

## 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.

company

Text input.

contact person

Text input.

street

Text input.

phone/fax

Text input.

postcode

Text input.

mail

Text input.

city

Text input.

date/stamp/signature

### details to the jacking pipe:

pipe material	<input type="text" value="GRP (UP-GF)"/>	pressure class PN	<input type="text" value=""/>	bar
outer diameter OD	<input type="text" value=""/>	mm	wall thickness e	<input type="text" value=""/>
				mm
pipe unit length l	<input type="text" value=""/>	m	jacking force plan.	<input type="text" value=""/>
				KN

### details to the jacking section:

jacking length compl.	<input type="text" value=""/>	m	longest single jacking section	<input type="text" value=""/>	m				
jacking route	<input type="checkbox"/> straight <input type="checkbox"/> one curve <input type="checkbox"/> several curves								
curve radius	curve 1	<input type="text" value=""/>	m	curve 2	<input type="text" value=""/>	m	curve 3	<input type="text" value=""/>	m
planned transition between curves	<input type="checkbox"/> yes		<input type="checkbox"/> no						
intermediate jacking station	<input type="checkbox"/> yes		<input type="checkbox"/> no						

**details to the jacking process:**

jacking process

OD drill head  mm

lubrication during jacking operation  no  yes      lubricant pressure  bar

permanent grouting of the annular gap  no  yes      grout pressure  bar

**Issues for static calculation for jacking method acc. DWA-A 125 / DVGW GW 304:**

- Shield with support liquid and ground slurry; continuous support of annular gap for the whole jacking section starting from shield with documentation
- Other jacking methods; continuous support of annular gap for the whole jacking section starting from shield with documentation
- 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.  $h_{\bar{u}}$  =  m      max.  $h_{\bar{u}}$  =  m

**Ground water table** (above pipe bottom)      min.  $h_{\bar{u}}$  =  m      max.  $h_{\bar{u}}$  =  m

**Inner pressure**      Installation condition  bar      operating condition  bar

**Water filling**      Installation condition  bar      operating condition  bar

**Traffic load**       LM 1       LM 71 – single track\*       LM71 – multiple track\*  
 DAC/BFZ        no traffic

\* please attach an cross-section

add. **area loads** on surface (e.g. buildings)  KN/m<sup>2</sup>

**details to the soil conditions at pipe level and above:**

**Soil tyoe around jacking pipe**  G1 – non-cohesive  G2 – slightly-cohesive

Compaction Level D  loose  medium dense  dense  very dense

G3 – cohesive mixed soil  G4 – cohesive soil

consistence I<sub>c</sub>  slurry  soft  stiff  semisolid

solid rock  weathered  solid

deviating soil properties from DWA-A 161/DVGW GW312

specific weight  KN/m<sup>3</sup>

inner friction φ  °

modulus of deformation  N/mm<sup>2</sup>

**Soil type above jacking pipe**  G1 – non-cohesive  G2 – slightly-cohesive

Compaction Level D  loose  medium dense  dense  very dense

G3 – cohesive mixed soil  G4 – cohesive soil

consistence I<sub>c</sub>  slurry  soft  stiff  semisolid

solid rock  weathered  solid

deviating soil properties from DWA-A 161/DVGW GW312

specific weight  KN/m<sup>3</sup>

inner friction φ  °

modulus of deformation  N/mm<sup>2</sup>

**other details:**