installation protocol BRAWOLINER®

version: 04/2026

date

sheet

project

project no.	order no.	description

street / zip code / city

comments

client

customer	contact person	street / zip code / city

installation team

deployment manager	personnel	col. Vehicle

objekt

sewer pipe	material	number and location of inlets	pipe length [m]

dimension	bends	type of damage

accomplished

☐ TV preliminary inspection	☐ TV post-inspection	☐ HP cleaning
☐ calibration	☐ daytime cordoning off	☐ milling work

shaft

from shaft		shaft depth [m]		diameter [m]	
to shaft		gradient (height difference) [m]		groundwater level [m]	

material material specification by ☐ contractor ☐ contractor - site manager ☐ contractor - polisher

comments

liner

☐ BRAWOLINER® ☐ BRAWOLINER® 3D ☐ BRAWOLINER® XT ☐ BRAWOLINER® connection collar

☐ HT variante ☐ other

dimension batch no.

resin resin selection BRAWO®

☐ I ☐ III ☐ HT ☐ SRR

batch no. component A:

batch no. component B:

installation ☐ waste water-free ☐ precipitation ambient temperature [°C]

install with ☐ preliner ☐ calibration hose **liner end** ☐ open ☐ closed

impregnation ☐ on-site ☐ pre-impregnated

resin storage temperature [°C	target 5-30 °C		resin total target [kg]	
resin temperature before installation [°C]	target 13-15 °C		resin total [kg]	
mixing ratio [A:B]			actual resin quantity comp. A [kg]	
Mixing time [min]	target 3 min		actual resin quantity comp. A [kg]	
vacuum [bar]	target 0.5 bar, 5 min before and during		resin quantity [kg/m]	
roller spacing target [mm]			actual roller spacing [mm]	
inversion inversion pressure [bar]	target 0.2-0.3 bar		**curing conditions**	
inversion with water column [m]	target 2-3 m		☐ hot water ☐ hot steam ☐ cold	

processing time liner at 15 °C		**mixing start**	**installation time**
BRAWO® I	approx. 50 min		
BRAWO® III	approx. 3,5 h		
BRAWO® SRR	approx. 30 min		
BRAWO® HT	approx. 70 min (20 °C)		

	curing time target		
temperature	**at 70 °C**	**at 50 °C**	**at 10 °C**
BRAWO® I	☐ approx. 45 min	☐ approx. 100 min	☐ approx.13 h
BRAWO® III	☐ approx.140 min	☐ approx. 220 min	☐ approx. 24 h
BRAWO® SRR	☐	☐ approx. 30 min	☐ approx. 2 h (20°C)
BRAWO® HT	☐ approx. 80 min	☐ approx. 170 min	☐ approx.13 h(15°C)

curing time [actual]		actual curing temperature [°C]	
curing pressure [bar]	target 0.3-0.4 bar	curing by water column [m]	target 3-4 m

sketch and comments