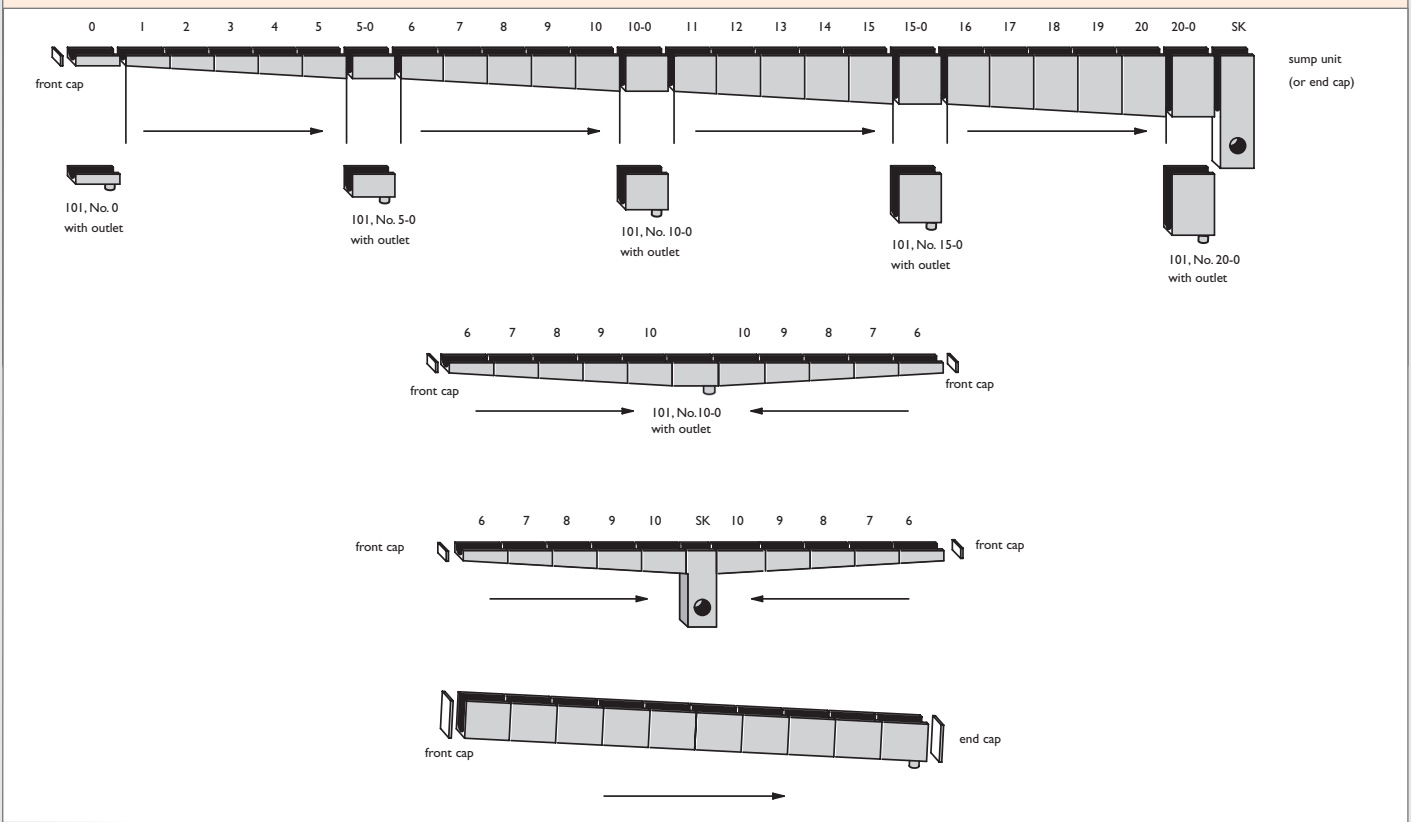




Your success is our goal!

LAYING DETAILS



Load classification

>> **Load classification** suitable for all channel types and for all covers

load classes	test load	area of application acc. to EN 1433	channeltypes
A 15	15 kN	Traffic areas which are only used by pedestrians and cyclists and similar areas, such as green spaces.	FILCOTEN light/tec, BGU, BGF, Standard, BG-FA
B 125	125 kN	Pavements, pedestrian areas and similar areas, car parks and parking decks	FILCOTEN light/tec BGU, BGF, Standard, BGU-Z, BGF-Z, BG-PA
C 250	250 kN	Only applies to attachments/drainage channels in the peripheral channel area, which may extend 0.5 m into the carriageway and 0.2 m into the pavement measured from the kerbside, and for road verges.	FILCOTEN light/tec BGU, BGF, Standard, BGU-Z, BGF-Z, BG-PA
D 400	400 kN	Carriageways of roads (including pedestrian zones), road verges, car parks and similar hard-surfaced thoroughfares.	BGU-Z, BGF-Z, BG-PA, BGZ-S
E 600	600 kN	Private thoroughfares which are used by vehicles with heavy wheels, e.g. routes for industrial construction traffic.	BGU-Z, BGF-Z, BG-PA, BGZ-S, BG-SI, BG-SL
F 900	900 kN	Areas which are used by especially heavy wheels, e.g. air traffic areas of commercial airports.	BGZ-S, BG-SI



Hydraulics

>> shallow channels.

channeltype:	FCT light mini 100	FCT tec mini 100	BGF 100		BGF-Z SV 100		BGF-Z SV 150	BGF-Z SV 200	BGF-Z SV 300
height:	55 mm	80 mm	80 mm	100 mm	80 mm	100 mm	100 mm	100 mm	140 mm
capacity (l/m)	3,5	4,0	4,5	6,5	3,0	4,0	6,0	8,0	21,0
Qmax (l/s)	0,6	0,8	1,0	1,9	0,5	0,8	1,3	1,8	6,9

>> steel channels.

channeltype:	BG-FA W 130			BG-FA W 230			BG-PA 100	BG-PA 150	BG-PA 200
height:	55 mm	70 mm	110 mm	55 mm	70 mm	110 mm	55 mm	55 mm	55 mm
capacity (l/m)	4,5	6,5	11,7	8,1	11,5	23,0	3,0	4,5	6,0
Qmax (l/s)	0,8	1,3	4,1	1,6	2,4	8,2	0,4	0,7	0,9

>> channels without grooves.

channeltype:	FCT-light 100		FCT-light 150	BGU 100		BGU 150		BG 100		BG 150		BG 200	
height:	0	10-0	BH = 150	0	10-0	0	10-0	0	10-0	0	10-0	0	10-0
capacity (l/m)	6,4	11,4	16,8	8,6	13,6	18,8	26,3	6,4	21,0	17,8	25,3	27,7	47,7
Qmax (l/s)	1,6	4,0	5,9	2,5	5,2	7,7	13,1	1,6	7,2	6,9	12,1	12,2	28,7
precipitation (l/s ha)	max. permissible surface (m ²)												
200	80	200	290	120	260	380	650	80	360	340	600	610	1430
250	60	160	230	100	200	300	520	60	280	270	480	480	1140
300	50	130	190	80	170	250	430	50	240	230	400	400	950
350	40	110	160	70	140	220	370	40	200	190	340	340	820
400	40	100	140	60	130	190	320	40	180	170	300	300	710

>> channels with grooves.

channeltype:	FCT-tec 100		FCT-tec 150	BGU-Z SV 100			BGU-Z SV 150		BGU-Z SV 200		BGU-Z SV 300	
height:	0	10-0	BH = 150	0	10-0	20-0	0	10-0	0	10-0	0	10-0
capacity (l/m)	8,9	13,9	19,8	8,9	13,9	18,9	18,8	26,3	33,0	43,0	60,0	75,0
Qmax (l/s)	2,7	5,5	8,4	2,7	5,5	9	7,7	13,1	16,6	25	35,6	49,8
precipitation (l/s ha)	max. permissible surface (m ²)											
200	130	270	420	130	270	450	380	650	830	1250	1780	2490
250	100	220	330	100	220	360	300	520	660	1000	1420	1990
300	90	180	280	90	180	300	250	430	550	830	1180	1660
350	70	150	240	70	150	250	220	370	470	710	1010	1420
400	60	130	210	60	130	220	190	320	410	620	890	1240

>> heavy duty channel.

channeltype:	BGZ-S SV 100			BGZ-S SV 150			BGZ-S SV 200			BGZ-S SV 300		BGZ-S 400	BGZ-S 500
height:	0	10-0	20-0	0	10-0	20-0	0	10-0	20-0	0	10-0	0	0
capacity (l/m)	8,9	13,9	18,9	20,0	27,5	35,0	35,7	45,7	55,7	80,3	95,3	138,0	210,0
Qmax (l/s)	2,7	5,5	9,0	8,4	13,8	20,2	18,2	26,8	36,5	53,3	69,5	110	191
precipitation (l/s ha)	max. permissible surface (m ²)												
200	130	270	450	420	690	1010	910	1340	1820	2660	3470	5500	9550
250	100	220	360	330	550	800	720	1070	1460	2130	2780	4400	7640
300	90	180	300	280	460	670	600	890	1210	1770	2310	3660	6360
350	70	150	250	240	390	570	520	760	1040	1520	1980	3140	5450
400	60	130	220	210	340	500	450	670	910	1330	1730	2750	4770

COMMENT: This average calculation is based on a strand length of 20 linear metres (shallow and steel channels of 10 linear metres) and free runout for each channel type specified. Regarding the channels used in multi-storey car parks, the low construction height results in a very flat water table which only permits low drainage efficiency. This is why multi-storey car park channels are predominantly used as evaporation channels (capacity is crucial).

We will be pleased to draft an exact hydraulic calculation adapted to local conditions at any time.