

KanZEIT, based on time coefficient method, dimensions sewer networks automatically.

BaSYS KanZEIT

Time Coefficient Method

The time coefficient method is an empirical computer model for the new dimensioning of gravity sewer networks. The maximum flow as well as the necessary profile is computed in relation to the design rainfall for each point of the sewer network.

Fast Dimensioning

KanZEIT, in combination with BaSYS Plan, can dimension sewer networks fast and concisely:

- Rough design of the sewer network and definition of meaningful sub-networks using BaSYS Plan
 - Definition of the pre-settings and automatic dimensioning with KanZEIT
- With the quick entry forms, the entire design and dimensioning can also be accomplished directly in the tabular forms of KanZEIT.

Data Base Access

The KanZEIT forms directly access the BaSYS data base. The time coefficient method planned sewer network is thus immediately available to other

programs such as KanDATA. With HydroCAD, the hydraulic efficiency can be hydrodynamically proven without change to the network structure.

Libraries

The pre-setting and calculation data are concisely administered in the libraries:

- Reinhold and Kostra rainfall.
- Unrestricted profiles with dimensioning relevant profile attribute. The profiles can also be defined with a traverse.
- Arrangement of profiles in profile staggering. During the dimensioning, only the profiles of the selected staggering are considered.
- Calculation relevant surface parameters like the onset of specific external water are administered in the construction zone tables and can be used across zones.

Additional modules:

BaSYS Plan

BaSYS KanDATA

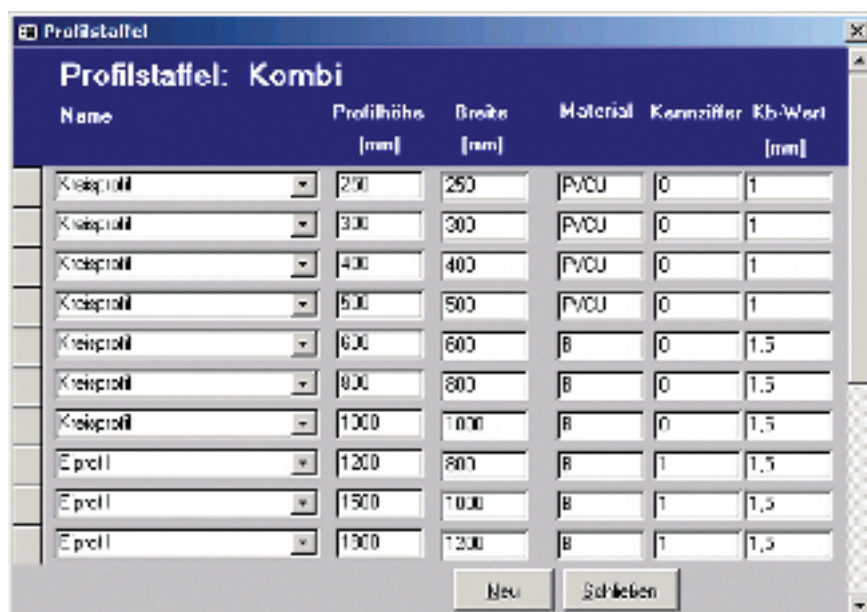
BaSYS HydroCAD

Longitudinal Section with:

BaSYS Longitudinal Section LT

BaSYS Longitudinal Design Section

BaSYS Lila



Name	Profilhöhe [mm]	Breite [mm]	Material	Kennziffer	Kb-Wert [mm]
Kreisprofil	200	250	PVCU	0	1
Kreisprofil	300	300	PVCU	0	1
Kreisprofil	400	400	PVCU	0	1
Kreisprofil	500	500	PVCU	0	1
Kreisprofil	600	600	B	0	1,5
Kreisprofil	800	800	B	0	1,5
Kreisprofil	1000	1000	B	0	1,5
Eprofil	1200	800	B	1	1,5
Eprofil	1500	1000	B	1	1,5
Eprofil	1800	1200	B	1	1,5

KanZEIT uses profile libraries for automatic dimensioning.



ID	Name	Date	Catchment	Drainage	Calculation	Output	Profile	Velocity	Flow	Storage	...
110001	110001	110001	110001	110001	110001	110001	110001	110001	110001	110001	...
110002	110002	110002	110002	110002	110002	110002	110002	110002	110002	110002	...
110003	110003	110003	110003	110003	110003	110003	110003	110003	110003	110003	...
110004	110004	110004	110004	110004	110004	110004	110004	110004	110004	110004	...
110005	110005	110005	110005	110005	110005	110005	110005	110005	110005	110005	...
110006	110006	110006	110006	110006	110006	110006	110006	110006	110006	110006	...
110007	110007	110007	110007	110007	110007	110007	110007	110007	110007	110007	...
110008	110008	110008	110008	110008	110008	110008	110008	110008	110008	110008	...
110009	110009	110009	110009	110009	110009	110009	110009	110009	110009	110009	...
110010	110010	110010	110010	110010	110010	110010	110010	110010	110010	110010	...
110011	110011	110011	110011	110011	110011	110011	110011	110011	110011	110011	...
110012	110012	110012	110012	110012	110012	110012	110012	110012	110012	110012	...
110013	110013	110013	110013	110013	110013	110013	110013	110013	110013	110013	...
110014	110014	110014	110014	110014	110014	110014	110014	110014	110014	110014	...

The basic calculations are defined by quick entry templates.

Calculation Pre-settings

An unlimited amount of calculation pre-settings can be administered. This includes parameters like:

- Drainage system (e.g. combined waste water)
- Rain type (from the library)
- Rain frequency (from the library)
- Profile staggering (from the library)

Calculation

The sub-networks are dimensioned in accordance with the boundary conditions which are active in the selected pre-setting. The following functionalities are used:

- All important input data is compared in tabular format.
- Basic data can be examined prior to the calculation for plausibility (with result log).
- After the start of the calculation, the entire sub-network is dimensioned automatically using the selected pre-settings.

The calculation results are also presented in a tabular format.

Road drainage according to RAS

With the choice of the appropriate pre-settings a calculation of the road drainage according to RAS, including depression storage, is possible.

Result Output

For the most important applications the results are provided as pre-defined re-ports. The contents of the KanZEIT forms can be exported in tabular form to Word or Excel.

Catchment Area

The catchment areas and partial catchment areas can be entered in this document. The following functionalities facilitate the procedure:

- The input fields are enabled or disabled depending upon the selected drainage system.
- The area slope groups (according to ATV) of the catchment area are computed automatically or preset. The discharge coefficient can be preset or computed over the area slope groups.

BaSYS

KanZEIT

Barthauer Software GmbH
 Pillaustraße 1a,
 38126 Braunschweig
 Germany
 Phone: + 49 (0)531 23533-0
 Telefon: + 49 (0)531 23533-99
 E-Mail : vertrieb@barthauer.de

Misprints, changes and errors excepted

Additional information under
www.barthauer.com

