Planning Form Water Treatment Commercial Systems

Company	
Contact person	
Street, no	
Postal code, City	
Phone	
E-Mail	

Project name	
Building type	
Project Adress	
Street, no.	
Postal code, City	
Remarks	

Basics

Which water should be treated?

Which processing quality should be achieved?

Planning Form Water Treatment Commercial Systems

Water requirement

The treated water should be used for the following purposes

	Number of fixtures	Number of daily users	Daily requirement per user [L]	Remarks
Toilets				In Germany, normally 30 litres per person per day
Wasching mashines				In Germany, normally 10 litres per person per day
Outlet tap ½" (DN15)				Incl. showers/washbasins (in case of potable water)
Outlet tap ¾" (DN20)				
Outlet tap 1" (DN25)				

	Irrigation period	Litre/Day
Irrigation water		
Other requirement		

Water yield

Water is fed in from following sources

If greywater (for BOD < 200 mg/L)

	Number of users	Daily usage per user [L]	Remarks
Showers, bath, sinks			In Germany, normally 59 litres per person per day [University Oldenburg]
Other*			

If effluent water from a small wastewater treatment system (for BOD < 25 mg/L)**

Effluent from small wastewater system			In Germany, normally 127 litres per person per day [DWA]

* Washing machines no more than 25% of total. Kitchen effluent water not allowed.
** Which many small wastewater treatment plants, the discharge values can usually not be guaranteed permanently. There for a furthrt biological step is recommended instead of direct filtration.

If clear water (surface, groundwater) (for BOD < 5 mg/L)

	Litre/Day
Rainwater	
Surface water	
Ground water	

Structural boundary conditions with underground tank

Pipe connection

Tank overflow connection

Tanks overflow above the backwater level of the drainage feature

Requirements Memory from traffic load

Space

	Length x Width x Height
Max. space available for tank (outside)	
Available space in technical room	

Height
(use „-“ for heights below ground level)

	Metre
Height difference between ground level and technical room floor	
Height difference between technical room floor and highest fixture location	
Height difference between tank bottom and technical room	
Inlet pipe bottom depth below surface level	

Pipe length	Metre
Between technical room and furthest fixture location	
Between tank and technical room	

Structural boundary conditions with indoor tanks

Pipe connections

Tank overflow connection

Tank overflow above the backwater level of the drainage feature

Entrance	Width x Height
Smallest entrance to technical room	
Space / Room height	Length x Width x Height
Available space in technical room	
Max. available space for storage tanks	
Height	Metre
Difference between technical room floor and highest fixture location	
Difference between technical room floor and ground level	
Difference between technical room floor and ground level	Metre
Between technical room and furthest fixture location	

Attachments

- ☐ Drainage plan
- ☐ Building cross-sectional view
- ☐ Other:
- ☐ Layout drawing
- ☐ Location map

Remarks