signature

Details to the geometry old channel (circular shape, egg shape, other shape)

inner diameter old pipe ____ mm

minimal cross section old pipe ____ mm (for pipe design)

profile shape ☐ circular ☐ egg ☐ others ____

material ____

local predeformation ____ %

section length ____ m

pipe slope ____ %

Details to the required GRP pipe; spacers; plastic skids

pipe material: GRP (UP-GF)

nominal diameter DN ____

pressure class PN ____

nominal stiffness SN ____

sewer pipe ☐

pressure sewer pipe ☐

pressure pipe ☐

potable water pipe ☐

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Spacer planned ☐ yes ☐ no others ☐

axial gap of spacer grid _____ m _____

short information to the planned installation (Pipe support, pipe fixation, construction details, etc.) _____

details to the loads; characteristic values of soil

☐ **old-pipe condition I (ARZ 1)** Old pipe structurally load-bearing (e.g. leakage in the pipe connection or wall; no cracks, excluded hair-cracks)

☐ **old-pipe condition II (ARZ II)** Old pipe-ground system structurally load-bearing (e.g. longitudinal scratches with low pipe deformation with checked active lateral bedding. Confirmed e.g. by long time observation and / or dynamic probing of soil resistance)

☐ **old-pipe condition III (ARZ III)** pipe-ground system long-early only not more load-bearing; clear distortions; towards condition II the liner is also claimed by earth loads and traffic loads

Ground water over pipe invert* max $h_{w,So}$ _____ m

* acc. DWA A-143-2 OD+100mm; however at least 1500mm above pipe-invert

Only for old-pipe condition ARZ III:

cover depth above the pipe crown from _____ m to _____ m

native soil
- ☐ G1, non-cohesive soils (gravel, sand)
- ☐ G2, slightly cohesive soils
- ☐ G3, cohesive mixed soils, silt
- ☐ G4, cohesive soils, except silts

proctor density native soil _____ % or modulus of deformation native soil _____ N/mm²

traffic load ☐ no traffic load

☐ road HCL/LM1

☐ railway UIC/LM71 ☐ single track ☐ multiple track

☐ aircraft load DAC/BFZ

☐ others

General damage description of the old pipe, e.g. leaching at pipe invert, longitudinal cracks at pipe crown, circumferential cracks, broken shards, missing pipe pieces, other damages

Water filling in the relining pipe while grouting of the annular gap

No water filling ☐

partial charge of water filling ☐ Water depth middle of canal section m

Pipe completely filled with water ☐ Water height above pipe crown (upper section end) m

additional load inside the pipe ☐ Kg/m

specific weight of the grout material KN/m³

Example: Standard grout material 14-18 KN/m³ light grout material 8-14 KN/m³

Please provide technical data sheet of the planned grout material!

Grout level above pipe crown (lower section end m

multi-stage grouting ☐ yes ☐ no

Number of layers Pc.

Layer height m