



## **Input Data sheet for structural analysis**

For case of application jacking process; calculation acc. DWA-A 161

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	Text input.								
	project name	\							
	Text input.		Text input.						
	company	\							
	Text input.		Text input.						
	street	\	phone/fax						
	Text input.			Text input.					
	postcode		$\overline{}$	mail					
	Text input.		Text input.						
<u>c</u>	city letails to the jac	king pipe:		date/stamp	o/signature				
				\					
p	ipe material	GRP (UP-GF)	pre	essure class	PN <sub>Te</sub>	xt input.		bar	
0	uter diameter OD	Text input.	mm wa	n wall thickness e		xt input.		mm	
pipe unit length I Text input.			m jacking force plan.			Text input.			
details to the jacking section:									
jacking length compl. Text input.			m longest single jacking section Text input.					m	
jacking route  straight			one curve several curves				/es		
curve radius curve 1 Text input.		m curv	e 2 Text	input. m	curve 3	Text input.	m		

☐ yes

☐ no

☐ no

intermediate jacking station





## details to the jacking process:

jacking process  Text input.									
OD drill head	Text input. mn	า							
lubrication during jac	king operation	☐ no	☐ yes	lubricant pres	ssure <sub>Te</sub>	ext input.	bar		
permanent grouting of	of the annular gap	☐ no	ges	grout pressur	е те	ext input.	bar		
Issues for static cald	culation for jacking m	ethod a	cc. DWA-A	125 / DVGW GW :	<u>304:</u>				
<ul> <li>Shield with support liquid and ground slurry; continuous support of annular gap for the whole jacking section starting from shield with documentation</li> <li>Other jacking methods; continuous support of annular gap for the whole jacking section starting from shield with documentation</li> </ul>									
Overcut ≤ 1,0cm (relating to the radius), without continuous support of annular gap for the whole jacking section									
overcut > 1,0cm (relating to the radius), without continuous support of annular gap for the whole jacking section  Details to the loads:									
Depth of earth cover (above pipe crown)	min. h <sub>ü</sub> =	Text inpu	m m	max. h <sub>ü</sub>	Text inp	ut.	m		
Ground water table (above pipe bottom)	min. $h_{\ddot{u}} =$	Text inpu	m m	max. h	Text inp	ut.	m		
Inner pressure	Installation condition	Text inpu	<sub>t.</sub> bar	operating condition	Text inp	ut.	bar		
Water filling	Installation condition	Text inpu	<sub>t.</sub> bar	operating condition	Text inpo	ut.	bar		
Traffic load	☐ LM 1 ☐ DAC/BFZ	Text inpu	71 – single		171 – multip traffic ch a cross-s				
add. <b>area loads</b> on surface (e.g. buildings)  Text input.  KN/m²									





## Details to the soil conditions at pipe level and above:

Soil type around jacking pipe		G1 – non-cohesive		G2 – slightly-cohesive			
Compaction Level D		loose	me	edium dense	dens	se 🗌	very dense
		G3 – c	ohesive	mixed soil	☐ G4	– cohesiv	ve soil
consistence I <sub>C</sub>		slurry	☐ so	oft	stiff		semisolid
solid rock		weathe	red		☐ solid	d	
deviating soil properties from DWA-A 161/DVGW GW312 specific weight Text input. KN/m³							
					friction φ		
modulus of deformation Text input.							
Soil type above jacking pipe		G1 – n	on-cohe	esive	☐ G2	– slightly-	-cohesive
Compaction Level D		loose	me	edium dense	dens	se 🗌	very dense
		G3 – c	ohesive	mixed soil	☐ G4	– cohesiv	ve soil
consistence I <sub>C</sub>		slurry		soft	stiff stiff		semisolid
solid rock		weathe	red	\	☐ solid	d	
deviating soil properties from DWA-A 161/DVGW GW312 specific weight Text input. KN/m³						KN/m³	
				inner	friction φ	Text input	· ·
				modulus of de	formation	Text input	N/mm²
other details:							
Text input.				)			
Text input.							
Text input.							
Text input.							