

YOUR DRAINAGE SPECIALIST



**BLÜCHER®**

K E E P I N G   U P   T H E   F L O W

STAINLESS STEEL DRAINAGE SYSTEMS



# BLÜCHER CHANNEL®

## BLÜCHER® stainless steel drainage system

On the basis of 40 years experience in the production and sale of stainless steel floor drainage solutions BLÜCHER has incorporated the very best features in the BLÜCHER Channel® range to provide an easy to use, high-performance off-the-shelf solution for drainage channels.

To our customers this means easy selection, fast delivery and competitive prices combined with optimum quality and corrosion resistance.

### **Stainless steel drainage systems**

In addition to drainage channels, BLÜCHER also manufactures light- and heavy-duty floor drains and the BLÜCHER EuroPipe® push-fit drainage pipework system – all in stainless steel.

Founded in Denmark in 1965, BLÜCHER has developed into a leading manufacturer of stainless steel drainage systems. Today BLÜCHER is an international company with about 300 employees and with subsidiaries and representations worldwide.

The BLÜCHER® drainage products are manufactured in Denmark using the most modern production methods and in accordance with the internationally recognised quality standard ISO 9001.

All BLÜCHER® drainage products are made entirely in stainless steel AISI 304 or optionally AISI 316L. This material is ideally suitable for high-quality drainage systems:

- corrosion resistant
- fire resistant
- resistant to impacts and thermal stress
- high strength relative to its low weight
- smooth surface
- hardly any maintenance required
- environmentally friendly

In the BLÜCHER® drainage products these inherent qualities of stainless steel are enhanced by careful product design, thus resulting in:

- reliability
- ease of installation
- long product life expectancy
- excellent hygienic properties
- excellent flow properties
- installed cost advantages and whole-life cost advantages

All BLÜCHER® products are chemically descaled and passivated in order to enhance the natural corrosion resistance and provide a uniform matt-silver surface finish.

**See also [www.blucher.com](http://www.blucher.com)**

## Standard channel range

The BLÜCHER® standard channel range comprises drainage channels for all common applications and for all common floor types, i.e. for concrete/in-situ/tiled floors or for vinyl floors.

The standard channels are available in lengths ranging from 1 m to 17 m and up to four standard widths, dependent on type of channel, and in variations with or without outlet box.

Each type of standard channel is available with different types of standard gratings suitable for weight loads from 1350 kg up to 8400 kg.

The BLÜCHER® standard channels are produced in stainless steel AISI 304/EN 1.4301.

**Selecting a channel from the standard range is easy: Use the tables on pages 6 – 9 to identify type number for the channel requested, including grating. Then select lower part and accessories, using the diagrams on pages 13, 15 and 17.**

Most standard channels can be supplied from stock with short lead times.

### Options and extras

Stabiliser angles, adjustable legs, edge infill, other types of gratings, etc. are among the options available for the standard channel range. See pages 24-26.

## Custom solutions

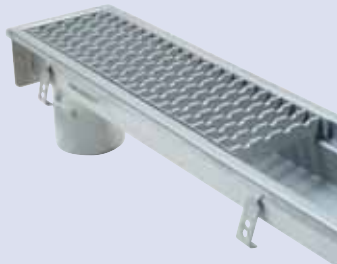
In addition to the BLÜCHER® standard channel range, BLÜCHER® also offers purpose-made channels on request to ensure that any drainage requirement can be satisfied. Our drainage know-how enables us to provide extensive engineering assistance – please contact our sales department. See also page 23.




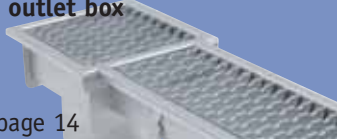
# STANDARD CHANNEL RANGE

## Standard channels with gratings

The type nos. on page 7 specify standard channels including one of the three standard gratings.

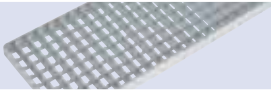
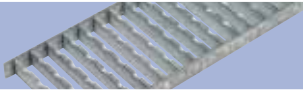
Description	Type	Width	Outlet	Length
 <p>For concrete, in-situ or tiled floors</p> <p>See page 12</p>	670	147 mm	OD 110 mm, end	L = 1000 mm
				L = 1500 mm
	L = 2000 mm			
	L = 3000 mm			
	197 mm	OD 160 mm, end	L = 1000 mm	
			L = 1500 mm	
L = 2000 mm				
L = 3000 mm				

 <p>For sheet vinyl floor covering</p> <p>See page 12</p>	672	147 mm	OD 110 mm, end	L = 1000 mm
				L = 1500 mm
	L = 2000 mm			
	L = 3000 mm			
	197 mm	OD 160 mm, end	L = 1000 mm	
			L = 1500 mm	
L = 2000 mm				
L = 3000 mm				

 <p>For concrete, in-situ or tiled floors with outlet box</p> <p>See page 14</p>	671	147 mm	OD 160 mm, end	L = 1000 mm
				L = 1500 mm
				L = 2000 mm
				L = 3000 mm


Lower parts are to be ordered separately, see overview p. 19 and description p. 20. For description of gratings see p. 18. Other channel and gratings, dimensions and types are available on request as customized solutions.

In addition to the standard solutions described above, BLÜCHER offers a range of options and customer-specific designed channels.

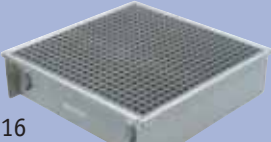
Type no. for channel incl. grating		
Mesh grating Pallet trucks, trolleys Max. load 1350/1800 kg	Ladder grating Delivery vans, lorries Max. load 5000 kg	HygienicPro Forklift trucks Max. load 6000/8400 kg
		
670.150.100.22	670.150.100.25	670.150.100.60
670.150.150.22	670.150.150.25	670.150.150.60
670.150.200.22	670.150.200.25	670.150.200.60
670.150.300.22	670.150.300.25	670.150.300.60
670.200.100.22	670.200.100.25	670.200.100.60
670.200.150.22	670.200.150.25	670.200.150.60
670.200.200.22	670.200.200.25	670.200.200.60
670.200.300.22	670.200.300.25	670.200.300.60
672.150.100.22	672.150.100.25	672.150.100.60
672.150.150.22	672.150.150.25	672.150.150.60
672.150.200.22	672.150.200.25	672.150.200.60
672.150.300.22	672.150.300.25	672.150.300.60
672.200.100.22	672.200.100.25	672.200.100.60
672.200.150.22	672.200.150.25	672.200.150.60
672.200.200.22	672.200.200.25	672.200.200.60
672.200.300.22	672.200.300.25	672.200.300.60
671.150.100.22	671.150.100.25	671.150.100.60
671.150.150.22	671.150.150.25	671.150.150.60
671.150.200.22	671.150.200.25	671.150.200.60
671.150.300.22	671.150.300.25	671.150.300.60

# Standard channels with gratings

The type nos. on page 9 specify standard channels including one of the three standard gratings.

Description	Type	Width	Outlet	Length
<b>For concrete, in-situ or tiled floors with outlet box</b> 	<b>673</b>	60 mm	OD 160 mm, center	L = 3000 mm
				L = 4000 mm
				L = 5000 mm
				L = 6000 mm
				L = 7000 mm
				L = 8000 mm
				L = 9000 mm
				L = 10000 mm
				L = 11000 mm
				L = 12000 mm
				L = 13000 mm
				L = 14000 mm
				L = 15000 mm
L = 16000 mm				
L = 17000 mm				

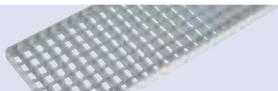
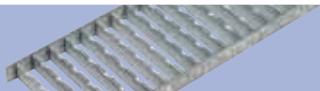
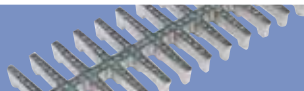
See page 14

<b>For concrete, in-situ or tiled floors</b> 	<b>660</b>	400 mm	OD 160 mm, center	L = 400 mm
				L = 800 mm
				L = 500 mm
				L = 1000 mm

See page 16

Lower parts are to be ordered separately, see overview p. 19 and description p. 20. For description of gratings see p. 18. Other channel and gratings, dimensions and types are available on request as customized solutions.

In addition to the standard solutions described above, BLÜCHER offers a range of options and customer-specific designed channels.

Type no. for channel incl. grating		
Mesh grating Pallet trucks, trolleys Max. load 1350/1800 kg	Ladder grating Delivery vans, lorries Max. load 5000 kg	HygienicPro Forklift trucks Max. load 6000/8400 kg
		
673.000.300.22	673.000.300.25	673.000.300.60
673.000.400.22	673.000.400.25	673.000.400.60
673.000.500.22	673.000.500.25	673.000.500.60
673.000.600.22	673.000.600.25	673.000.600.60
673.000.700.22	673.000.700.25	673.000.700.60
673.000.800.22	673.000.800.25	673.000.800.60
673.000.900.22	673.000.900.25	673.000.900.60
673.000.1000.22	673.000.1000.25	673.000.1000.60
673.000.1100.22	673.000.1100.25	673.000.1100.60
673.000.1200.22	673.000.1200.25	673.000.1200.60
673.000.1300.22	673.000.1300.25	673.000.1300.60
673.000.1400.22	673.000.1400.25	673.000.1400.60
673.000.1500.22	673.000.1500.25	673.000.1500.60
673.000.1600.22	673.000.1600.25	673.000.1600.60
673.000.1700.22	673.000.1700.25	673.000.1700.60

660FK004-11.22
660FK008-11.22
660GK005-15.22
660GK010-15.22

# The right solution

## Selecting a channel system:

- **Water load**

- continuous water flow
- intermittent discharge
- washdown

It is important to ensure that the lower part and trap arrangement has adequate flow capacity for the application.

- **Waste products**

Where possible a grate should be chosen which permits pieces of waste to pass through for collection in a filter basket.

- **Loading**

Can influence the choice of channel width as well as determining the most appropriate grating for the application.

- **Stainless steel grade**

AISI 304 (EN 1.4301)

- **Floor covering**

Concrete/tiles/in-situ (e.g. epoxy resin) or flexible sheet (e.g. vinyl).

- **Membrane type**

Where required liquid or dry membrane application will determine the choice of lower part.

See also technical information page 27.

## Floor drainage methods

### Choice of channel or industrial drain

To choose between a channel and a floor drain it is necessary to consider the room's use and design. For example the number and location of discharge points, frequency of discharge, the volume of water, the size of the room and the nature of the traffic in the room.

The following factors indicate that channels should be considered:

- Many discharge points. It is possible to install a channel network such that individual discharge points are picked up and water does not cover the entire floor and cause a safety hazard.
- Large floor area. Installing a channel in a large room allows the floor to be laid with less fall.
- Large quantities of surface water. The water content of a large channel acts as a buffer and reduces slip hazards.
- Breakwater. A channel in a door opening will isolate designated wet and dry areas.

# Channel range overview

## Type 670

### Channel without outlet box for concrete, in-situ and tiled floors

Width:	147 and 197 mm grate location width
Outlet:	OD 110 or OD 160 mm plain spigot
Length:	1-3 metres
Max depth at outlet:	90 mm
Typical applications:	Shower areas, kitchens, food & beverage production, chemical plants, abattoirs



## Type 672

### Channel without outlet box for sheet vinyl floor covering

Width:	147 and 197 mm grate location width
Outlet:	OD 110 or OD 160 mm plain spigot
Length:	1-3 metres
Max depth at outlet:	90 mm
Typical applications:	Shower areas, kitchens, laboratories



## Type 671\*

### Channel with outlet box for concrete, in-situ or tiled floors

Width:	147 mm grate location width
Outlet:	Outlet box with OD 160 mm outlet
Length:	1-3 metres
Max depth at outlet:	90 mm
Typical applications:	Kitchens, food & beverage production, chemical plants, abattoirs



## Type 673

### Slot channel with outlet box for concrete, in-situ or tiled floors

Width:	20 mm aperture (B)
Outlet:	Outlet box with OD 160 mm outlet
Length:	3-17 metres
Max depth at outlet:	78, 93 or 108 mm
Grating:	For outlet box only
Typical applications:	Shower areas, beverage production, chemical plants, swimming pools, breakwaters

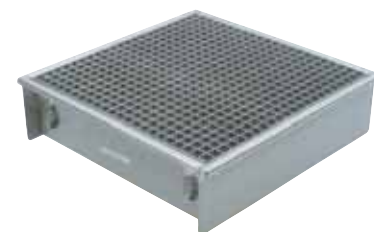


## Type 660

### Kitchen channels are for concrete/tiled floors

Kitchen channels for flexible sheet flooring or for floors with membrane are also available on request.

Dimensions:	400 x 400, 400 x 800, 500 x 500 or 500 x 1000 mm
Outlet:	OD 160 mm outlet
Depth at outlet:	150 mm
Typical applications:	Commercial kitchens, restaurants, etc.



\* The advantage of type 671 relative to type 670 is that with a narrow channel 147 mm grate location width it is possible to achieve a higher outlet capacity via the OD 160 mm outlet box.

All channels with OD 160 mm outlet box can be combined with horizontal or vertical lower parts, with or without a membrane flange. This detail also provides 60 mm height adjustment and full rodding access via the removable water trap.

## Type 670

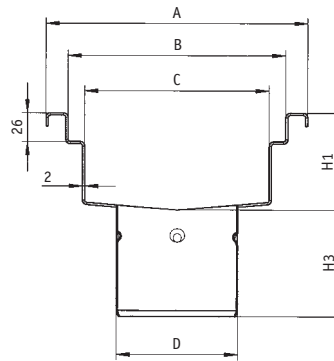
### Channel without outlet box for concrete, in-situ or tiled floor

The channel is made in the following standard widths: 147 and 197 mm.

A range of gratings is available to suit the varying load and flow requirements.

#### Application areas:

- For discharge directly into the channel
- For waste water with solids present
- Where the channel's water content is required as a buffer
- Shower areas, kitchens, food & beverage production, chemical plants, abattoirs



Channel type	Outlet	A	B	C	D	H1	H3
670.150.xxx.xx	End	187	147	117	110	90/120	98
670.200.xxx.xx	End	237	197	167	160	90/120	83

## Type 672

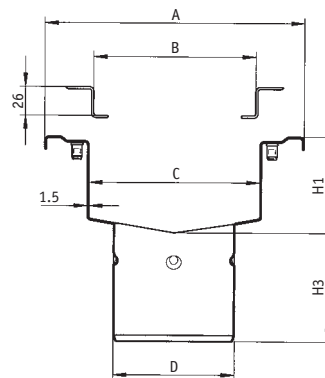
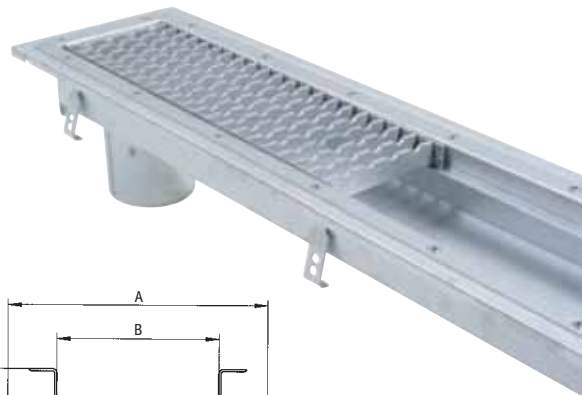
### Channel without outlet box for sheet vinyl floor covering

The channel is made in the following standard widths: 147 and 197 mm.

A range of gratings is available to suit the varying load and flow requirements.

#### Application areas:

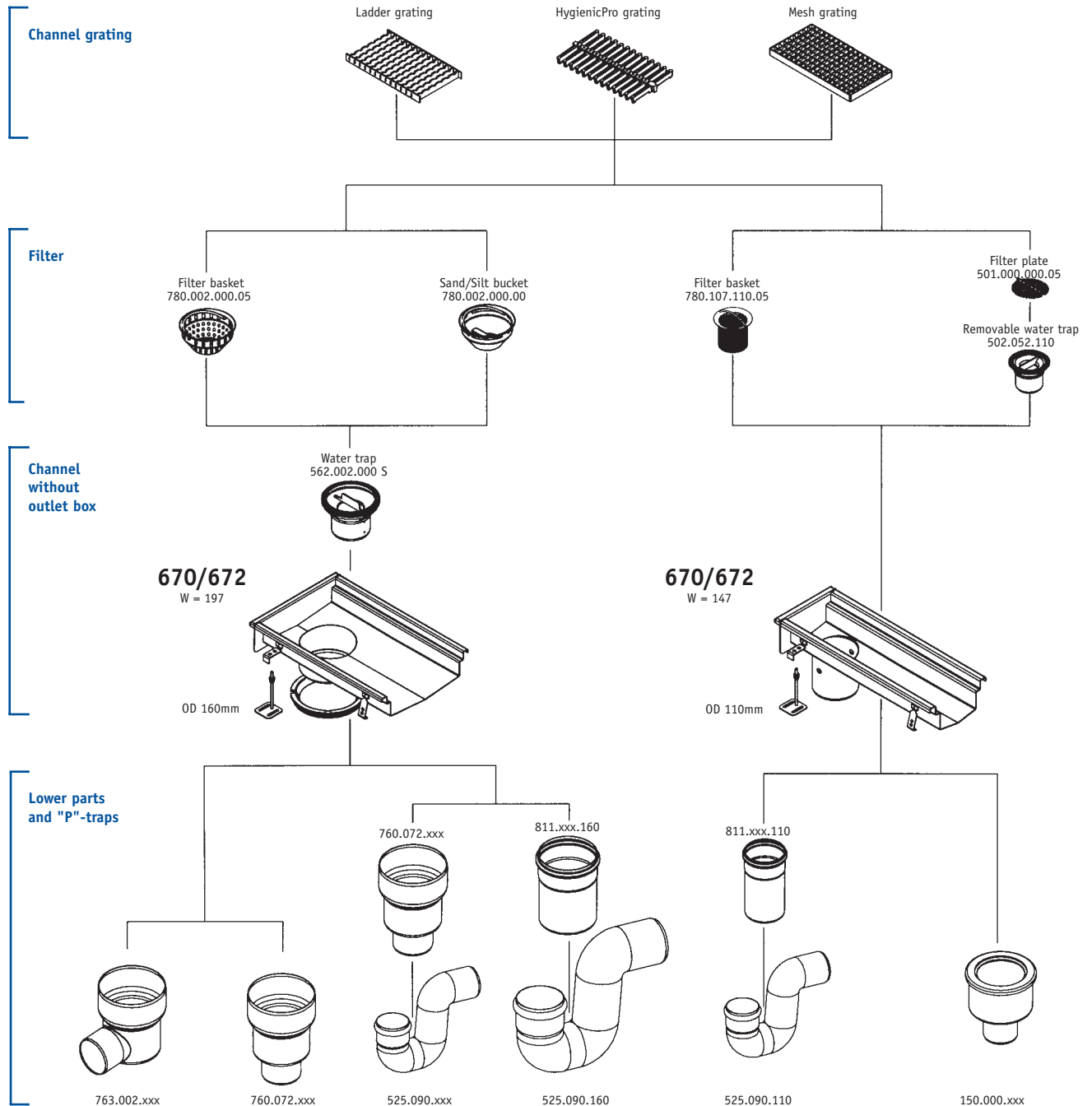
- Where the channel's water content is required as a buffer
- For discharge directly into the channel
- For waste water with solids present
- Vinyl thickness from 2 - 4 mm
- Shower areas, kitchens, laboratories, doorways



Channel type	Outlet	A	B	C	D	H1	H3
672.150.xxx.xx	End	235	147	155	110	90/120	98
672.200.xxx.xx	End	285	197	205	160	90/120	83

# Accessories

The diagram below shows accessories and outlet configurations achievable



## Type 671

### Channel with outlet box for concrete, in-situ or tiled floor

The channel is made in a standard width of 147 mm internal frame dimension. The benefit of the outlet box is that at 147 mm channel width it is possible to combine the channel with lower parts, removable water trap, 'P' trap, filter basket and sand/silt bucket.

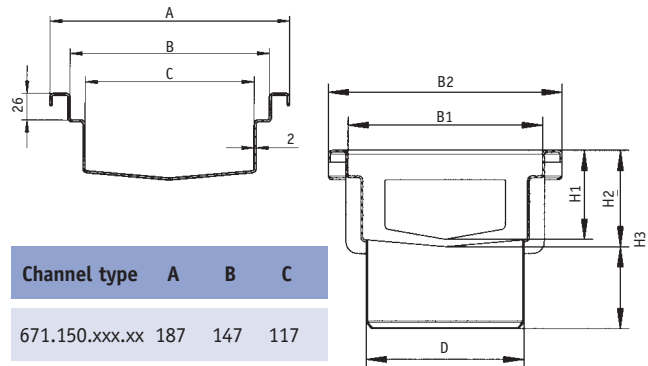
A range of gratings is available to suit the varying load and flow requirements.

#### Application areas:

- For discharge directly into the channel
- For waste water with solids present
- Where the channel's water content is required as a buffer
- Kitchens, food & beverage production, chemical plants, abattoirs

#### Outlet box

The outlet box is supplied in one standard size and outlet dimension.



Channel type	A	B	C
671.150.xxx.xx	187	147	117

Outlet box	D	B1	B2	H1	H2	H3
End	160	197	237	90	100	83

## Type 673

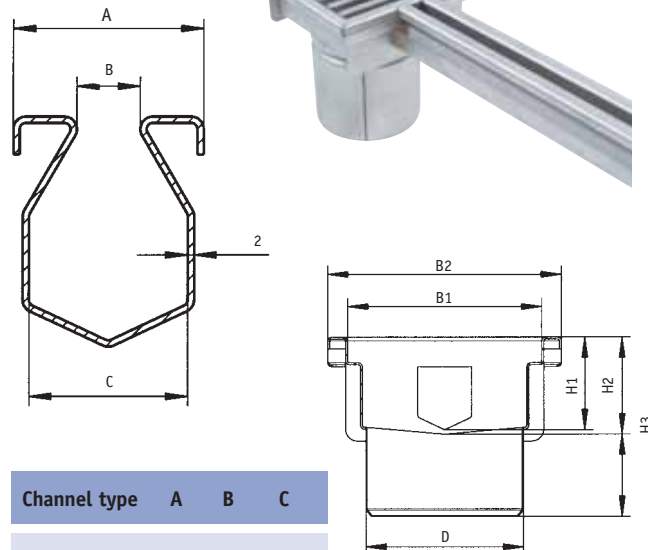
### Slot channel with outlet box for concrete, in-situ or tiled floors

Slot channel requires no grating but instead has a 20 mm aperture along the channel length, making it the most cost effective solution in the modular range.

The profile shape has been developed to make it robust, hygienic and most suitable for applications where wastewater discharges carry little or no solid matter. A range of gratings is available for the outlet box.

#### Application areas:

- As a breakwater to separate designated wet and dry areas
- Washdown areas where wastewater contains low solid content
- Low floor constructions – the reduced channel invert means that Slot channel can be installed within restricted floor spaces
- Shower areas, beverage production, chemical plants, swimming pools, breakwaters

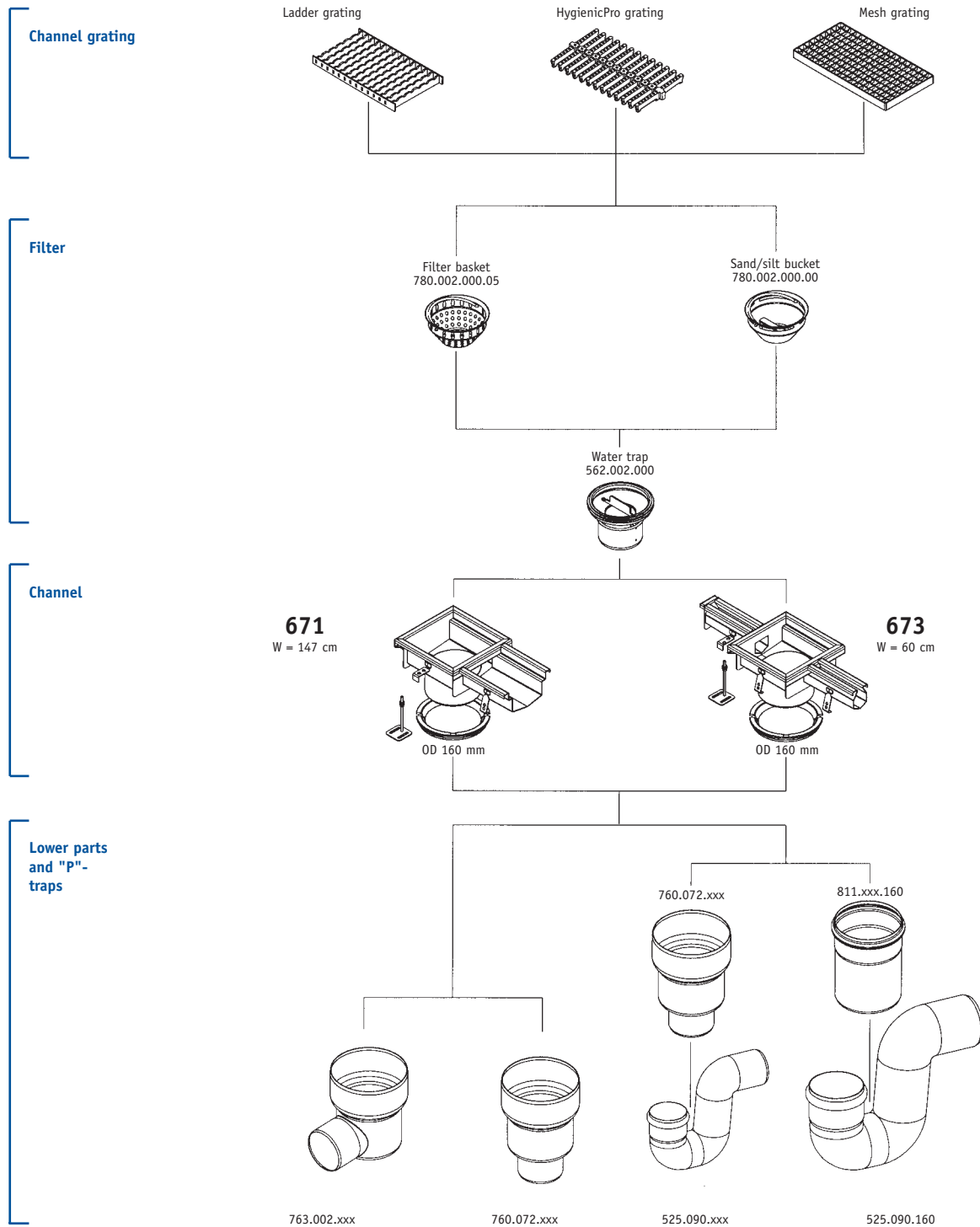


Channel type	A	B	C
673.000.xxx.xx	60	20	50

Outlet box	L	D	B1	B2	H1	H2	H3
Center	3-6 m	160	197	237	78	85	83
	7-11 m	160	197	237	93	100	83
	12-17 m	160	197	237	108	120	83

# Accessories

The diagram below shows accessories and outlet configurations achievable



# Type 660

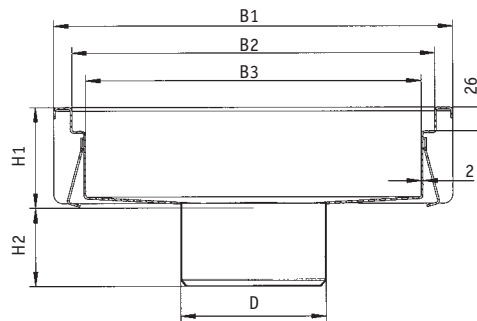
## Kitchen channel for concrete floors

The kitchen channel is made in standard sizes 400x400, 400x800, 500x500 and 500x1000 mm. For the kitchen channel, a mesh grating is available.



### Application areas:

- For discharge directly into the channel
- For waste water with solids present
- Commercial kitchens

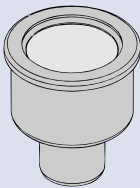
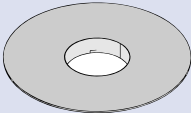
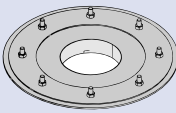
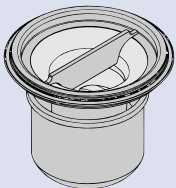
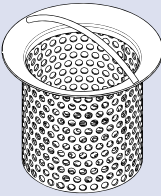
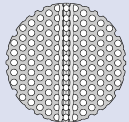


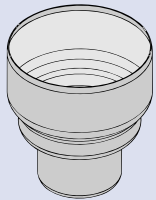
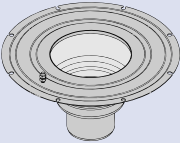
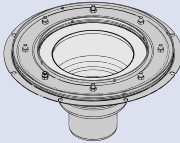
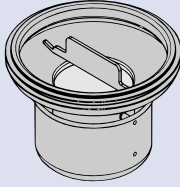
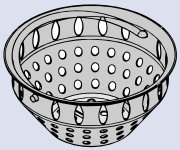
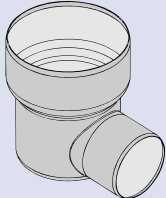
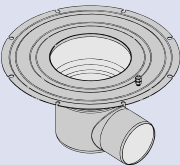
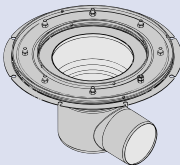
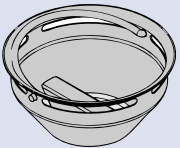
Channel type	Designation	B1	B2	B3	H1	H2	D
660FK004-11.22	400 x 400	437 x 437	397 x 397	367	110	85	160
660FK008-11.22	400 x 800	437 x 837	397 x 797	367	110	85	160
660GK005-15.22	500 x 500	537 x 537	497 x 497	467	150	85	160
660GK010-15.22	500 x 1000	537 x 1037	497 x 997	467	150	85	160



# ACCESSORIES (to be ordered separately)

## Lower parts and accessories overview

Channel outlet size	Lower part	Flange		Water trap	Filter basket/ filter plate
		Liquid membrane	Sheet membrane		
OD 110 mm outlet	 150.000.075 150.000.110	 362.302.000	 325.302.000	 502.052.110	 780.107.110.05 S
		 501.000.000.05 S			

Channel outlet size	Lower part			Water trap	Filter basket/ sand bucket
	No membrane	Liquid membrane	Sheet membrane		
OD 160 mm outlet	 760.072.110	 774.072.110	 775.072.110	 562.002.000 S	 780.002.000.05
	 763.002.110	 769.002.110	 771.002.110		 780.002.000.00

**Adjustable legs**



670.000.001

Lower parts, water traps and accessories to be ordered separately.



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**TECHNOLOGIES**