

1.2 Backwater chambers

For installation in the concrete slab
or underground

Standard backwater chamber or modular backwater chamber Ø 1000 with *Controlfix* clean out

The robust solution in front of the building

A backwater chamber in front of the building offers significant advantages. It enables all drainage points that are at risk of backwater to be safeguarded outside the building at a single central and maintenance-friendly point. Noise nuisance, for example due to pumps or similar, can be ruled out and there is no loss of living space in the building.

Double use

The backwater chamber can simultaneously be used as a transition chamber – with two side inlets for the drainage of the building, roof and yard.

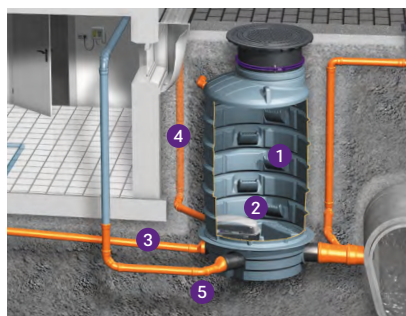


Thanks to the clean out *Controlfix*, the backwater chambers can be equipped with various conversion kits:

- Conversion kit *Staufix SWA*: Page 59
- Conversion kit *Staufix FKA*: Page 59
- Conversion kit *Pumpfix F*: Page 59

Standard backwater chamber Ø 1000 with *Controlfix*

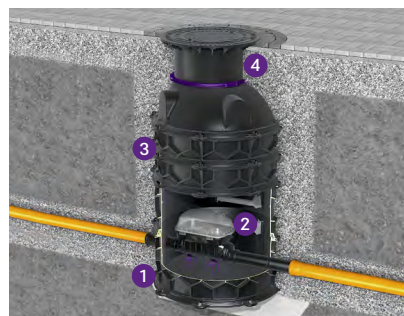
Thanks to its monolithic construction using unbreakable, impact-resistant material, the standard backwater chamber Ø 1000 is permanently leak-proof and secure against the ingress of roots. In addition, it can also be ideally adapted to the ground level thanks to its vertically, adjustable upper section.



- 1 Backwater chamber
- 2 Clean out
- 3 Basement drains
- 4 Roof drains
- 5 Basement drainage

Modular backwater chamber Ø 1000 with *Controlfix*

Thanks to its modular construction with a technical module as well as a large selection of chamber modules and upper sections, the modular backwater chamber can be adapted to suit any individual installation situation. Frost-free installation up to a depth of 3.000 mm



- 1 System base
- 2 Clean out
- 3 System chamber
- 4 Height adjustable upper section

Backwater inspection chamber Ø 1000 with *Controlfix*

For underground installation



Polyethylene PE-HD

Monolithic design, with open continuous channel and clean out *Controlfix*, with integrated access steps, watertight, resistant to aggressive wastewater, with telescopic height-adjustable protective cover made of polymer for use during the construction period (can be used as a cover in green areas).

Triple 160 mm hub type gasketed inlets (left and right inlets with open channel passage through chamber, center hub inlet connected to housing for insertion of KESSEL backwater valve). Available backwater valve options - KESSEL *Staufix SWA*, KESSEL *Staufix FKA* or KESSEL *Pumpfix F*.

For connection to PVC pipe according to EN 1401-1 and PE-HD connections according to EN 12666-1.

Installation:

Handles groundwater depths up to 2000 mm

Distance from base of chamber to to:

Base of inlet approx. 136 mm

Base of outlet approx. 108 mm

Note: Further chamber heights (on request)

➤ **Conversion kits:** page 59

➤ **Accessories:** pages 59 – 60



Installation depth
in mm

Art. no.

3 inlets Ø 160 / 1 outlet Ø 200

H1: 1180	88 10 05
H2: 1680	88 15 05
H3: 2180	88 20 05
H4: 2680	88 25 05
H5: 3180	88 30 05

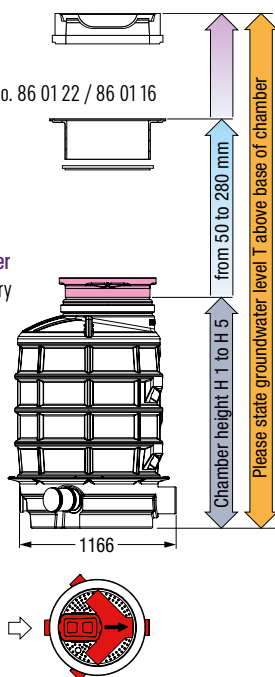
3 inlets Ø 160 / 1 outlet Ø 160

H1: 1180	88 10 05-DN 150
H2: 1680	88 15 05-DN 150
H3: 2180	88 20 05-DN 150
H4: 2680	88 25 05-DN 150
H5: 3180	88 30 05-DN 150

Standard cover on-site

Accessories Art. no. 86 01 22 / 86 01 16

Inspection chamber
including temporary
construction
debris cover



Accessories

Complete chamber in monolithic design

Conversion kits

for models made on or after 01/2011

		Art. no.
Backwater pumping <i>Pumpfix F</i>	Compatibility: Backwater inspection chamber Ø 1000, for Ø 110 – Ø 200* Inclusive: Komfort control unit Cable length: 15 m ➤ Cable extension: page 36	80 102
Motorized backwater valve <i>Staufix FKA</i>	Compatibility: Backwater inspection chamber Ø 1000, for Ø 110 – Ø 200* Inclusive: Komfort control unit Cable length: 15 m ➤ Cable extension: page 36	80 104
Backwater valve <i>Staufix SWA</i>	Compatibility: Backwater inspection chamber Ø 1000, for Ø 110 – Ø 200* * In-/Outlet Ø 200, hydraulics corresponds to Ø 160	80 091

Cover plates

for backwater inspection chamber Ø 1000

		Cover	Art. no.
with ventilation	Material: Class A, B in cast iron and concrete Class D in cast iron	Class A	860 134
		Class B	860 135
		Class D, locked	860 137
surface water tight	Material: In cast iron	Class A, locked	860 132
		Class B, locked	860 133
		Class D, locked	860 136
	Material: In cast iron and concrete	Class A	860 130
		Class B	860 131

Upper sections

for backwater inspection chambers Ø 1000

		Art. no.
with recesses for a sludge bucket	Compatibility: Not for surface water tight cover plates class A/B/D Inclusive: Fixing ring Installation: Telescopic height adjustable from 100 to 550 mm	860 120
without holders for sludge buckets	Compatibility: Cover plates class A/B/D Inclusive: Fixing ring Installation: Telescopic height adjustable from 100 to 550 mm	860 121
can be assembled with standard concrete rings	Compatibility: For standard bearing ring / concrete/cast covers, class A/B/D Installation: Telescopic height adjustable from 50 to 280 mm	860 122
	Compatibility: For standard bearing ring / concrete/cast covers, class A/B/D Installation: Telescopic height adjustable from 50 to 550 mm	860 125

Accessories

Complete chamber in monolithic design


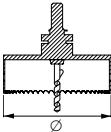
Gasket / Embedded step / Locking and removal key

Compatibility see product description

			Outer diameter Ø (mm)	Art. no.
Lip gasket	Compatibility: Art. no. 860 122, 860 125, 860 120, 860 121		Ø 600	860 116
Embedded step	Compatibility: Art. no. 860 122, 860 125, 860 120, 860 121 Inclusive: Drilling template, step, hand rail, screws Note: The embedded step can be fitted to the upper section (Art. no. 860 120, 860 121, 860 122) in the factory at an additional charge			860 109
Cable piping gasket set	Compatibility: Control unit 230 V Inclusive: ① Pipe sealing gasket ② PVC-collar plug ③ Twin flange Ø 110 ④ HT-collar plug ⑤ Cable connections ⑥ Retaining clip with screws		Ø 110	85 410
Locking and removal key	Compatibility: Chamber cover			915 595

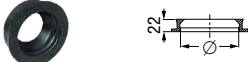
Hole saw

Compatibility see product description

			Outer pipe diameter in mm	Drill size in mm	Art. no.
Hole saw set	Inclusive: Saw blade holder		Ø 50 Ø 75 Ø 110	Ø 60 Ø 92 Ø 121	500 101
			Ø 110 Ø 125 Ø 160	Ø 121 Ø 133 Ø 168	500 100

Sealing

Compatibility see product description

			Nominal pipe diameter in mm	Outer pipe diameter in mm	Art. no.
Pipe sealing gasket	Drill size: Ø 50: 60 mm Ø 75: 92 mm Ø 110: 121 mm Ø 125: 133 mm Ø 160: 168 mm		DN 50 DN 70 DN 100 DN 125 DN 150	Ø 50 Ø 75 Ø 110 Ø 125 Ø 160	850 114 850 116 850 117 850 118 850 119

Engineering systems base backwater chamber with *Controlfix*



For installation in a concrete slab or outdoor underground installation

Polyethylene PE-HD

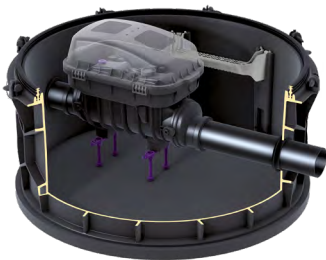
Version:

- integrated clean out *Controlfix*
- closed channel passage or two inlets in direction of flow

Installation:

Handles groundwater depths up to 3000 mm

- **Installation:** in combination with system chamber page 62 – 63
- **Conversion kits:** page 64
- **Accessories:** pages 64 – 65

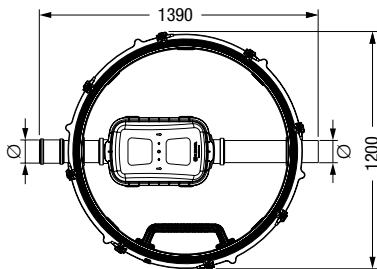
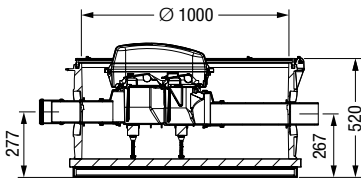


With closed channel passage

Outer diameter Ø (mm)	Art. no.
Ø 110	85 10 01
Ø 125	85 12 51
Ø 160	85 15 01

With two inlets 90° in flow direction

Outer diameter Ø (mm)	Art. no.
Ø 110	85 10 03
Ø 125	85 12 53
Ø 160	85 15 02



Engineering systems base backwater chamber in combination with system chamber Ø 1000

Conversion options

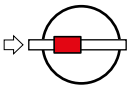
- Conversion kit *Staufix SWA*
- Conversion kit *Staufix FKA*
- Conversion kit *Pumpfix F*



Channel passage:

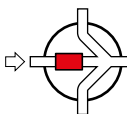
with closed channel passage Ø...

Version Ø 200: (on request)



with two inlets in direction of flow Ø...

left + right 90°



Engineering system chamber Ø 1000 with access opening Ø 600

for combination with engineering system base

Made of polyethylene PE-HD

Installation: For underground installation; handles groundwater depths up to 3000 mm

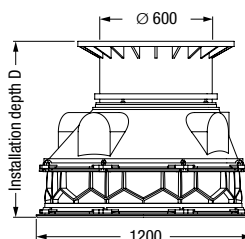
Modular design comprising:

- chamber rings with access steps fitted
- with telescopic height adjustable upper section
- round cover made of cast iron
- includes all sealing gaskets and wedge connectors required for installation

Delivery: As individual elements

Remark: Covers surface water tight

Note: Additional installation depths (on request)



Installation depth D in mm	Class A/B	Class D
	Art. no.	Art. no.
1130 - 1379	874 00 18	874 00 19
1380 - 1629	874 00 24	874 00 25
1630 - 1879	874 00 30	874 00 31
1880 - 2129	874 00 36	874 00 37
2130 - 2379	874 00 42	874 00 43
2380 - 2629	874 00 48	874 00 49
2630 - 2879	874 00 54	874 00 55
2880 - 3129	874 00 60	874 00 61

EN 13598 Part 2 Z-42.1-527

Engineering system chamber Ø 1000 with access opening Ø 800

for combination with engineering system base

Made of polyethylene PE-HD

Installation: For installation in the concrete slab; handles groundwater depths up to 3000 mm

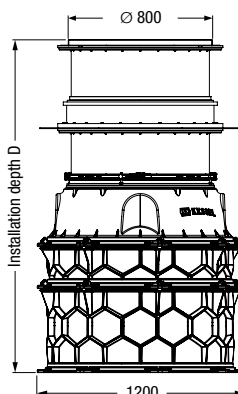
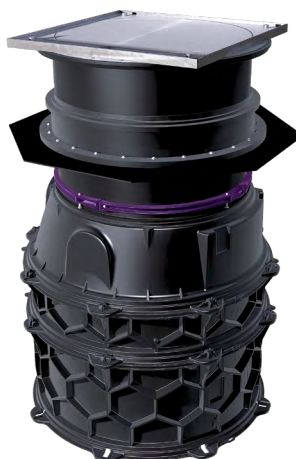
Modular design comprising:

- for waterproof concrete with flange and counter flange
- chamber rings with access steps fitted
- with telescopic height adjustable upper section
- square cover made of stainless steel, class A/L 15
- includes all sealing gaskets and wedge connectors required for installation

Delivery: As individual elements

Remark: Covers surface water tight

Note: Additional installation depths, upper sections and covers class B/D (on request)



Cover tileable

Installation depth D in mm	Art. no.
628 - 877	874 00 03
878 - 1127	874 00 09
1128 - 1377	874 00 15
1378 - 1627	874 00 21
1628 - 1877	874 00 27

Cover not tileable, anti-slip

Installation depth D in mm	Art. no.
613 - 862	874 00 05
863 - 1112	874 00 11
1113 - 1362	874 00 17
1363 - 1612	874 00 23
1613 - 1862	874 00 29

EN 13598 Part 2 Z-42.1-527

Engineering system chamber Ø 1000 with access opening Ø 800

for combination with engineering system base

Made of polyethylene PE-HD

Installation: For underground installation; handles groundwater depths up to 3000 mm

Modular design comprising:

- chamber rings with access steps fitted
- with telescopic height adjustable upper section
- covers made of stainless steel
- includes all sealing gaskets and wedge connectors required for installation

Delivery: As individual elements

Remark: Covers surface water tight

Note: Additional installation depths, upper sections and covers class B/D (on request)



Illustration shows Art. no. 874 01 22

Illustration shows Art. no. 874 01 22

Round cover

Installation depth D in mm	Art. no.
Class K 3	
375 - 624	874 01 22
625 - 874	874 01 23
875 - 1124	874 01 24
1125 - 1374	874 01 25
1375 - 1624	874 01 26
1625 - 1874	874 01 27
1875 - 2124	874 01 28
2125 - 2374	874 01 29
2375 - 2624	874 01 30
2625 - 2874	874 01 31
2875 - 3124	874 01 32

Square cover

Installation depth D in mm	Art. no.
Class B	
620 - 869	874 01 41
870 - 1119	874 01 42
1120 - 1369	874 01 43
Class D	
620 - 869	874 01 58
870 - 1119	874 01 59
1120 - 1369	874 01 60



Illustration shows Art. no. 874 00 20

Square cover

Installation depth D in mm	Art. no.
Class A/L 15, not tileable, anti-slip	
396 - 645	874 00 04
646 - 895	874 00 10
896 - 1145	874 00 16
1146 - 1395	874 00 22
1396 - 1645	874 00 28
1646 - 1895	874 00 34
1896 - 2145	874 00 40
2146 - 2395	874 00 46
2396 - 2645	874 00 52
2646 - 2895	874 00 58
2896 - 3145	874 00 64
Class A/L 15, tileable	
411 - 660	874 00 02
661 - 910	874 00 08
911 - 1160	874 00 14
1161 - 1410	874 00 20
1411 - 1660	874 00 26
1661 - 1910	874 00 32
1911 - 2160	874 00 38
2161 - 2410	874 00 44
2411 - 2660	874 00 50
2661 - 2910	874 00 56
2911 - 3160	874 00 62

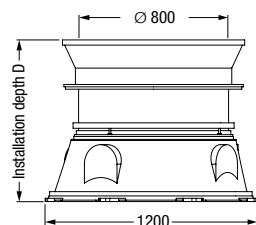


Illustration shows Art. no. 874 01 58

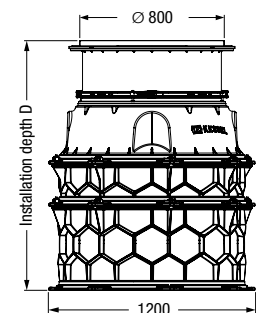





Illustration shows Art. no. 874 00 02

Accessories

Engineering systems base backwater chamber

Conversion kits

for models made on or after 01/2011

			Art. no.
Backwater pumping <i>Pumpfix F</i>	Compatibility: Engineering systems base backwater chamber Ø 1000, for Ø 110 – Ø 200* Inclusive: Komfort control unit Cable length: 15 m ➤ Cable extension: page 36		80 102
Motorized backwater valve <i>Staufix FKA</i>	Compatibility: Engineering systems base backwater chamber Ø 1000, for Ø 110 – Ø 200* Inclusive: Komfort control unit Cable length: 15 m ➤ Cable extension: page 36		80 104
Backwater valve <i>Staufix SWA</i>	Compatibility: Engineering systems base backwater chamber Ø 1000, for Ø 110 – Ø 200* * In-/Outlet Ø 200, hydraulics corresponds to Ø 160		80 091






Extension section

for engineering systems base backwater chamber

			Art. no.
500 mm	Inclusive: 2 access steps, installed Note: Without gasket and connecting wedges		680 371
250 mm	Inclusive: 1 access step, installed Note: Without gasket and connecting wedges		680 370

Gasket / Locking and removal key / Connection and attachment sets

Compatibility see product description

			Outer diameter Ø (mm)	Art. no.
Cable piping gasket set	Compatibility: Control unit 230 V Inclusive: ① Pipe sealing gasket ② PVC-collar plug ③ Twin flange Ø 110 ④ HT-collar plug ⑤ Cable connections ⑥ Retaining clip with screws		Ø 110	85 410
Locking and removal key	Compatibility: Chamber cover			915 595
Set of connecting wedges	Compatibility: Art. no. 680 371 and 680 370 Set-content: 10 pieces			680 373
Profiled gasket	Compatibility: Art. no. 680 371 and 680 370			680 125
Cable attachment set	Compatibility: Engineering systems base backwater chamber Ø 1000			28 076

Accessories

Engineering systems base backwater chamber

Hole saw

Compatibility see product description

Hole saw set	Inclusive: Saw blade holder		Outer pipe diameter in mm	Drill size in mm	Art. no.
			Ø 50 Ø 75 Ø 110 Ø 110 Ø 125 Ø 160	60 92 121 121 133 168	500 101 500 100

Sealing

Compatibility see product description

Pipe sealing gasket	Drill size: Ø 50: 60 mm Ø 75: 92 mm Ø 110: 121 mm Ø 125: 133 mm Ø 160: 168 mm		Nominal pipe diameter in mm	Outer pipe diameter in mm	Art. no.
			DN 50 DN 70 DN 100 DN 125 DN 150	Ø 50 Ø 75 Ø 110 Ø 125 Ø 160	850 114 850 116 850 117 850 118 850 119



HOVEDKONTOR

Regnbueveien 9
NO-1405 Langhus
Telefon: +47 64 85 68 00
E-post: info@gpa.no