

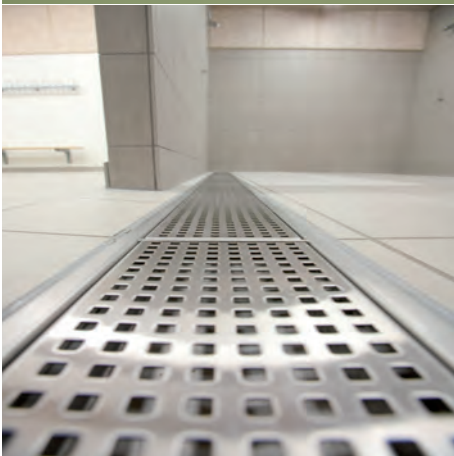
BLÜCHER® DRAINAGE SYSTEMS

BLÜCHER® EuroPipe, BLÜCHER® Roof Drainage,
BLÜCHER® Domestic and Design Drains,
BLÜCHER® Industrial Drains and Channels.



BLÜCHER®

A **WATTS** Brand



Technical Information

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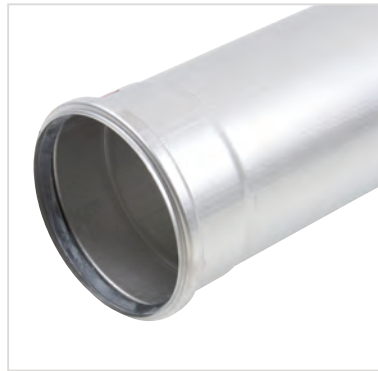
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Stainless steel



Long product life

Fire resistant

Lightweight

Hygienic

Long product life

- Corrosion resistant
- Resistant to impact damages
- Resistant to temperature variations

Fire resistant

- Non combustible
- No need for special fire insulation
- No toxic fumes are released in case of fire

Light-weight

- Low weight - high strength
- Weight only one third of cast iron
- Large pipes are easily handled by one man

Hygienic

- Low surface roughness
- High flow capacity
- Smooth surface prevents bacterial growth
- Smooth surface prevents blockages

Available in stainless steel AISI304/EN 1.4301 or
AISI316L/EN 1.4404

Material properties of stainless steel

What is stainless steel?

The designation stainless steel covers a wide range of alloys with different properties. One property common to all stainless steels is that they contain at least 12% chromium.

The stainless steels can be divided into three main groups and a few mixed types according to the structure of the steel:

- Austenitic stainless steel
- Ferritic stainless steel
- Martensitic stainless steel

Austenitic stainless steel is the most important, representing approx. 90% of total stainless steel consumption. Austenitic steel is also the only stainless steel suitable for drainage installations, and it is, of course, the type used by BLÜCHER.

Importance of alloying elements

Austenitic stainless steel contains at least 18% chromium and 8% nickel – thus the well-known designation »18/8« steel. Corrosion resistance generally increases with increasing content of chromium. In alloys with 12-13% chromium, the passive layer is strong enough to prevent the steel from corroding in normal or mildly aggressive media. The main effect of the alloying element nickel is on the structure of the steel and its mechanical properties. The steel's structure is austenitic with an adequate content of nickel. In contrast to the pure chromium steels (ferritic stainless steel), this results in significant changes in the mechanical properties, such as increased workability and ductility, better resistance to thermal stress and improved weldability. The austenitic structure also results in a change in the physical properties of the steel. For example, the steel is not magnetic and has higher thermal conductivity.

Nickel also increases resistance to corrosion caused by certain media. Molybdenum has the same effect on the structure as chromium, but it also has a strongly positive influence on corrosion resistance. Molybdenum-containing steel is normally designated »acid-resistant« because of the resistance of these steels to certain types of acids. But acid-resistant stainless steel will also have limited resistance to some media such as chlorine-containing media (see table of resistance).

Why is steel »stainless«?

The addition of chromium to the steel results in the formation of a passivating oxide film with a high content of chromium oxides.

This oxide film protects the surface of the steel against oxygen in air and water. An outstanding property of stainless steel is that the chromium oxide film automatically regenerates if the surface of the steel is exposed.

This restitution of the oxide film can only occur if the surface of the steel is completely clean and free of tempering agents and slag from welding processes and residues from tools made from ordinary carbon steel.

If this surface contamination is not removed, the steel may ultimately corrode. To prevent this, the steel surfaces should be cleaned after welding and processing, e.g. by means of so-called acid pickling of the stainless steel.

The pickling effectively removes all impurities from the surface of the steel and permits the reestablishment of a strong, uniform chromium oxide film. The pickling bath normally consists of 0.5-5% v/v HF (hydrofluoric acid) and 8-20% v/v HNO₃ (nitric acid) at a temperature of 25-60°C. This acid bath removes residues, the existing chromium oxide film and traces of iron, leaving the clean steel surface. The restitution of a strong chromium oxide film starts in the subsequent rinsing in water.

Material Specification

Material	AISI 316 L 1.4404	AISI 304 1.4301
Analysis		
Carbon (C %)	Max. 0,03	Max. 0,07
Chromium (Cr %)	16,5 - 18,5	17,0 - 19,0
Nickel (Ni %)	11,0 - 14,0	8,5 - 10,5
Molybdenum (Mo %)	2,0 - 2,5	-
Manganese (Mn %)	Max. 2,0	Max. 2,0
Silicium (Si %)	Max. 1,0	Max. 1,0
Sulphur (S %)	Max. 0,030	Max. 0,030

Physical Properties

Structure	Austenitic (nonmagnetic)	Austenitic (nonmagnetic)
State	Non-annealed	
Specific gravity (g/cm ³)	7,98	7,9
Melting point (°C)	Ca. 1400	Ca. 1400
Decortication temperature in air (°C)	800 - 860	800 - 860
Expansion coefficient 20 - 100 °C (m/m · °C)	16,5 x 10 ⁻⁶	16,5 x 10 ⁻⁶
Specific resistance (20° C) (Ohm · mm ² /m)	0,75	0,73
Heat conductivity (20°C) (W/°C-m)	15	15
Specific heat (J/g · K)	0,5	0,5

Mechanical Properties

Ultimate tensile strength (Rm) (N/mm ²)	490 - 690	500 - 700
Yield point (Rpo2) (N/mm ²)	190	195
Modulus of elasticity (E) (20° C) (N/mm ²)	2,0 x 10 ⁵	2,0 x 10 ⁵
Hardness Brinell (HB) (N/mm ²)	120 - 180	130 - 180

CHEMICAL RESISTANCE TABLE

The table is based on laboratory experiments with chemically pure sub-stances. The values should therefore be regarded as for guidance only.

A = Very good service to operating limit of material B = Moderate service C = Limited or variable service D = Unsatisfactory	AISI 316 L Stainless	AISI 304 Stainless	EPDM	NBR	FPM
Acetone	A	A	A	D	D
Acetic acid (dilute.) 30% or 50%	A	A	A	B	B
Acetic acid 100%	A	A	A	C	C
Acetic anhydride	A	A	B	C	D
Aluminium chloride	D	D	A	A	A
Aluminium sulfate	A	D	A	A	A
Ammonium carbonate	A	A	A	D	-
Ammonium chloride/salmiac	B	C	A	A	-
Ammonium hydroxide	A	A	A	D	B
Amyl chloride	A	A	-	-	-
Aniline	A	A	B	D	C
Anilin hydrochloride	D	D	B	B	B
Barium chloride	B	B	A	A	A
Barium hydroxide	A	A	A	A	A
Benzaldehyde	A	A	A	D	D
Benzene	A	A	D	D	A
Benzoic acid	A	A	-	-	A
Borax/sodium borat	A	A	A	B	A
Boric acid	A	A	A	A	A
Bromine	D	D	-	-	A
Bromine chloride	D	D	A	B	A
Bromoethylene/vinyl bromide	A	A	-	-	-
Butanol	A	A	D	A	A
Butyl acetat	A	A	B	-	D
Butyric acid	A	A	-	-	-
Calcium bisulfate	A	A	D	A	A
Calcium chloride	B	B	A	A	A
Calcium hydroxide	A	A	A	A	A
Calcium hypochlorite	B	C	A	C	A
Carbon disulfide	A	A	-	-	-
Carbon tetrachloride	A	A	D	C	A
Chloroacetic acid (Mono)	D	D	B	-	-
Chlorine (dry)	A	A	-	-	A
Chlorobenzene	A	A	D	D	A
Chlorosulfonic acid	B	C	D	D	C
Copper chloride	B	B	A	A	A
Copper nitrate	A	A	-	-	-
Copper sulfate	A	A	A	A	A
Ether	A	A	-	-	-
Ethyl chloride	A	A	A	A	A
Fatty acid	A	A	D	B	A
Fluorine (dry)	A	A	-	-	-
Hydrofluoric acid	D	D	B	D	A
Formaldehyde	A	A	A	B	A
Formic acid	A	A	A	B	C
Furfural	A	A	B	D	D
Gallic acid	A	A	B	B	A
Hydrobromic acid	D	D	A	D	A
Hydrochloric acid	D	D	A	D	A
Hydrogen peroxide	A	A	C	D	B
Iodine (wet)	D	D	-	-	-
Kloroform	B	B	D	D	A
Lead acetate	A	A	A	B	-
Magnesium chloride	B	B	A	A	A

VALUES TO BE REGARDED AS FOR GUIDANCE ONLY

A = Very good service to operating limit of material B = Moderate service C = Limited or variable service D = Unsatisfactory	AISI 316 L Stainless	AISI 304 Stainless	EPDM	NBR	FPM
Magnesium sulfate	A	A	A	A	A
Mercury	A	A	A	A	A
Methanol	A	A	A	A	C
Methyl chloride	A	A	C	D	A
Methylene chloride	B	B	D	D	B
Natphalene	A	A	D	D	A
Nickel chloride	B	B	A	A	A
Nickel sulfate	A	A	A	A	A
Nitric acid	C	C	C	D	A
Oxalic acid	C	C	A	B	A
Perchloric acid	D	D	B	-	A
Phosphoric acid	A	A	B	D	A
Picric acid	A	A	B	B	A
Potassium bromide	A	A	-	-	-
Potassium carbonate	A	A	-	-	-
Potassium chlorate	A	A	-	-	-
Potassium cyanide	A	A	A	A	A
Potassium hydroxide	A	A	A	B	B
Potassium nitrate	A	A	A	A	A
Potassium permanganate	A	A	-	-	-
Potassium sulfate	A	A	A	A	A
Potassium sulfide	A	A	-	-	-
Potassium chloride	B	B	A	A	A
Prophylene dichloride	A	A	-	-	-
Silver nitrate	A	A	A	B	A
Soda (ash)/sodium	A	A	-	-	-
Sodium acetate	A	A	A	B	D
Sodium bicarbonate	A	A	A	A	A
Sodium bisulfate	A	C	-	-	-
Sodium bisulfite	A	A	A	A	A
Sodium bromide	B	B	-	-	-
Sodium chlorate	A	A	-	-	-
Sodium chloride	D	D	-	-	-
Sodium cyanide	A	A	A	A	A
Sodium fluoride	A	A	-	-	-
Sodium hydroxide	A	A	A	B	B
Sodium hypoklorite	D	D	B	B	A
Sodium nitrate	A	A	A	B	-
Sodium sulfate	A	A	A	A	A
Sodium sulfide	A	A	-	-	-
Sodium sulfite	A	A	-	-	-
Stannous chloride/tin chloride	B	C	B	A	A
Sulfur	A	A	A	D	A
Sulfur chloride	A	A	D	C	A
Sulfur dioxide	A	B	A	D	A
Sulfuric acid	D	D	B	D	A
Sulfurous acid	A	C	B	B	A
Thionyl chloride	A	A	D	-	A
Toluene/toluol	A	A	D	D	A
Trichloroethylene	A	A	D	C	A
Turpentine	A	A	D	A	A
Xylene/xylol	A	A	-	-	-
Zinc sulfate	A	A	-	-	-

VALUES TO BE REGARDED AS FOR GUIDANCE ONLY

Assumptions: 20°C room temperature

References

Corrosion Data Survey, 1969 Edition, Nace
 Corrosion Tables, Stainless Steels, 1979, Jernkontoret
 Chemical Resistance of Plastic Piping Materials, Cabot Corporation, 1979

PLEASE NOTE!

Concentration level, length of exposure, temperature and in particular the combination of several chemicals have a direct influence on the resistance of stainless steel to certain chemicals.
 Each application should therefore be carefully reviewed to determine the suitability of stainless steel.

In particular, be careful with the use of hydrous cleaning agents containing compounds of chlorine.

Material properties of rubber seals

Rubber types

International designation	EPDM	NBR	FPM
Rubber type	Ethylene propene	Nitrile	Fluorine (Viton)
Nominal hardness IRHD	60 (+/-5)	60 (+/-5)	60(+/-5)
Colour	Black	Black/yellow dot	Purple (New: green)
Tensile strength MPa	≥ 10 N/mm ²	≥ 10 N/mm ²	≥ 8 N/mm ²
Elongation after fracture %	≥ 300%	≥ 300%	≥ 260%
Max. temperatur range	-35/+100° C	-30/+80° C	-25/+200° C

Resistance

Wearability	B	B	B
Resistance to mineral oil	D	A	A
Resistance to vegetable oil	B	A	A
Resistance to benzene/petrol	D	A	A
Resistance to aromatic compounds and hydrocarbons	D	B	A
Resistance to ketones	A	D	D
Resistance to ordinary diluted acids and alkalines	A	A	A
Resistance to ozone and weather stresses	A	C	A
Resistance to air diffusion	D	C	A

A = Very good service - B = Moderate service - C = Limited or variable service - D = Unsatisfactory

A lip sealing ring constitutes the seal between socket and spigot end. The lip sealing ring ensures quick and efficient jointing of the pipe system while providing a tight seal in case of both pressure and vacuum. BLÜCHER® sealing rings are available in three different rubber qualities.

EPDM This sealing ring is black and made of ethylene propene rubber. This is BLÜCHER's standard sealing ring and it is suitable for all rainwater and waste water installations where there is no oil or no petrol residues in the waste water. The EPDM lip seal is a good all-round rubber quality suitable for a wide range of applications.

NBR This sealing ring is black with a yellow spot and made from nitrile rubber and is the sealing ring to be used where there are petrol or oil residues on the waste water (e.g. in connection with oil and petrol separators at service stations, garages etc.). The NBR lip seal should not be used where there is a risk of temperatures above 80°C. NBR is not resistant to solvents.

FPM

This sealing ring is purple (New: green) and made from fluorine rubber (Viton®).

This is BLÜCHER's sealing ring for special applications. The material is particularly heat-resistant and resistant to oil, solvents and strong acids. However, the FPM seal has only limited resistance to e.g. butyl acetate, acetone and methyl alcohol.

For advice regarding the suitability of the different rubber qualities, consult BLÜCHER.



Approvals

BLÜCHER has own testing facilities and cooperates with internationally recognized independent institutes. At BLÜCHER we also play an active part in setting international standards.

The functionality of our products has been documented by test reports and approvals from international institutes such as Sitac (SE), LGA (DE), BBA (UK), VTT (FI), ETA (DK) etc.

All pipes and channels are CE marked.

For a complete list of all current product approvals we refer to www.blucher.co.uk.

Furhermore, we use approved institutes for fire and sound testing, for instance DTI (DK) and Fraunhofer Institut (DE)

All production is carried out in Denmark in accordance with ISO 9001.

Maintenance

BLÜCHER stainless steel drainage products require only a minimum of maintenance.

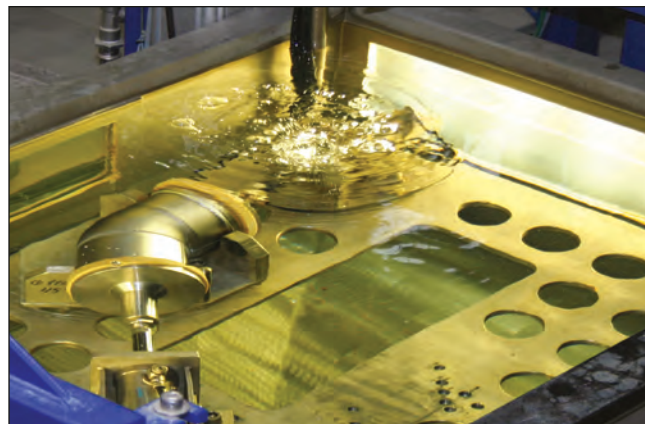
The smooth, acid-pickled surface retains its uniform matt silver finish in most environments such as wet rooms, bathrooms and kitchens. However, in particularly demanding environments such as the food industry, laboratories, the chemical industry and agriculture, it may be necessary to clean the installation to avoid formation of coatings which can cause subsequent corrosion.

Cleaning can for instance be done by means of high pressure flushing. In some cases it may be necessary to use diluted citric acid. After use take care to rinse with plenty of water.

Please also notice that particularly aggressive and hazardous substances should be collected in containers and disposed of in another way and not through the drainage system.

Production

Excellent workmanship, common sense and the most sophisticated production technology are combined to ensure the highest quality in our products.



All BLÜCHER® products are tested for leakages before leaving the factory



The most modern piping machinery in Europe

Installation videos at www.blucher.co.uk

As a supplement to the printed installation instructions for the BLÜCHER® products, installation videos are available at www.blucher.co.uk (select the tab "Installation"). These comprise, among others:

BLÜCHER® EuroPipe

Introduction to use and applications



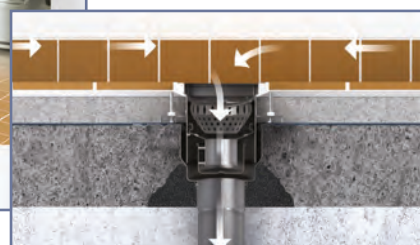
BLÜCHER® Drain Domestic

Light-duty shower drains



BLÜCHER® Drain Industrial

Heavy-duty floor drains



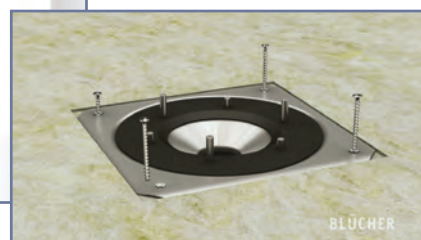
BLÜCHER® Channel

Linear drainage



BLÜCHER® Roof Drainage System

Introduction to use and installation instructions



Pipes and fittings for commercial and industrial applications



BLÜCHER® EuroPipe

- Above or below ground

Details

- Standard dimensions Ø40 - Ø315mm
- Standard lengths 0.15 - 6 metres
- Extensive range of fittings
- Stainless steel AISI304/EN 1.4301 or AISI316L/EN 1.4404

Benefits

- Push-fit system
- Lightweight
- Fire resistant

Variants

- Range of sealing rings for various applications
- EPDM
- FPM (Viton)
- NBR

bimready
files at bimstore.co.uk

The BLÜCHER® EuroPipe push-fit drainage pipework system provides an easy to use alternative type of drainage pipework and rainwater pipework for all applications, e.g. commercial buildings, food factories and laboratories.

In sizes 40 mm, 50 mm, 75 mm, 82 mm, 110 mm, 125 mm, 160 mm, 200 mm, 250 mm and 315 mm. BLÜCHER® EuroPipe is lightweight, versatile, aesthetically pleasing and economical. Combined labour and material savings can be considerable when compared with traditional pipe systems.



Specification

Stainless steel BLÜCHER® EUROPIPE push-fit pipework and fittings manufactured to BS EN 1124 Pt 1 & 2 and having BBA certificate 86/1751, 40, 50, 75, 82, 110, 125, 160, 200, 250 mm and 315 mm diameter as supplied by:

BLÜCHER UK Ltd
Station Road Industrial Estate
Tadcaster, North Yorkshire LS24 9SG
Telephone: 01937 838000

■ Application

The BLÜCHER® EuroPipe push-fit waste pipework system is suitable for the drainage of:

- a) soil and waste water
- b) rain water
- c) process waste water

Waste liquids of varying corrosive composition are discharged in chemical, pharmaceutical and food processing industries, also laboratories and catering establishments. Depending on their composition and temperature, these substances may cause unpredictable damage to traditional pipe materials. Pipes for discharging these substances must be manufactured from a material which is resistant to them. Stainless steel BLÜCHER® EuroPipe with EPDM sealing rings is suitable for most applications and can be used in both above ground and below ground situations.

■ Materials

Stainless steel is a clean, durable, corrosion resistant and long lasting material ideally suited for buildings with a design life expectancy of over fifty years. All stainless steels have inherent corrosion resistance but the austenitic group have greater resistance.

BLÜCHER products are manufactured from high grade austenitic stainless steel in grades AISI 304, suitable for most environments and AISI 316L suitable for corrosive environments such as marine installations or other aggressive locations

If AISI 316L is required add suffix S to type no.

Sealing rings to BS 2494: 1986 (Materials for elastomeric joints for pipework and pipelines), are moulded from EPDM synthetic rubber and are specially designed for the BLÜCHER® EuroPipe ring groove.

Working temperature range for EPDM sealing rings is -40° to +100° C.

Special sealing rings are available if required e.g. FPM (Viton). For advice regarding the suitability of elastomeric sealing rings in chemical environments consult our Technical Department.

■ Finish

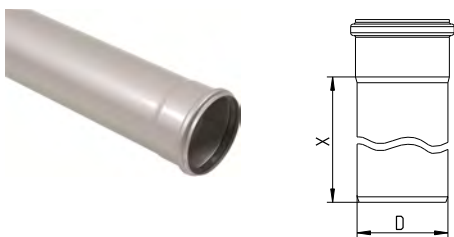
All pipes and fittings are chemically descaled (acid pickled) in order to enhance the natural corrosion resistance and provide a uniform aesthetically pleasing matte silver finish. Enhanced finishes can be provided if required (electro polished, powder coated etc.) at extra cost.



Standard pickle finish Brush polish finish Bright polish finish Powder coated

For a complete range of BLÜCHER drainage products please visit our web site at www.blucher.co.uk
Any non standard fittings or special fabrications can be made on request

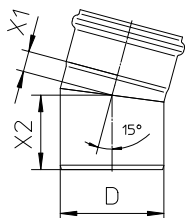
STRAIGHT PIPE WITH ONE SOCKET TYPE 811



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811.050.040	5705499412673	40	500	0,60	811.050.050	5705499400366	50	500	0,68
811.100.040	5705499412710	40	1000	1,02	811.100.050	5705499400526	50	1000	1,25
811.200.040	5705499412758	40	2000	1,99	811.200.050	5705499400687	50	2000	2,45
811.300.040	5705499412772	40	3000	2,96	811.300.050	5705499400762	50	3000	3,82
					811.400.050	5705499400854	50	4000	5,06
					811.600.050	5705499401011	50	6000	7,56
811.015.075	5705499400229	75	150	0,41	811.015.082	5705499411591	82	150	0,44
811.025.075	5705499400304	75	250	0,58	811.025.082	5705499411614	82	250	0,64
811.050.075	5705499400380	75	500	1,00	811.050.082	5705499411638	82	500	1,14
811.100.075	5705499400540	75	1000	1,95	811.100.082	5705499411676	82	1000	2,15
811.200.075	5705499400700	75	2000	3,70	811.200.082	5705499411713	82	2000	4,17
811.300.075	5705499400793	75	3000	5,78	811.300.082	5705499411737	82	3000	6,20
811.400.075	5705499400878	75	4000	7,66	811.400.082	5705499411751	82	4000	8,22
811.600.075	5705499401035	75	6000	11,42	811.600.082	5705499411799	82	6000	12,26
811.015.110	5705499400243	110	150	0,61	811.015.125	5705499410839	125	150	0,70
811.025.110	5705499400328	110	250	0,87	811.025.125	5705499408218	125	250	1,01
811.050.110	5705499400403	110	500	1,50	811.050.125	5705499408232	125	500	1,78
811.100.110	5705499400564	110	1000	2,85	811.100.125	5705499408263	125	1000	3,32
811.200.110	5705499400724	110	2000	5,40	811.200.125	5705499408300	125	2000	6,40
811.300.110	5705499400816	110	3000	8,34	811.300.125	5705499410907	125	3000	9,47
811.400.110	5705499400892	110	4000	11,26	811.400.125	5705499410914	125	4000	12,55
811.600.110	5705499401059	110	6000	16,78	811.600.125	5705499410952	125	6000	18,71
811.015.160	5705499400267	160	150	1,19	811.015.200	5705499412291	200	150	1,96
811.025.160	5705499400342	160	250	1,69	811.025.200	5705499412307	200	250	2,77
811.050.160	5705499400427	160	500	2,96	811.050.200	5705499412314	200	500	4,62
811.100.160	5705499400588	160	1000	5,48	811.100.200	5705499412338	200	1000	8,32
811.200.160	5705499400748	160	2000	10,54	811.200.200	5705499412345	200	2000	15,71
811.300.160	5705499400830	160	3000	15,59	811.300.200	5705499412352	200	3000	23,10
811.400.160	5705499400915	160	4000	20,64					
811.600.160	5705499401073	160	6000	30,74					
811.050.250	5705499121735	250	500	5,84	811.050.315 S	5705499413748	315	500	9,93
811.100.250	5705499121742	250	1000	10,47	811.100.315 S	5705499413762	315	1000	17,70
811.200.250	5705499121759	250	2000	19,72	811.200.315 S	5705499413786	315	2000	33,24
811.300.250	5705499121766	250	3000	28,97	811.300.315 S	5705499413809	315	3000	48,77

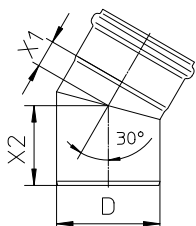
Bends

BEND 15° TYPE 820.015



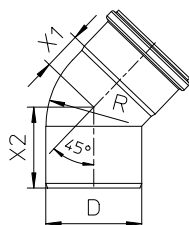
Type no.	EAN no.	D	X1	X2	Kg
820.015.040	5705499412857	40	15	53	0,12
820.015.050	5705499401127	50	19	53	0,15
820.015.075	5705499401141	75	21	65	0,28
820.015.082	5705499411812	82	17	64	0,30
820.015.110	5705499401165	110	25	78	0,47
820.015.125	5705499408607	125	19	84	0,56
820.015.160	5705499401189	160	29	99	1,08
820.015.200 S	5705499410976	200	31	123	1,99
820.015.250 S	5705499121599	250	38	136	3,03
820.015.315 S	5705499413816	315	46	151	5,50

BEND 30° TYPE 820.030



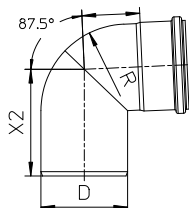
Type no.	EAN no.	D	X1	X2	Kg
820.030.040	5705499412871	40	18	55	0,13
820.030.050	5705499401226	50	23	57	0,16
820.030.075	5705499401240	75	25	70	0,28
820.030.082	5705499411836	82	23	70	0,32
820.030.110	5705499401264	110	33	86	0,51
820.030.125	5705499408652	125	28	98	0,63
820.030.160	5705499401288	160	40	110	1,19
820.030.200 S	5705499410983	200	45	137	2,20
820.030.250 S	5705499121605	250	56	153	3,35
820.030.315 S	5705499413823	315	68	172	6,18

BEND 45° TYPE 820.045



Type no.	EAN no.	D	X1	X2	R	Kg
820.045.040	5705499412895	40	21	58	40	0,13
820.045.050	5705499401301	50	27	60	50	0,17
820.045.075	5705499401325	75	34	76	75	0,30
820.045.082	5705499411850	82	30	80	82	0,34
820.045.110	5705499401349	110	43	93	110	0,56
820.045.125	5705499408676	125	58	111	125	0,73
820.045.160	5705499401363	160	57	128	172	1,55
820.045.200 S	5705499414011	200	61	151	200	2,38
820.045.250 S	5705499414028	250	77	177	250	3,69

BEND 87.5° TYPE 820.090

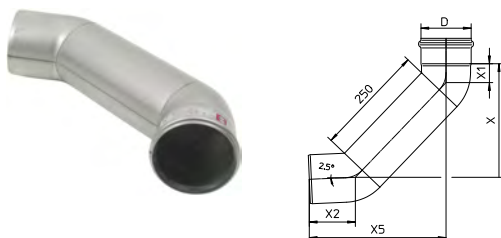


Type no.	EAN no.	D	X1	X2	R	Kg
820.090.040	5705499412918	40	32	79	40	0,16
820.090.050	5705499401387	50	41	87	50	0,21
820.090.075	5705499401400	75	54	108	75	0,39
820.090.082	5705499411874	82	53	109	82	0,43
820.090.110	5705499401424	110	74	136	110	0,67
820.090.125	5705499408720	125	93	161	125	1,68
820.090.160	5705499401448	160	103	184	171	2,10
820.090.200 S	5705499414042	200	116	216	200	3,00
820.090.250 S	5705499414059	250	145	269	250	4,77

Please notice for the land based UK market:
To comply with BS EN 12056 Gravity Drainage inside Buildings use 821 bend at offsets and base of stack.

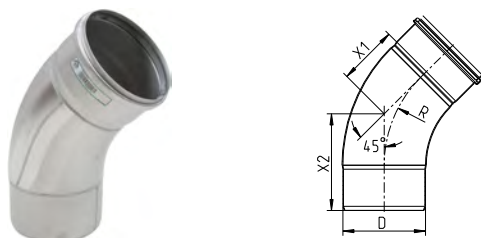
Bends

BEND, LONG RADIUS 87.5°, 250 MM TYPE 821.090



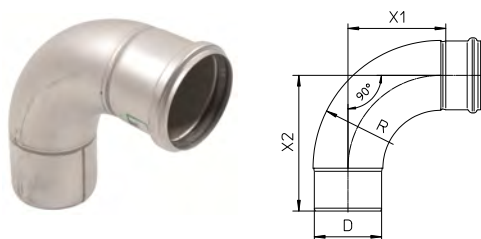
Type no.	EAN no.	D	X	X1	X2	X5	Kg
821.090.050	5705499408751	50	221	26	72	259	0,50
821.090.075	5705499408775	75	234	32	87	280	0,90
821.090.110	5705499401462	110	255	42	103	307	1,61
821.090.125	5705499412178	125	275	58	126	335	1,72
821.090.160	5705499401486	160	285	56	137	356	3,25

BEND, LARGE RADIUS 45° TYPE 825.045



Type no.	EAN no.	D	X1	X2	R	Kg
825.045.200 S	5705499410990	200	144	234	300	4,18
825.045.250 S	5705499121612	250	187	280	375	6,53
825.045.315 S	5705499413830	315	204	320	400	10,78

BEND, LARGE RADIUS 87.5° TYPE 825.090

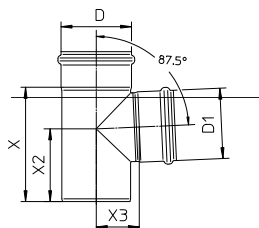


Type no.	EAN no.	D	X1	X2	R	Kg
825.090.050 S	5705499408843	50	77	125	97	0,65
825.090.075 S	5705499408850	75	104	155	133	1,00
825.090.110 S	5705499408867	110	160	222	209	1,41
825.090.160 S	5705499408874	160	244	322	313	2,99
825.090.200 S	5705499411423	200	307	397	300	6,41
825.090.250 S	5705499121629	250	391	484	375	9,88
825.090.315 S	5705499413847	315	421	538	400	15,78

Please notice for the land based UK market:
To comply with BS EN 12056 Gravity Drainage inside Buildings use 821 bend at offsets and base of stack.

Branches

BRANCH 87.5° TYPE 830

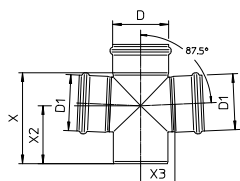


Type no.	EAN no.	D	D1	X	X2	X3	Kg
830.040.040	5705499412932	40	40	101	69	30	0,22
830.040.050	5705499412956	50	40	106	71	35	0,26
830.050.050	5705499401608	50	50	106	71	35	0,27
830.050.075	5705499401622	75	50	139	98	49	0,44
830.050.082	5705499411928	82	50	128	86	52	0,47
830.050.110	5705499401646	110	50	132	93	66	0,64
830.050.160	5705499401660	160	50	158	109	88	2,40
830.075.075	5705499401684	75	75	139	90	52	0,50
830.075.082	5705499411942	82	75	154	99	55	0,57
830.075.110	5705499401707	110	75	152	104	69	0,76
830.075.125	5705499408942	125	75	187	110	77	0,94
830.075.160	5705499412550	160	75	179	121	95	1,46
830.082.082	5705499411966	82	82	162	103	56	0,61
830.110.110	5705499401721	110	110	183	117	69	0,88
830.110.125	5705499408973	125	110	205	127	77	1,25
830.110.160	5705499401745	160	110	236	152	93	1,84
830.125.125	5705499409000	125	125	220	135	82	1,17
830.160.160	5705499401769	160	160	288	184	104	2,40
830.160.200 S	5705499411003	200	160	293	186	125	3,45
830.200.200 S	5705499411010	200	200	333	206	128	4,17
830.200.250 S	5705499121636	250	200	352	220	155	5,50
830.250.250 S	5705499121643	250	250	407	245	152	6,53
830.250.315 S	5705499413854	315	250	416	253	189	9,95
830.315.315 S	5705499413861	315	315	481	286	196	12,22

Please notice for the land based UK market:

To comply with BS EN 12056 Gravity Drainage inside Buildings, when using non reducing branch consider branch type 838, 848 or 839

DOUBLE BRANCH 87.5° TYPE 831

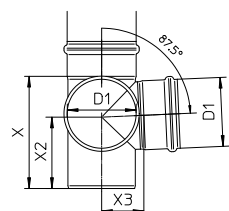


Type no.	EAN no.	D	D1	X	X2	X3	Kg
831.050.050	5705499401783	50	50	106	71	35	0,36
831.050.075	5705499401806	75	50	139	98	49	0,54
831.050.110	5705499401820	110	50	132	93	66	0,72
831.050.160	5705499412567	160	50	158	109	88	1,38
831.075.075	5705499401844	75	75	139	90	52	0,66
831.075.110	5705499401868	110	75	152	104	69	0,89
831.110.110	5705499401882	110	110	183	116	69	1,14
831.110.160	5705499401905	160	110	236	152	94	2,05
831.160.160	5705499401929	160	160	288	184	104	2,91

Please notice for the land based UK market:

To comply with BS EN 12056 Gravity Drainage inside Buildings, when using non reducing branch consider branch type 836.

DOUBLE BRANCH 87.5° TYPE 832



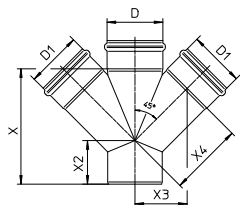
Type no.	EAN no.	D	D1	X	X2	X3	Kg
832.050.050	5705499401943	50	50	106	71	35	0,36
832.050.075	5705499401967	75	50	139	98	49	0,54
832.050.110	5705499401981	110	50	132	93	66	0,72
832.075.075	5705499402001	75	75	139	90	52	0,66
832.075.110	5705499402025	110	75	152	104	69	0,89
832.110.110	5705499402049	110	110	183	116	69	1,14
832.110.160	5705499402063	160	110	236	152	94	2,05
832.160.160	5705499402087	160	160	288	184	104	2,91

Please notice for the land based UK market:

To comply with BS EN 12056 Gravity Drainage inside Buildings, when using non reducing branch consider branch type 837.

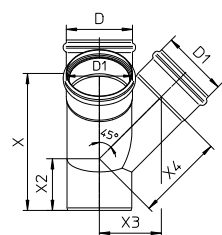
Branches

DOUBLE BRANCH 45° TYPE 836



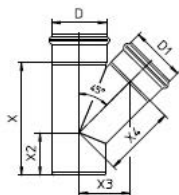
Type no.	EAN no.	D	D1	X	X2	X3	X4	Kg
836.050.050 S	5705499402117	50	50	128	57	54	76	0,59
836.050.075 S	5705499402131	75	50	144	56	66	94	0,69
836.050.110 S	5705499402155	110	50	147	42	84	119	0,80
836.075.075 S	5705499402179	75	75	183	74	78	110	1,15
836.075.110 S	5705499402193	110	75	182	60	95	135	1,31
836.110.110 S	5705499402216	110	110	233	88	105	149	2,10
836.110.125 S	5705499412574	125	110	250	90	110	155	1,65
836.110.160 S	5705499402223	160	110	258	80	131	186	2,85
836.125.125 S	5705499412581	125	125	273	103	120	170	2,10
836.160.160 S	5705499402230	160	160	331	120	156	221	5,28
836.200.200 S	5705499412598	200	200	415	151	194	274	5,28
836.250.250 S	5705499412604	250	250	512	177	236	334	7,01

DOUBLE BRANCH 45° TYPE 837



Type no.	EAN no.	D	D1	X	X2	X3	X4	Kg
837.050.050 S	5705499402254	50	50	128	57	54	76	0,49
837.050.075 S	5705499402278	75	50	144	56	66	94	0,67
837.050.110 S	5705499402285	110	50	147	42	84	119	0,92
837.075.075 S	5705499402292	75	75	183	74	78	110	1,43
837.075.110 S	5705499402308	110	75	182	60	95	135	1,31
837.110.110 S	5705499402322	110	110	233	88	105	149	2,07
837.110.160 S	5705499402339	160	110	258	80	131	186	2,07
837.160.160 S	5705499402346	160	160	331	120	156	221	4,02

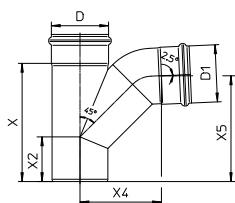
OBLIQUE BRANCH 45° TYPE 838



Type no.	EAN no.	D	D1	X	X2	X3	X4	Kg
838.040.040	5705499412994	40	40	118	58	45	63	0,25
838.040.050	5705499413014	50	40	119	55	50	71	0,30
838.050.050	5705499402353	50	50	133	62	54	76	0,32
838.050.075	5705499402377	75	50	144	56	66	94	0,48
838.050.082	5705499411980	82	50	149	57	72	102	0,54
838.050.110	5705499402391	110	50	147	42	84	119	0,70
838.075.075	5705499402414	75	75	183	78	78	110	0,64
838.075.082	5705499412000	82	75	185	75	81	114	0,70
838.075.110	5705499402438	110	75	181	60	95	135	0,88
838.075.125	5705499409314	125	75	200	65	100	141	1,32
838.082.082	5705499412024	82	82	195	80	83	118	0,75
838.110.110	5705499402452	110	110	236	91	105	149	1,16
838.110.125	5705499409338	125	110	250	90	110	155	1,50
838.110.160	5705499402476	160	110	258	80	131	186	2,11
838.125.125	5705499409352	125	125	273	103	120	170	1,49
838.160.160	5705499402490	160	160	331	120	156	220	3,04
838.160.200 S	5705499411027	200	160	359	123	177	250	4,37
838.200.200 S	5705499411034	200	200	415	151	194	274	5,47
838.200.250 S	5705499121650	250	200	432	142	217	307	6,61
838.250.250 S	5705499121667	250	250	512	177	236	334	8,57
838.250.315 S	5705499413878	315	250	518	154	270	416	12,48
838.315.315 S	5705499413885	315	315	621	200	294	382	16,53

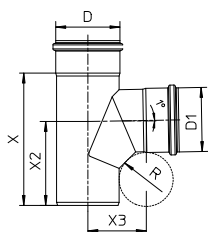
Branches

SWEPT BRANCH 87.5° TYPE 839



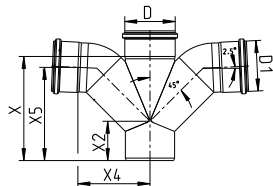
Type no.	EAN no.	D	D1	X	X2	X4	X5	Kg
839.050.050	5705499402513	50	50	133	62	84	121	0,44
839.050.075	5705499402537	75	50	144	56	97	128	0,60
839.050.110	5705499402551	110	50	147	42	115	132	0,81
839.075.075	5705499402575	75	75	183	78	114	160	0,87
839.075.110	5705499402599	110	75	182	60	130	160	1,11
839.110.110	5705499402612	110	110	236	91	161	212	1,64
839.110.160	5705499402636	160	110	258	80	186	227	2,53
839.160.160	5705499402650	160	160	331	120	223	298	4,52
839.200.200 S	5705499412611	200	200	415	151	428	434	6,13
839.250.250 S	5705499412628	250	250	512	177	535	525	9,67

SWEPT BRANCH 89° TYPE 848



Type no.	EAN no.	D	D1	X	X2	X3	R	Kg
848.050.050 AS	5705499409635	50	50	128	88	57	25	0,43
848.050.075 AS	5705499409642	75	50	144	97	69	25	0,59
848.050.110 AS	5705499409659	110	50	152	105	87	25	0,70
848.075.075 AS	5705499409666	75	75	179	125	83	50	0,83
848.075.110 AS	5705499409673	110	75	182	110	85	25	0,85
848.110.110 AS	5705499409680	110	110	233	148	101	50	1,50
848.110.160 AS	5705499409697	160	110	234	154	114	25	1,50
848.160.160 AS	5705499409703	160	160	286	189	127	50	2,02

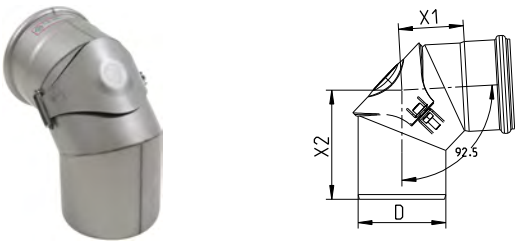
DOUBLE SWEPT BRANCH TYPE 879



Type no.	EAN no.	D	D1	X	X2	X4	X5	Kg
879.110.110 S	5705499403916	110	110	233	88	161	208	1,80

Access pipes and bends

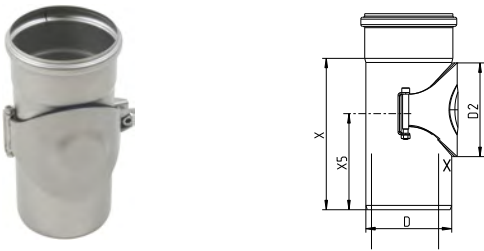
BEND 87.5° WITH ACCESS TYPE 822



Type no.	EAN no.	D	X1	X2	Kg
822.090.075	5705499401509	75	57	102	0,61
822.090.110	5705499401523	110	81	137	0,97
822.090.160	5705499401547	160	112	205	1,97

For non pressurized system

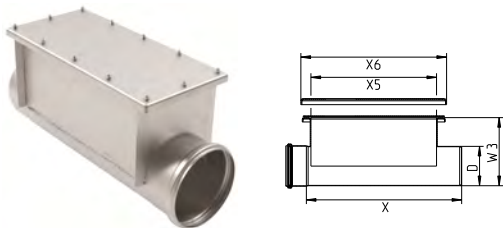
PIPE WITH ACCESS TYPE 840



Type no.	EAN no.	D	D2	X	X5	Kg
840.075.075	5705499402674	75	80	139	92	0,64
840.110.110	5705499403794	110	120	194	123	0,90
840.111.110	5705499402698	110	120	253	187	1,16
840.125.125 S	5705499411058	125	120	195	128	1,28
840.160.160	5705499402711	160	120	277	208	2,41
840.200.200 S	5705499412215	200	120	288	208	3,45

For non pressurized system

PIPE WITH ACCESS TYPE 840.000

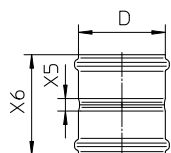


Type no.	EAN no.	D	W3	X	X5	X6	Kg
840.000.110 S	5705499127553	110	190	433	350	406	6,67
840.000.160 S	5705499127560	160	265	499	400	456	8,25
840.000.200 S	5705499127577	200	330	618	500	556	13,15
840.000.250 S	5705499127584	250	405	742	600	656	18,93

For below ground

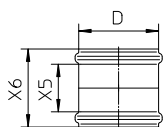
Sockets

DOUBLE COUPLING TYPE 841



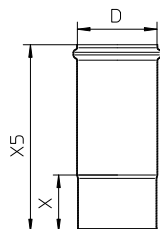
Type no.	EAN no.	D	X5	X6	Kg
841.040.040	5705499413038	40	20	104	0,13
841.050.050	5705499402735	50	13	97	0,15
841.075.075	5705499402759	75	20	120	0,26
841.082.082 S	5705499412048	82	20	124	0,31
841.110.110	5705499402773	110	16	130	0,45
841.125.125	5705499409475	125	20	140	0,54
841.160.160	5705499402797	160	20	162	1,05
841.200.200 S	5705499411065	200	20	200	1,85
841.250.250 S	5705499121674	250	30	246	3,11
841.315.315 S	5705499413908	315	30	262	5,36

DOUBLE SLIP COUPLING TYPE 842



Type no.	EAN no.	D	X5	X6	Kg
842.040.040 S	5705499413069	40	76	104	0,13
842.050.050 S	5705499402810	50	71	97	0,12
842.075.075 S	5705499402827	75	91	120	0,21
842.082.082 S	5705499412055	82	95	124	0,31
842.110.110 S	5705499402834	110	97	130	0,45
842.125.125 S	5705499409550	125	104	140	0,47
842.160.160 S	5705499402841	160	118	162	1,05
842.200.200 S	5705499411072	200	147	200	1,82
842.250.250 S	5705499121681	250	173	264	3,11
842.315.315 S	5705499413915	315	177	262	5,36

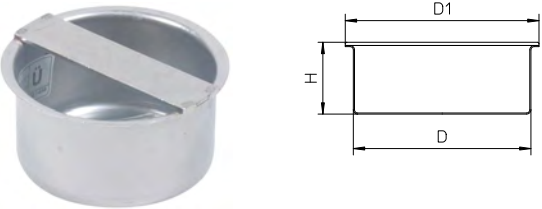
EXPANSION SOCKET, LONG MODEL TYPE 869



Type no.	EAN no.	D	X	X5	Kg
869.143.050	5705499410617	50	57	200	0,25
869.163.075	5705499410631	75	62	225	0,40
869.170.082	5705499121339	82	70	240	0,54
869.181.110	5705499410655	110	79	260	0,70
869.200.125	5705499412192	125	100	300	0,99
869.238.160	5705499410679	160	122	360	1,85
869.300.200 S	5705499121353	200	120	420	2,43

Plugs

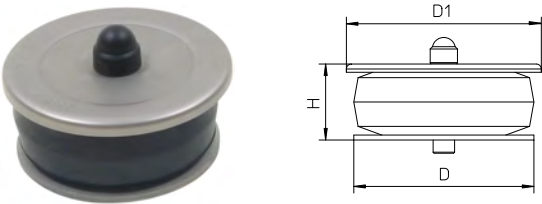
SOCKET PLUG TYPE 844.000



Type no.	EAN no.	D	D1	H.
844.000.040 S	5705499413175	40	50	47
844.000.050 S	5705499402933	50	58	50
844.000.075 S	5705499402940	75	85	45
844.000.110 S	5705499402957	110	120	45
844.000.125 S	5705499412222	125	135	43
844.000.160 S	5705499402964	160	170	45
844.000.200 S	5705499412239	200	210	50
844.000.250 S	5705499123654	250	265	65
844.000.315 S	5705499413922	315	335	82

Use of pipe joint clamp type 847 is necessary if any pressure in the pipe system is expected.

SOCKET PLUG TYPE 844.100

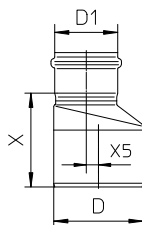


Type no.	EAN no.	D	D1	H.
844.100.050 S	5705499411393	50	59	31
844.100.075 S	5705499411409	75	83	36
844.100.082 S	5705499412109	82	90	36
844.100.110 S	5705499411416	110	118	36

Use of pipe joint clamp type 847 is recommended if the pressure in the pipe system is expected to exceed 0.5 bar for D<110mm and 0.3 bar for D=110mm.

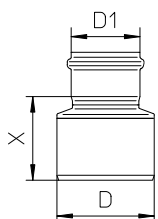
Increasesers and reducers

INCREASER ECCENTRIC TYPE 850



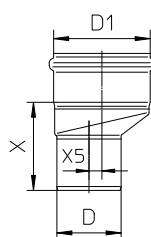
Type no.	EAN no.	D	D1	X	X5	Kg
850.040.050 S	5705499413397	50	40	85	5	0,16
850.050.075	5705499403084	75	50	87	7	0,22
850.050.082 S	5705499412062	82	50	97	14	0,25
850.050.110	5705499403107	110	50	114	25	0,38
850.075.110	5705499403138	110	75	116	15	0,42
850.075.160	5705499403169	160	75	178	37	1,20
850.082.110 S	5705499412086	110	82	111	11	0,43
850.110.125 S	5705499413410	125	110	109	8	0,49
850.110.160	5705499403206	160	110	140	22	1,06
850.125.160 S	5705499413427	160	125	138	18	0,95
850.160.200 S	5705499413434	200	160	165	20	1,67
850.200.250 S	5705499413441	250	200	195	25	2,57
850.200.315 S	5705499413953	315	200	280	58	4,61
850.250.315 S	5705499413977	315	250	242	33	4,82

INCREASER CONCENTRIC TYPE 850



Type no.	EAN no.	D	D1	X	Kg
850.040.050 CS	5705499413991	50	40	65	0,13
850.050.075 CS	5705499409734	75	50	82	0,20
850.050.110 CS	5705499408454	110	50	94	0,30
850.075.082 CS	5705499412079	82	75	96	0,29
850.075.110 C	5705499403145	110	75	95	0,37
850.082.110 CS	5705499412093	110	82	110	1,00
850.110.125 CS	5705499409758	125	110	103	0,52
850.110.160 CS	5705499408461	160	110	117	1,00
850.125.160 CS	5705499408478	160	125	145	1,00
850.160.200 CS	5705499411096	200	160	170	1,50
850.200.250 CS	57054994121698	250	200	176	1,98
850.200.315 CS	5705499413946	315	200	223	4,11
850.250.315 CS	5705499413960	315	250	180	3,74

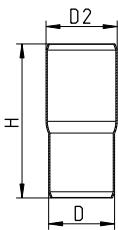
REDUCER ECCENTRIC TYPE 850



Type no.	EAN no.	D	D1	X	X5	Kg
850.050.040 S	5705499403961	40	50	77	5	0,10
850.075.050 S	5705499403121	50	75	80	7	0,28
850.110.050 S	5705499403183	50	110	99	25	0,50
850.110.075 S	5705499403190	75	110	104	15	0,55
850.110.082 S	5705499413342	82	110	101	11	0,29
850.125.110 S	5705499413359	110	125	96	8	1,00
850.160.110 S	5705499408485	110	160	123	22	1,08
850.160.125 S	5705499413366	125	160	136	18	0,50
850.200.160 S	5705499413373	160	200	153	20	1,77
850.250.200 S	5705499413380	200	250	192	25	1,00
850.315.250 S	5705499413984	250	315	229	33	4,93

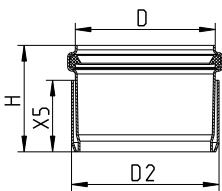
Adaptors to other materials

ADAPTOR FOR PVC PIPE TYPE 852



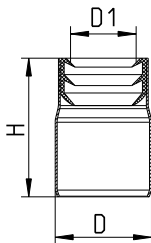
Type no.	EAN no.	D	H.	D2	Kg
852.050.054 S	5705499409772	50	117	54	0,12
852.075.082 S	5705499409796	75	123	82	0,24

ADAPTOR FOR PVC PIPE TYPE 852



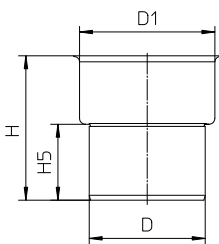
Type no.	EAN no.	D	H.	D2	X5	Kg
852.050.054 S0S	5705499409789	50	49	54	30	0,12
852.075.082 S0S	5705499409802	75	60	82	40	0,24

ADAPTOR FOR PVC PIPE TYPE 852



Type no.	EAN no.	D	D1	H.	Kg
852.075.052	5705499126709	75	52	108	0,31

ADAPTOR FOR CAST IRON PIPE TYPE 853



Type no.	EAN no.	D	D1	H.	H5.	Kg
853.093.075 S	5705499403251	75	93	125	66	0,24
853.127.110 S	5705499403268	110	127	141	76	0,38

Please order rubber insert type 803 separately

Plastic, copper or stainless steel



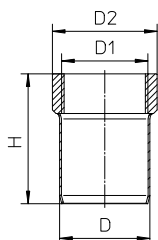
Reducer (rubber)
To 50 mm dia BLÜCHER® EuroPipe socket, enables nom. 1¼" or 1½" pipes to be push fit connected to 50 mm dia BLÜCHER® EuroPipe.

Nom. 1¼" Type No. W 58
Nom. 1½" Type No. W 59'

NOM 1¼" or 1½"

Adaptors

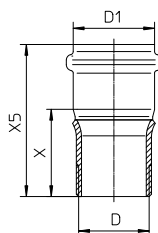
FEMALE ADAPTOR TYPE 885.0



Type no.	EAN no.	D	D1	H.	D2	Kg
885.032.040 S	5705499403954	40	1¼"	70	45	0,20
885.040.040 S	5705499403947	40	1½"	73	57	0,20
885.025.050 S	5705499403435	50	1"	93	40	0,18
885.032.050 S	5705499403459	50	1¼"	72	48	0,17
885.040.050 S	5705499403466	50	1½"	72	58	0,19
885.050.050 S	5705499403473	50	2"	77	67	0,22

BSP thread.

MALE ADAPTOR TYPE 886.0

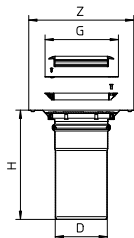


Type no.	EAN no.	D	D1	X	X5	Kg
886.050.032	5705499410693	1¼"	50	55	97	0,25
886.050.040 S	5705499403497	1½"	50	56	98	0,23
886.050.050 S	5705499403503	2"	50	56	98	0,27

BSP thread.

PENETRATION TYPE 865

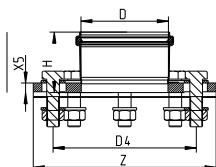
FOR VINYL FLOORS



Type no.	EAN no.	D	Z.	G	H.	Kg
865.155.110	5705499403411	110	Ø222	Ø155	231	1,24

UNIVERSAL FLANGE TYPE 854.500

WITH SOCKET



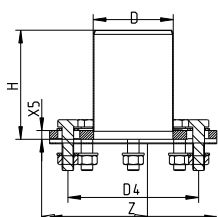
Type no.	EAN no.	D	Z.	H.	D4	X5	Kg
854.500.050 S	5705499138870	50	Ø160	58	94-126	10	0,85
854.500.075 S	5705499138894	75	Ø200	71	129-161	12	1,49
854.500.110 S	5705499138917	110	Ø230	76	163-192	12	2,16
854.500.125 S	5705499138931	125	Ø255	84	198-217	15	3,28
854.500.160 S	5705499138955	160	Ø285	102	228-244	15	3,72

Flanges with 4 screw joints (D=50-75mm)

Flanges with 8 screw joints (D=110-160mm)

UNIVERSAL FLANGE TYPE 854.510

WITH SPIGOT



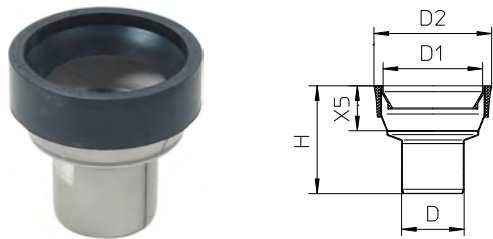
Type no.	EAN no.	D	Z.	H.	D4	X5	Kg
854.510.050 S	5705499138887	50	Ø160	150	94-126	10	0,95
854.510.075 S	5705499138900	75	Ø200	150	129-161	12	1,61
854.510.110 S	5705499138924	110	Ø230	150	163-192	12	2,32
854.510.125 S	5705499138948	125	Ø255	150	198-217	15	3,43
854.510.160 S	5705499138962	160	Ø285	150	228-244	15	3,72

Flanges with 4 screw joints (D=50-75mm)

Flanges with 8 screw joints (D=110-160mm)

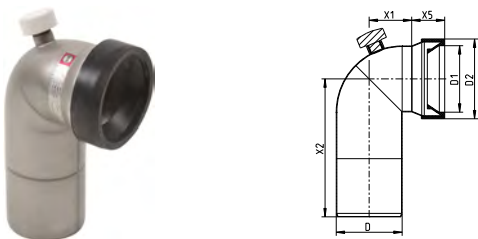
Toilet adaptors & Rat stops

TOILET ADAPTOR STRAIGHT TYPE 855.090



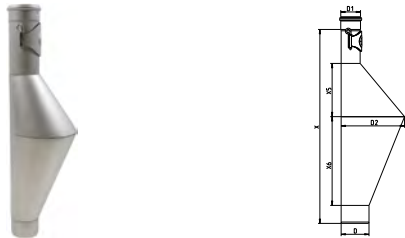
Type no.	EAN no.	D	D1	H	D2	X5	Kg
855.090.075 S	5705499403299	75	110	130	133	55	0,42
855.090.082 S	5705499412123	82	110	137	133	55	0,51
855.090.110 S	5705499403305	110	110	126	133	55	0,39

TOILET ADAPTOR 90° TYPE 857



Type no.	EAN no.	D	D1	D2	X1	X2	X5	Kg
857.090.110	5705499403336	110	110	133	71	230	55	1,33

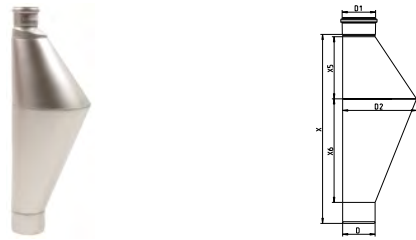
RAT STOP WITH ACCESS TYPE 891



Type no.	EAN no.	D	D1	D2	X	X5	X6	Kg
891.075.110	5705499413472	110	75	250	764	210	350	4,73
891.110.110	5705499413489	110	110	250	814	210	350	5,22
891.125.125	5705499413496	125	125	250	836	210	350	5,56

For non pressurized system

RAT STOP WITHOUT ACCESS TYPE 892

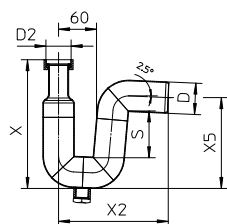


Type no.	EAN no.	D	D1	D2	X	X5	X6	Kg
892.075.110	5705499123425	110	75	250	678	210	350	4,34
892.110.110	5705499123432	110	110	250	640	210	350	4,32

Water traps

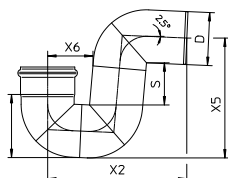
P-TRAP 87.5° TYPE 525

WITH COUPLING AND DRAIN PLUG



Type no.	EAN no.	D	S	D2	X	X2	X5	Kg
525.032.050 S	5705499114065	50	74	1¼"	205	175	145	0,95
525.040.050 S	5705499114072	50	74	1½"	205	175	145	0,90
525.050.050 S	5705499114089	50	74	2"	205	175	145	0,88

BSP thread.

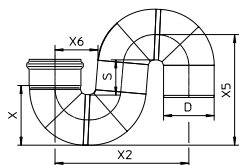
P-TRAP 87.5° TYPE 525.090

Type no.	EAN no.	D	S	X	X2	X5	X6	Kg
525.090.050 S	5705499101461	50	74	67	175	145	60	0,45
525.090.075 S	5705499101478	75	81	93	222	189	74	0,84
525.090.110 S	5705499101485	110	89	132	289	249	94	1,49
525.090.125 S	5705499117974	125	110	158	330	292	102	1,88
525.090.160 S	5705499101492	160	105	187	388	338	121	6,22

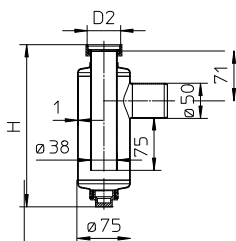
FLOW RATES FOR P-TRAP 87.5° TYPE 525.090

Type no.	EAN no.	Min Flow (l/s)	Max Flow (l/s)
525.090.050 S	5705499101461	0.7	1.7
525.090.075 S	5705499101478	2.5	3.7
525.090.110 S	5705499101485	3.4	10.4
525.090.125 S	5705499117974	4.4	15.0
525.090.160 S	5705499101492	7.5	28.5

Accurate flow rate depending on installation.

S-TRAP 180° TYPE 525.180

Type no.	EAN no.	D	S	X	X2	X5	X6	Kg
525.180.050 S	5705499114096	50	74	67	166	145	60	0,54
525.180.075 S	5705499114102	75	81	93	217	190	74	1,00
525.180.110 S	5705499114119	110	89	132	292	249	94	2,00
525.180.160 S	5705499114126	160	105	187	394	342	122	4,40

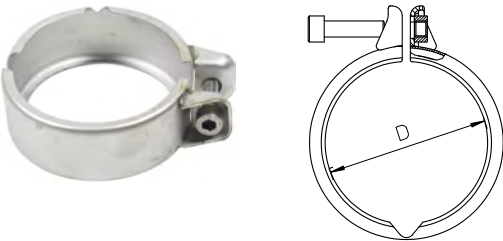
BOTTLE WATER TRAP TYPE 505

Type no.	EAN no.	H	D2	Kg
505.032.050 S	5705499101447	250	1¼"	0,95
505.040.050 S	5705499101454	233	1½"	0,85
505.050.050 S	5705499114058	243	2"	1,20

75 mm water seal. BSP thread.

Clamps

PIPE JOINT CLAMP TYPE 847



Type no.	EAN no.	D
847.040.040	5705499413090	40
847.050.050	5705499412420	50
847.075.075	5705499412437	75
847.082.082	5705499121322	82
847.110.110	5705499412444	110
847.125.125	5705499412451	125
847.160.160	5705499412468	160
847.200.200	5705499412475	200
847.250.250	5705499121773	250

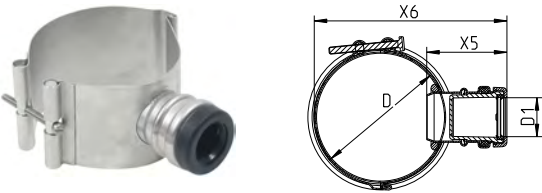
CROSS RAKING FIXING FOR PIPE JOINT CLAMP TYPE 847



Type no.	EAN no.
847.000.000	5705499409628

To be used with pipe joint clamp type 847.

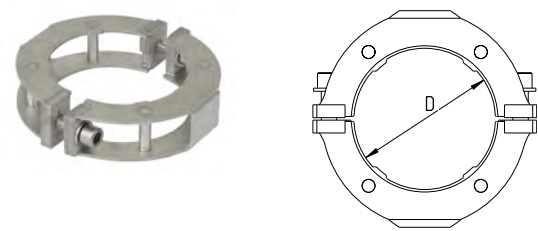
SADDLE CLAMP TYPE 890



Type no.	EAN no.	D	D1	X5	X6
890.075.040	5705499104776	75	32	68	126
890.075.050	5705499104837	75	50	70	124
890.110.040	5705499104806	110	32	68	163
890.110.050	5705499104813	110	50	70	159

D1=32mm fits D1=40mm as well.

PRESSURE PEAK PIPE JOINT CLAMP TYPE 847.001

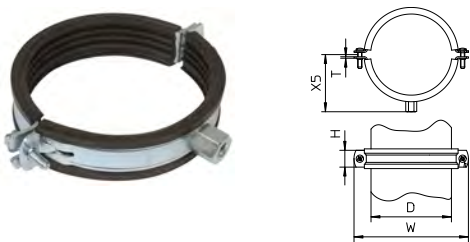


Type no.	EAN no.	D
847.001.040	5705499413106	40
847.001.050	5705499412499	50
847.001.075	5705499412505	75
847.001.082	5705499412512	82
847.001.110	5705499412529	110
847.001.125	5705499412536	125
847.001.160	5705499412543	160
847.001.200	5705499413939	200
847.001.250	5705499413687	250
847.001.315	5705499413694	315

Pipework can withstand brief pressure peaks when fitted with pressure peak joint clamps on all joints.
Not to be used instead of remotely operated valve.

Pipe hangers

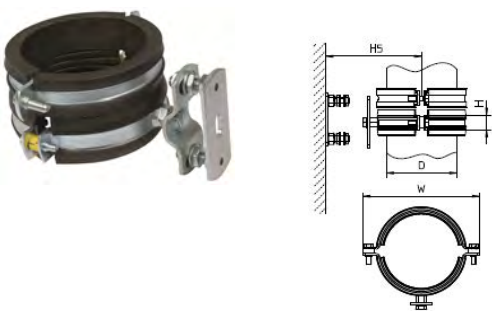
PIPE HANGER WITH EPDM RUBBER TYPE 895.401
IN GALVANIZED STEEL



Type no.	EAN no.	D	H.	W	X5	T	Nut
895.401.040	5705499413144	40	20	83	41	1.25	M8/M10
895.401.050	5705499128024	50	20	97	49	1.25	M8/M10
895.401.075	5705499128031	75	23	122	61	2	M8/M10
895.401.110	5705499128048	110	23	157	78	2	M8/M10
895.401.125	5705499128055	125	23	169	84	2	M8/M10
895.401.160	5705499128062	160	25	233	108	3	M8/M10
895.401.200	5705499128079	200	25	273	122	3	M10
895.401.250	5705499128086	250	38	345	163	4	M16
895.401.315	5705499135312	315	48	414	198	5	M16

D=75mm fits D=82mm as well.

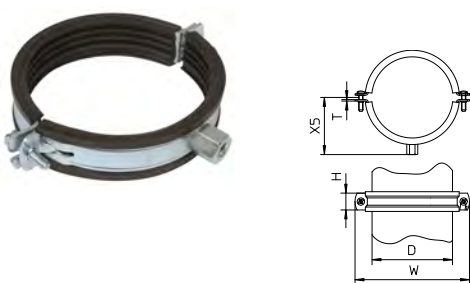
PIPE HANGER WITH EPDM RUBBER TYPE 895.402
IN GALVANIZED STEEL



Type no.	EAN no.	D	H.	H5	W
895.402.075	5705499128109	75	25	83-96	154
895.402.110	5705499128116	110	25	100-110	176
895.402.125	5705499128123	125	25	108-118	199
895.402.160	5705499128130	160	25	127-137	234
895.402.200	5705499128147	200	25	152-162	274

Reducing noise transmission to the building.
D=75mm fits D=82mm as well.

PIPE HANGER WITH EPDM RUBBER TYPE 895.403
IN STAINLESS STEEL



Type no.	EAN no.	D	H.	W	X5	T	Nut
895.403.040 S	5705499413168	40	20	85	32	1.5	M8
895.403.050 S	5705499128161	50	20	97	41	1.5	M8
895.403.075 S	5705499128178	75	20	118	51	2	M8
895.403.110 S	5705499128185	110	20	158	72	2.5	M10
895.403.125 S	5705499128192	125	20	170	78	2.5	M10
895.403.160 S	5705499128208	160	25	233	101	2.5	M10
895.403.200 S	5705499128215	200	25	273	123	3	M10
895.403.250 S	5705499128222	250	25	317	142	2.5	M10

D=75mm fits D=82mm as well.

Fixing and support

VERTICAL FIXING

All vertical pipework should be provided with pipe brackets at maximum of 3 m intervals. Brackets to be placed under ring seal sockets whenever possible.

HORIZONTAL FIXING

All horizontal pipework should be provided with pipe brackets at maximum of 3 m intervals. Brackets to be placed under ring seal sockets whenever possible.

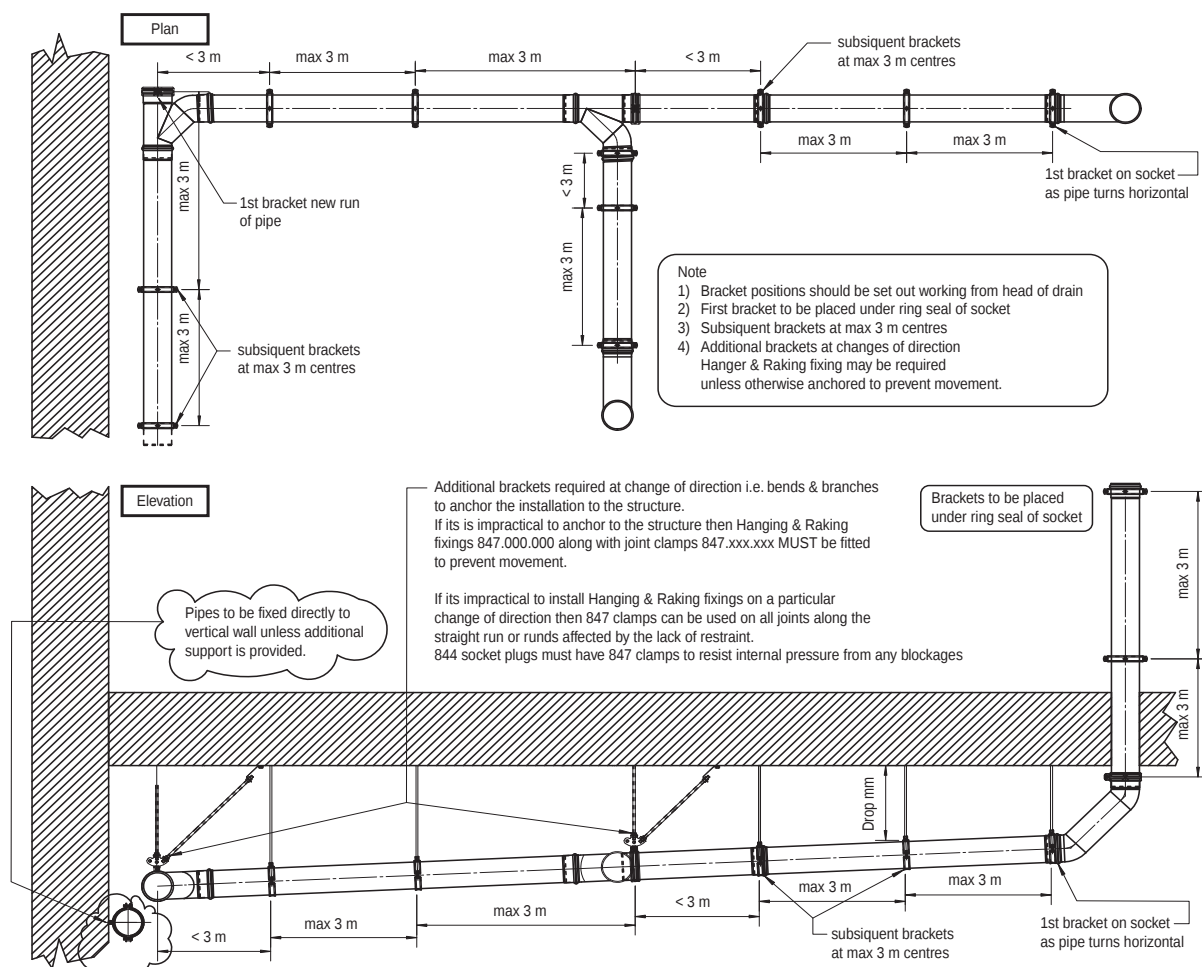
Additional brackets required at change of direction, ie bends and branches, to anchor the installation to the structure. If

it is impractical to anchor to the structure then Hanging & Raking fixings 847.000.000 along with Joint Clamps 847.xxx.xxx **must** be fitted to prevent movement.

If it is impractical to install Hanging and Raking fixings on a particular change of direction then 847.xxx.xxx clamps can be used on all joints along the straight run or runs affected by the lack of restraint.

844 Socket plugs must have 847 clamp to resist internal pressure from any blockage

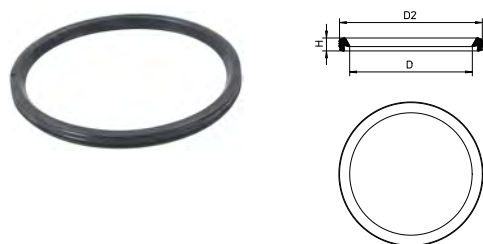
Horizontal pipe runs are always to be installed with a gradient. If no self-cleansing calculation is available, a gradient of 20 ‰ is recommended in gravity systems. Horizontal pipe runs in vacuum systems are to be installed in accordance with the recommendations of the vacuum system supplier.



Sealing rings

EPDM LIP SEALING RING BLACK TYPE 801

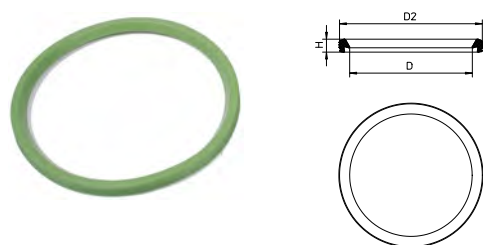
FOR STANDARD USE



Type no.	EAN no.	D	H	D2
801.EPDM.032	5705499403923	32	6.0	39.5
801.EPDM.040	5705499403930	40	7.8	51.7
801.EPDM.050	5705499400038	50	7.8	61.8
801.EPDM.075	5705499400045	75	7.8	87.1
801.EPDM.082	5705499123524	82	8.0	93
801.EPDM.110	5705499400069	110	8.9	124.2
801.EPDM.125	5705499408096	125	10.2	142.3
801.EPDM.160	5705499400076	160	11.5	180.1
801.EPDM.200	5705499410785	200	12.8	223.8
801.EPDM.250	5705499121704	250	19	282
801.EPDM.315	5705499413700	315	20	350

FPM LIP SEALING RING TYPE 801

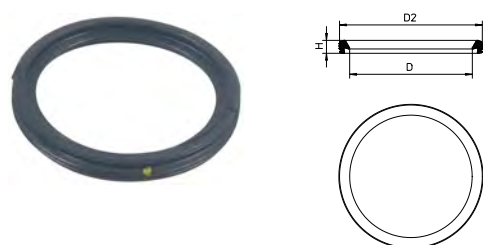
FOR HIGH TEMPERATURES



Type no.	EAN no.	D	H	D2
801.FPM.040	5705499413458	40	7.8	51.7
801.FPM.050	5705499408102	50	7.8	61.8
801.FPM.075	5705499408119	75	7.8	87.1
801.FPM.082	5705499138788	82	8.0	93
801.FPM.110	5705499408126	110	8.9	124.2
801.FPM.125	5705499410792	125	10.2	142.3
801.FPM.160	5705499408133	160	11.5	180.1
801.FPM.200	5705499410808	200	12.8	223.8
801.FPM.250	5705499121728	250	19	282
801.FPM.315	5705499413717	315	20	350

NBR LIP SEALING RING BLACK/YELLOW TYPE 801

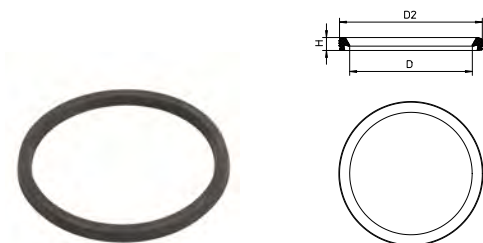
FOR USE WITH OIL



Type no.	EAN no.	D	H	D2
801.NBR.040	5705499413182	40	7.8	51.7
801.NBR.050	5705499400106	50	7.8	61.8
801.NBR.075	5705499400113	75	7.8	87.1
801.NBR.082	5705499138771	82	8.0	93
801.NBR.110	5705499400120	110	8.9	124.2
801.NBR.125	5705499410815	125	10.2	142.3
801.NBR.160	5705499400137	160	11.5	180.1
801.NBR.200	5705499410822	200	12.8	223.8
801.NBR.250	5705499121711	250	19	282
801.NBR.315	5705499413724	315	20	350

EPDM SEALING RING TYPE 804

FOR USE IN OLD ACCESS PIPES PRODUCED BEFORE 2002



Type no.	EAN no.	H	D2	D3
804.REN.075	5705499400175	5	80	70
804.REN.110	5705499400182	5	115	105
804.REN.160	5705499400199	5	165	155

MANUAL PIPE CUTTER

Cutting is done by a special disc cutter, which cuts and grips at the same time.

N.B.: Do not cut fittings.



Type no.	EAN no.	Designation
006.050.110	5705499000061	Manual pipe cutter (40 - 110 mm)
006.125.200	5705499001020	Manual pipe cutter (110 - 200 mm)
006.200.315	5705499123531	Manual pipe cutter (200 - 315 mm)
006.000.005	5705499000023	Spindle for 006.050.110
006.000.000	5705499000016	Cutting disc for 006.050.110
006.000.001	5705499001068	Cutting disc for 006.125.200 & 006.200.315

ELECTRICAL PIPE CUTTER

Cutting quality:

The cutting motion has been developed to produce a bevelled leading edge to cut ends. As a result only the application of BLÜCHER jointing lubricant is required prior to jointing cut ends.

Power supply:

110 Volt/Min 2 kVA/60 Hz or 220 Volt/50 Hz.

Pipe diametres:

50-160 mm

N.B.: Do not cut fittings.



Type no.	EAN no.	Designation
800.050.160	5705499400021	Electrical pipe cutter 220 V
800.050.160 GB	5705499000184	Electrical pipe cutter 110 V, 16 A
800.050.160 US	5705499000191	Electrical pipe cutter 110 V, USA plug
800.030.006	5705499400014	Cutting disc
006.050.160	5705499124132	Support base for electrical pipe cutter

CUTTING OIL/JOINTING LUBRICANT

Jointing lubricant is applied to make jointing a simple action. After a few days the lubricant will dry out and lose its lubricity making subsequent demounting of a joint difficult. If subsequent demounting of joints can be envisaged then we can supply a silicone based lubricant that will not dry out. BLÜCHER jointing lubricant is based on a mild and harmless liquid detergent that is biologically degradable. BLÜCHER cutting oil is recommended for use with BLÜCHER® EuroPipe pipe cutters.



Type no.	EAN no.	Designation
007.000.000	5705499000078	Atomizer
007.100.050	5705499000085	Jointing lubricant 0.5 L
007.500.050	5705499000092	Cutting oil 0.5 L

ASSEMBLY TOOL



Type no.	EAN no.	Designation
806.000.160	5705499124149	For pipes D=160mm
806.000.200	5705499123500	For pipes D=200mm
806.000.250	5705499124156	For pipes D=250mm

DIMPLING JAWS

FOR PRESSING PROJECTIONS ON PIPES

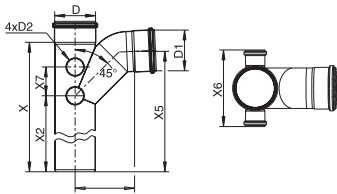


Type no.	EAN no.
800.200.001	5705499403978

- Bespoke Items

Bespoke items to meet your requirements can be made on request, please see examples below.

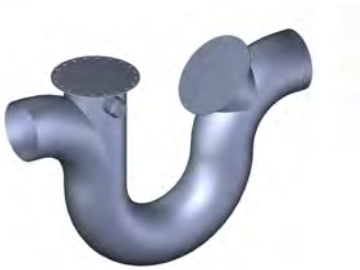
Type: 899 - WC branch with waste boss



Type No.	D	D1	D2	X	X2	X4	X5	X6	X7
899-37211-1A	110	110	50	567	422	161	543	206	78

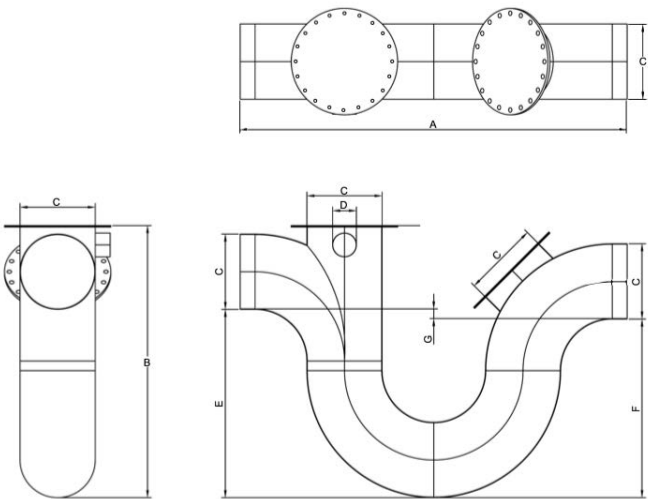
Note!
Available with 1,2,3 or 4 No 50mm boss connection W58 rubber insert for 1.1/4" plastic waste
or
W59 rubber insert for 1.1/2" plastic waste
Max. slab thickness 300mm to avoid joint in slab. Other slab thickness are available.

Interceptor Traps



DN	A	B	C	D	E	F	G
150	1110	727	154	110	515	450	65
200	1400	977	204	160	665	600	65
250	1600	1052	254	160	765	700	65
300	1800	1227	304	160	865	800	65
350	2000	1403	356	160	965	900	65
400	2200	1528	406	160	1065	1000	65
450	2400	1703	456	160	1165	1100	65
500	2600	1828	506	160	1265	1200	65

As approved by the City of London



Flow tables

INTRODUCTION

Stainless Steel pipes are hydraulically smooth (Ks value 0.003mm) and are less susceptible to scaling than other pipe materials e.g. cast iron. Pipe manufacturers often claim very low roughness coefficient values (Ks) but for design purposes 0.6mm for Surface Water drainage and 1.5mm for Foul drainage are recommended in BS EN 752:4 and should be used. BS EN 752:4 further recommends that where surface water drains remain clean, unsoiled and in good condition throughout their design life, the roughness will depend principally on the pipe material. In such cases, recommended pipe roughness values (ks) can be obtained from H R Wallingford Tables for Hydraulic design of pipes.

FLOW TABLES

The flow tables are based on the Colebrook-White equation and are full bore velocity and discharge values. Velocities (V) are in metres/second (0.76 m/s is regarded as the minimum for self cleansing in foul sewers). Discharge capacities (Q) are in litres/second.

PIPE SIZING

Internal Soil Waste and Rainwater pipes should be sized in accordance with the requirements of BS EN 12056 - Gravity drainage systems inside buildings. External Below Ground Foul and Storm Drains should be sized in accordance with the requirements of BS EN 752 - Drain and sewer systems outside buildings.

Hydraulic Flow Data - Roughness Coef Ks=0.6												
Gradient (1in)	40 mm Dia		50 mm Dia		75 mm Dia		82 mm Dia		110 mm Dia		125 mm Dia	
	V Q		V Q		V Q		V Q		V Q		V Q	
	Velocity	Discharge	Velocity	Discharge	Velocity	Discharge	Velocity	Discharge	Velocity	Discharge	Velocity	Discharge
10	1.50	2.71	1.50	2.71	1.99	8.33	2.12	10.63	2.58	23.64	2.81	33.39
15	1.22	2.21	1.22	2.21	1.62	6.78	1.72	8.66	2.10	19.26	2.29	27.21
20	1.06	1.91	1.06	1.91	1.40	5.87	1.49	7.49	1.82	16.67	1.98	23.55
25	0.94	1.70	0.94	1.70	1.25	5.24	1.33	6.69	1.63	14.89	1.77	21.05
30	0.86	1.55	0.86	1.55	1.14	4.78	1.21	6.10	1.48	13.58	1.61	19.19
35	0.79	1.44	0.79	1.44	1.06	4.42	1.12	5.65	1.37	12.57	1.50	17.77
40	0.74	1.34	0.74	1.34	0.99	4.13	1.05	5.28	1.28	11.74	1.40	16.60
45	0.70	1.26	0.70	1.26	0.93	3.89	0.99	4.97	1.21	11.06	1.32	15.63
50	0.66	1.20	0.66	1.20	0.88	3.69	0.94	4.71	1.14	10.49	1.25	14.83
55	0.63	1.14	0.63	1.14	0.84	3.51	0.89	4.49	1.09	10.00	1.19	14.13
60	0.60	1.09	0.60	1.09	0.80	3.36	0.85	4.30	1.04	9.57	1.14	13.53
65	0.58	1.05	0.58	1.05	0.77	3.23	0.82	4.12	1.00	9.19	1.09	12.99
70	0.56	1.01	0.56	1.01	0.74	3.11	0.79	3.97	0.97	8.85	1.05	12.51
75	0.54	0.97	0.54	0.97	0.72	2.99	0.76	3.83	0.93	8.53	1.01	12.05
80	0.52	0.94	0.52	0.94	0.69	2.90	0.74	3.71	0.90	8.26	0.98	11.68
85	0.50	0.91	0.50	0.91	0.67	2.82	0.72	3.60	0.88	8.02	0.95	11.34
90	0.49	0.88	0.49	0.88	0.65	2.73	0.69	3.49	0.85	7.78	0.93	11.00
95	0.48	0.86	0.48	0.86	0.63	2.65	0.67	3.39	0.83	7.56	0.90	10.69
100	0.46	0.84	0.46	0.84	0.62	2.59	0.66	3.31	0.80	7.37	0.88	10.43
105	0.45	0.82	0.45	0.82	0.60	2.52	0.64	3.22	0.78	7.18	0.86	10.16
110	0.44	0.80	0.44	0.80	0.59	2.47	0.63	3.15	0.77	7.03	0.84	9.94
115	0.43	0.78	0.43	0.78	0.58	2.41	0.61	3.08	0.75	6.87	0.82	9.71
120	0.42	0.76	0.42	0.76	0.56	2.35	0.60	3.01	0.73	6.71	0.80	9.48
125	0.42	0.75	0.42	0.75	0.55	2.31	0.59	2.95	0.72	6.58	0.78	9.31
130	0.40	0.73	0.40	0.73	0.54	2.26	0.58	2.89	0.70	6.45	0.77	9.13
135	0.40	0.72	0.40	0.72	0.53	2.22	0.56	2.83	0.69	6.32	0.76	8.95
140	0.39	0.70	0.39	0.70	0.52	2.17	0.55	2.78	0.68	6.19	0.74	8.76
145	0.38	0.69	0.38	0.69	0.51	2.14	0.54	2.73	0.67	6.10	0.73	8.63
150	0.38	0.69	0.38	0.69	0.51	2.14	0.54	2.73	0.67	6.10	0.73	8.63

Hydraulic Flow Data - Roughness Coef Ks=1.5												
Gradient (1in)	40 mm Dia		50 mm Dia		75 mm Dia		82 mm Dia		110 mm Dia		125 mm Dia	
	V Q		V Q		V Q		V Q		V Q		V Q	
	Velocity	Discharge	Velocity	Discharge	Velocity	Discharge	Velocity	Discharge	Velocity	Discharge	Velocity	Discharge
10	1.26	2.29	1.26	2.29	1.70	7.11	1.81	9.10	2.22	20.38	2.43	28.87
15	1.03	1.87	1.03	1.87	1.39	5.80	1.48	7.42	1.81	16.62	1.98	23.55
20	0.89	1.61	0.89	1.61	1.20	5.02	1.28	6.43	1.57	14.39	1.72	20.39
25	0.80	1.44	0.80	1.44	1.07	4.49	1.14	5.74	1.40	12.88	1.53	18.23
30	0.73	1.32	0.73	1.32	0.98	4.09	1.04	5.24	1.28	11.73	1.40	16.63
35	0.67	1.22	0.67	1.22	0.91	3.79	0.97	4.85	1.19	10.87	1.30	15.40
40	0.63	1.14	0.63	1.14	0.85	3.54	0.90	4.53	1.11	10.16	1.21	14.40
45	0.59	1.07	0.59	1.07	0.80	3.34	0.85	4.27	1.04	9.57	1.14	13.56
50	0.56	1.02	0.56	1.02	0.76	3.16	0.81	4.05	0.99	9.08	1.08	12.87
55	0.54	0.97	0.54	0.97	0.72	3.02	0.77	3.86	0.95	8.66	1.03	12.27
60	0.51	0.93	0.51	0.93	0.69	2.89	0.74	3.70	0.91	8.29	0.99	11.75
65	0.49	0.89	0.49	0.89	0.66	2.77	0.71	3.55	0.87	7.96	0.95	11.28
70	0.47	0.86	0.47	0.86	0.64	2.67	0.68	3.42	0.84	7.67	0.91	10.87
75	0.46	0.83	0.46	0.83	0.62	2.58	0.66	3.30	0.81	7.39	0.88	10.48
80	0.44	0.80	0.44	0.80	0.60	2.50	0.64	3.20	0.79	7.17	0.85	10.16
85	0.43	0.78	0.43	0.78	0.58	2.42	0.62	3.10	0.76	6.96	0.83	9.87
90	0.42	0.75	0.42	0.75	0.56	2.35	0.60	3.01	0.74	6.75	0.81	9.57
95	0.41	0.73	0.41	0.73	0.55	2.29	0.58	2.93	0.72	6.56	0.78	9.30
100	0.40	0.72	0.40	0.72	0.53	2.23	0.57	2.85	0.70	6.40	0.76	9.08
105	0.39	0.70	0.39	0.70	0.52	2.17	0.55	2.78	0.68	6.24	0.74	8.84
110	0.38	0.68	0.38	0.68	0.51	2.13	0.54	2.72	0.67	6.10	0.73	8.65
115	0.37	0.67	0.37	0.67	0.50	2.08	0.53	2.66	0.65	5.97	0.71	8.46
120	0.36	0.65	0.36	0.65	0.48	2.03	0.52	2.60	0.64	5.83	0.70	8.26
125	0.35	0.64	0.35	0.64	0.48	1.99	0.51	2.55	0.62	5.72	0.68	8.11
130	0.35	0.63	0.35	0.63	0.47	1.95	0.50	2.50	0.61	5.61	0.67	7.95
135	0.34	0.62	0.34	0.62	0.46	1.91	0.49	2.45	0.60	5.50	0.66	7.80
140	0.33	0.60	0.33	0.60	0.45	1.87	0.48	2.40	0.59	5.39	0.64	7.63
145	0.33	0.59	0.33	0.59	0.44	1.85	0.47	2.37	0.58	5.31	0.63	7.53
150	0.33	0.59	0.33	0.59	0.44	1.85	0.47	2.37	0.58	5.31	0.63	7.53

Installation

BELOW-GROUND INSTALLATION

Filling around the pipe

Filling around the pipe can only start when the line and level of the pipe has been checked and approved.

Compression

Avoid tipping the filling directly down on to the pipe.

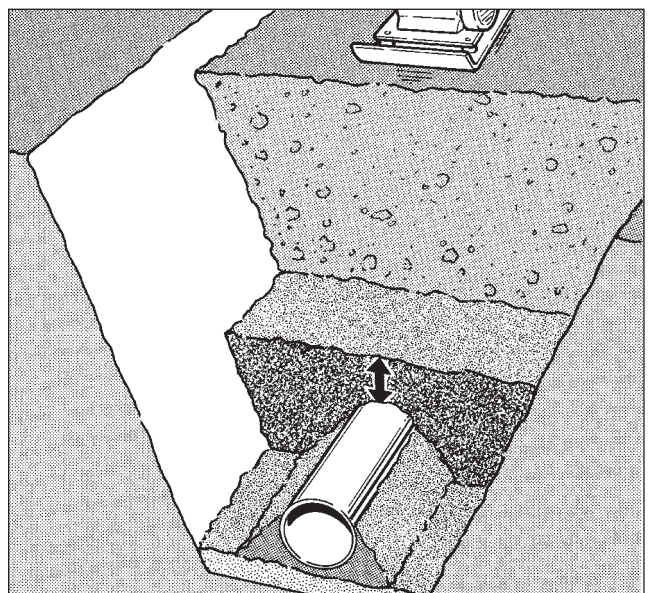
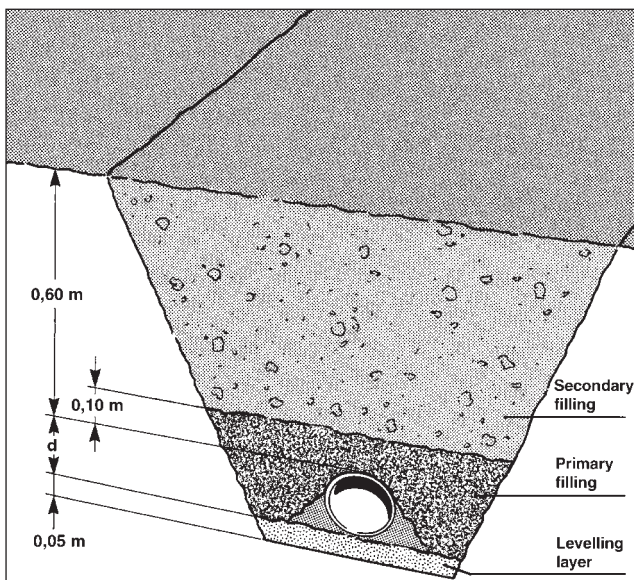
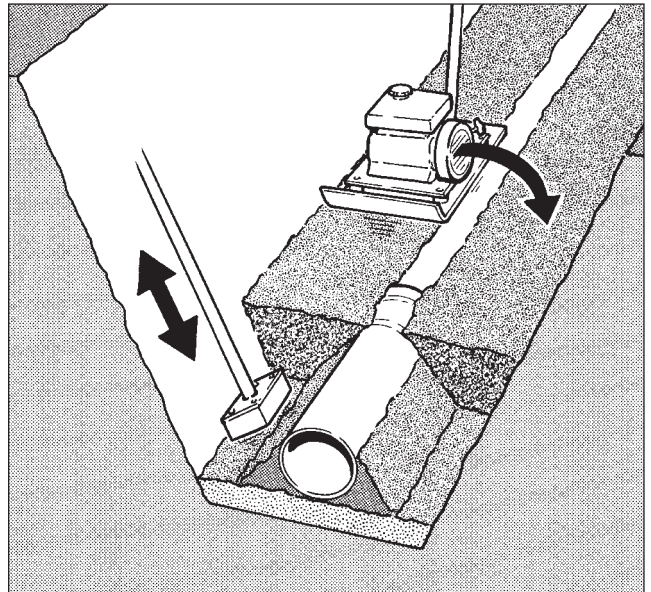
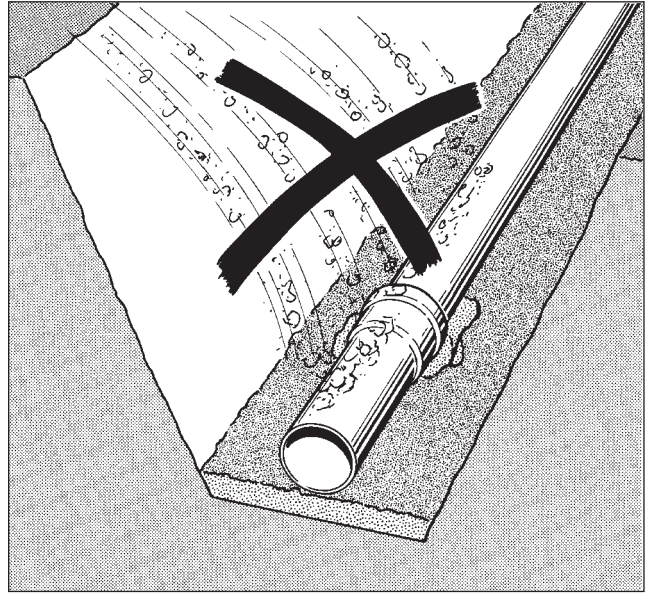
If a machine is used for compression, the equipment's own weight and impact force must be adapted to conditions.

The filling should be compressed to at least 93%.

Filling in the excavation

Soil from the excavation can be used for filling, but larger stones and blocks may not be used. Compression of the filling material outside reinforced areas is not necessary if the settling will not cause problems or damage.

Further guidance can be obtained from BS 5955 Pt 6



Installation

JOINT CLAMPS

Drainage systems for soil, waste water and rainwater in above-ground installations are gravity systems, which are free draining and should not become subjected to internal hydrostatic pressure unless a blockage occurs.

The BLÜCHER® EuroPipe drainage pipework system has push-fit joints and consequently will not resist internal hydrostatic pressure, unless precautions are taken to ensure that the joints will not slide apart.

Appropriate fixing to the building, as recommended, will prevent the joints from sliding apart in most cases, upto approx. 10 m head. If it is difficult or impossible to fix the pipes to the building, joint clamps (type 847.xxx.xxx) can be used to prevent the push-fit sockets and spigot ends from sliding apart in the event of a blockage causing internal pressure to be generated.

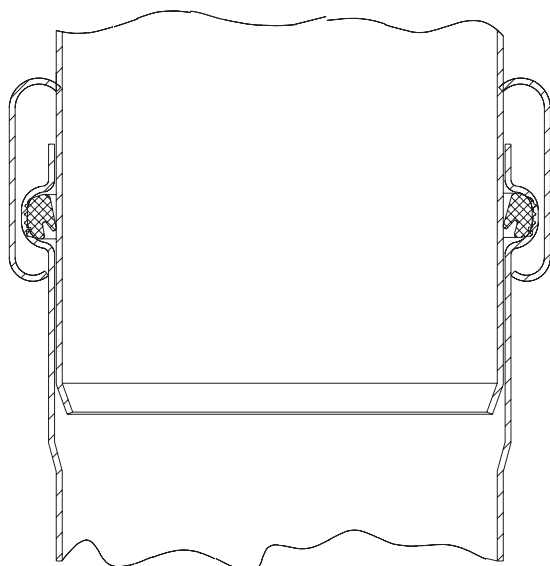


Fig. 1

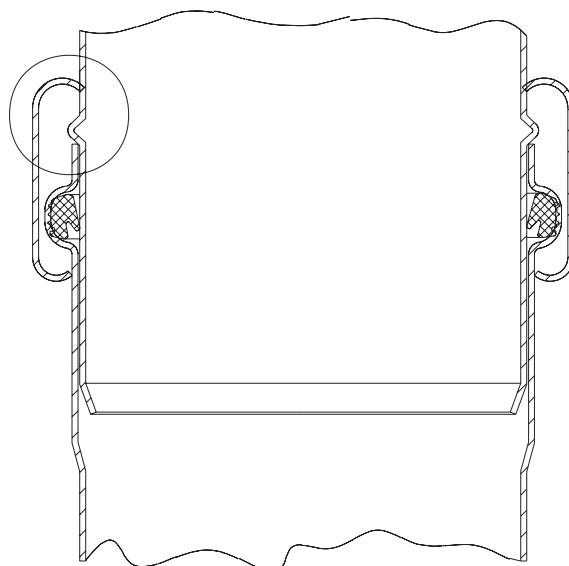


Fig. 2

Joint clamps can be used in two ways: They can simply be tightened (16Nm) (see Fig. 1), or the spigot end can be provided with dimples for the clamps to grip (see Fig. 2).

The max. acceptable pressure depends on the method chosen. A joint with dimples on the spigot end can, as shown below, withstand a higher pressure than a joint without dimples.

Push-fit socket and spigot end without dimples, with joint clamp type no. 847.xxx.xxx, can withstand the following pressures:

Pipe dimension	Max. pressure
ø 40 mm	+ 2.0 bar
ø 50 mm	+ 2.0 bar
ø 75 mm	+ 2.0 bar
ø 82 mm	+ 2.0 bar
ø110 mm	+ 2.0 bar
ø125 mm	+ 1.0 bar
ø160 mm	+ 1.0 bar
ø200 mm	+ 0.5 bar
ø250 mm	+ 0.2 bar
ø315 mm	N/A

Push-fit socket and spigot end with dimples, with joint clamp type no. 847.xxx.xxx, can withstand the following pressures:

Pipe dimension	Max. pressure
ø 40 mm	+ 3.0 bar
ø 50 mm	+ 3.0 bar
ø 75 mm	+ 3.0 bar
ø 82 mm	+ 3.0 bar
ø110 mm	+ 3.0 bar
ø125 mm	+ 3.0 bar
ø160 mm	+ 3.0 bar
ø200 mm	+ 2.5 bar
ø250 mm	+ 2.0 bar
ø315 mm	N/A

Installation

DIMPLES ON THE SOCKET END

For pipe dimensions OD 50, 75, 110, 125, 160 and 200 mm, a number of dimples are pressed on the spigot end of the pipe with a special tool before jointing with the socket end. The dimples can be pressed very quickly. When the spigot end has been mounted in the socket end, the joint clamp can be mounted in the usual way so that the part of the joint clamp holding the spigot end covers the dimples (see Figure 2).

The table right shows the number of dimples to be pressed on the pipe for the joint to be able to withstand 3 bar.

Pipe dimension	No. of dimples
ø 40 mm	N/A
ø 50 mm	2
ø 75 mm	2
ø 82 mm	2
ø110 mm	4
ø125 mm	5
ø160 mm	8
ø200 mm	12
ø250 mm	16
ø315 mm	N/A

The tool consists of a set of special jaws for the electro-mechanical tool used in pressfitting systems (see Fig. 3).

It is important that the joints are completely tightened.

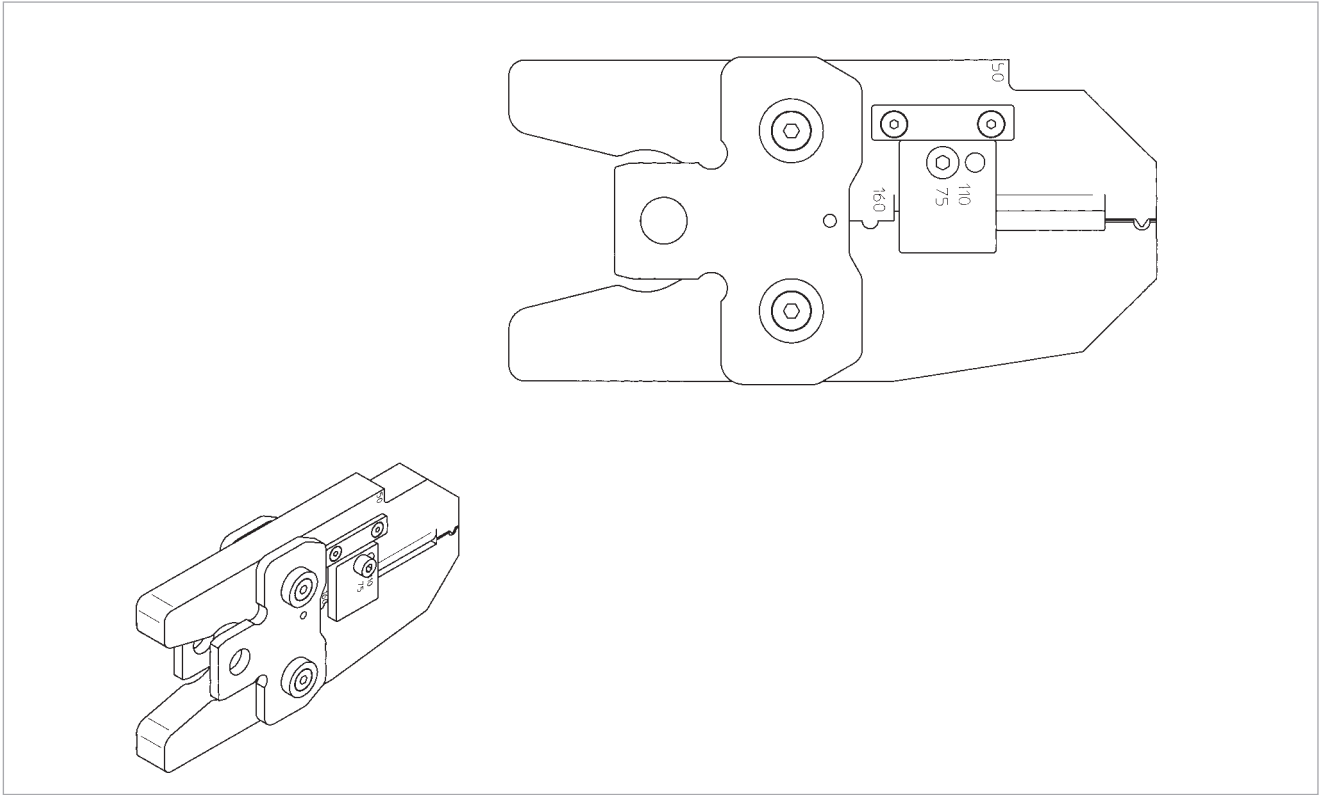


Fig. 3

Using socket plug clamps as access plugs

As stated above, drainage systems for waste water and rainwater in above-ground installations are gravity systems which are free draining and should not become subjected to internal hydrostatic pressure unless a blockage occurs. Under these conditions, joint clamps are not necessary to retain the access plugs in place. As it can be difficult to remove the

access plugs after the lubricant applied on the installation has been washed away, using non-drying silicone as lubricant on these joints should be considered. However, if the access plugs are to be secured to prevent being pushed out, e.g. as a result of an unforeseen blockage in the pipe system, 847 joint clamps should be used.

Installation

BLÜCHER® EuroPipe

BLÜCHER® EuroPipe stainless steel drainage pipework system is a light-weight push-fit piping system comparable to plastic pipework systems in weight and to cast-iron pipework systems in strength.

Pipes are available in OD40 - OD315 mm in lengths ranging from 150 cm to 6 m. In addition, the pipes can be cut to length on site. For this purpose we recommend the BLÜCHER® pipe cutter, (see page 36).

Considering the whole-life costs of the pipework system, BLÜCHER® EuroPipe is the most cost-efficient choice, offering approximately 40% saving on installation time as compared to cast-iron pipework systems as stated in BSRIA data sheet 5.11.2

Being non-combustible and not damaged by impacts as opposed to plastic pipework systems, BLÜCHER® EuroPipe offers lower whole-life costs as stated in Building Performance Group Ltd. assessment report no. 1732.



Testing

Sanitation

All pipework systems above or below ground should be tested in accordance with BS EN 12056 annex NG.3

This allows for an air test of 38mm water gauge to be applied without leakage for 3 mins.

There is no justification for a water test to be applied to the whole of the system. The part of the system mostly at risk is that below the lowest sanitary appliance. This may be subjected to a water test up to the level of the lowest appliance, but must not exceed 6m head.

All rainwater pipework should be tested in accordance with BS EN 12056 annex NG4.

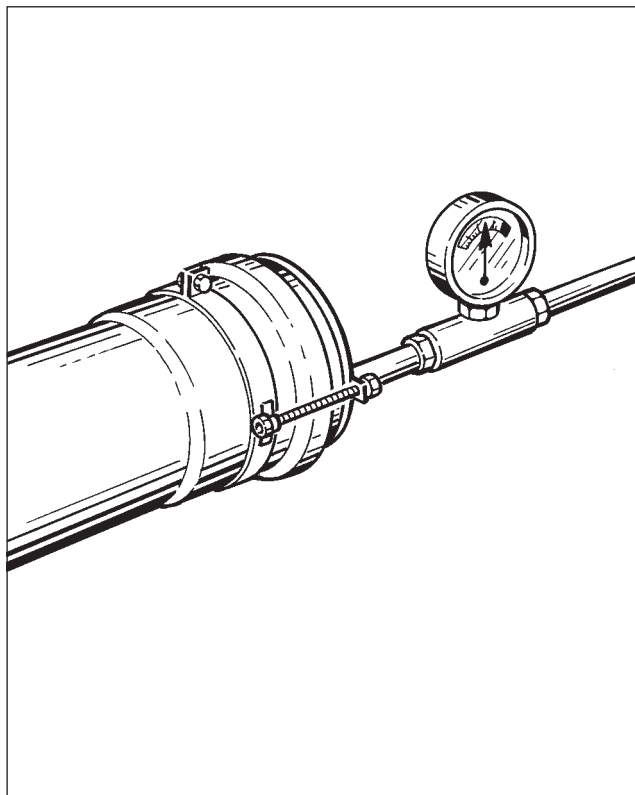
This also allows for an air test of 38mm water gauge to be applied without leakage for 3 mins.

Leakage test

All fittings manufactured in Denmark are individually tested before leaving the factory.

The test is carried out with an air pressure of 0.5 bar (5m head). Any leak will then be immediately evident.

Products are also tested at regular intervals with water pressure and vacuum by BLÜCHER and by independent approval authorities.



Handling

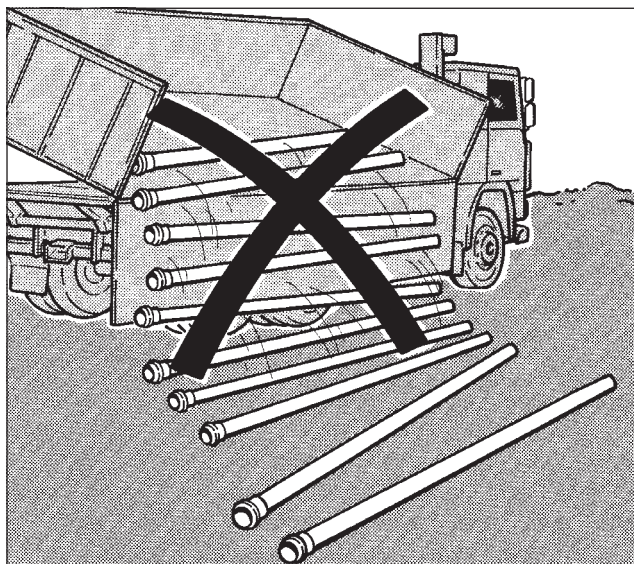
TRANSPORT, UNLOADING AND HANDLING

General:

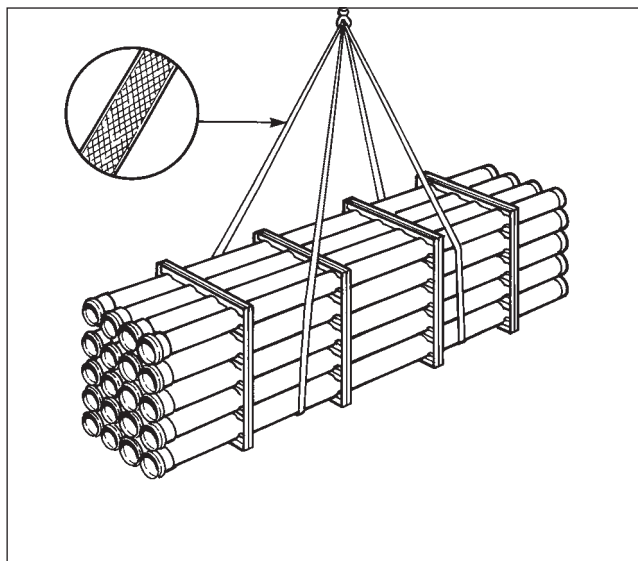
All pipe shipments from BLÜCHER are cradled and packed on pallets. Fittings are packed in cardboard boxes and stacked on pallets. All goods are carefully packaged to avoid damage during transport.

Transport and handling

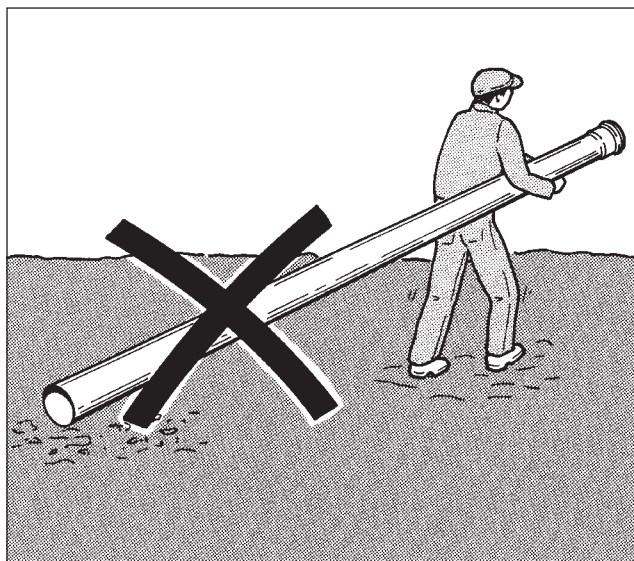
The following rules should be observed to avoid damage to pipes and fittings during transport.



Pipes and fittings must not be dumped off trucks.



Support straps for loading and moving bundles of pipes by crane must be made of textile, canvas or similar material.

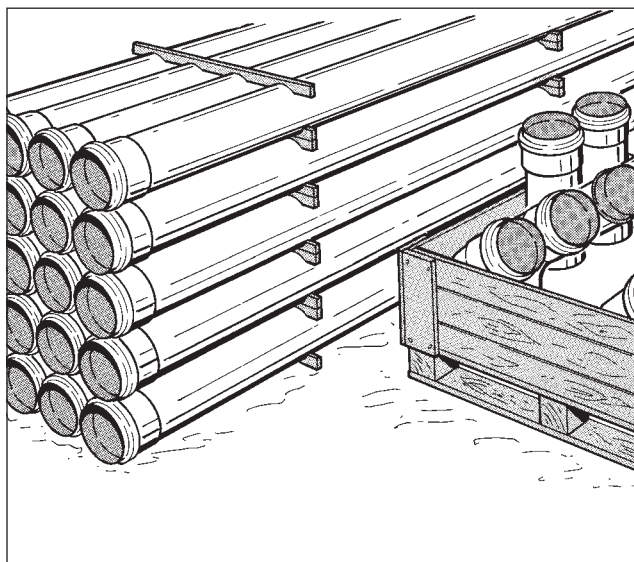


Pipes and fittings must not be dragged along the ground or other surfaces which could cause damage.

Storage

To avoid deformation of, or serious damage to, pipes and fittings, we recommend storing the products in their original packaging until they are to be used.

Store pipes and fittings so that they do not come into contact with carbon steel, which can leave traces of corrosion on the stainless steel. Pipes and fittings must also be stored a safe distance away from sparks and spray from e.g. angle grinders and oxyacetylene torches.



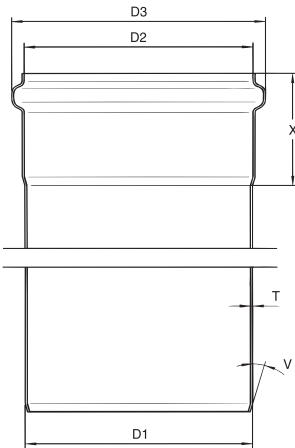
Pipe bundles and loose pipes should be stored on a flat surface and supported so that the pipes do not rest on their sockets.

A WATTS Brand

Technical data

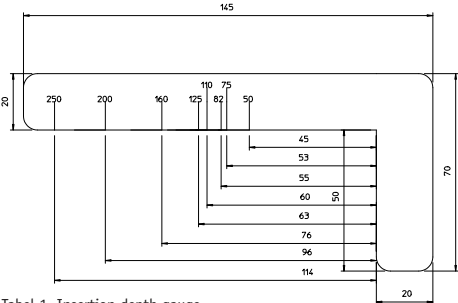
DIMENSIONS

For pipe socket dimensions and wall thicknesses for 40 mm, 50 mm, 75 mm, 82 mm, 110 mm, 125 mm, 160 mm, 200 mm, 250 mm and 315 mm outside diameters - see Figure 1.



D1	D2	D3	X	V	T
40	41	52	41	20°	1
50	51	61	42	20°	1
75	76	87	50	20°	1
82	83	94	52	20°	1
110	111	123	57	20°	1
125	126	140	60	20°	1
160	161	177	72	20°	1.25
200	201	219	90	20°	1.50
250	251	277	108	20°	1.50
315	316	344	116	20°	2

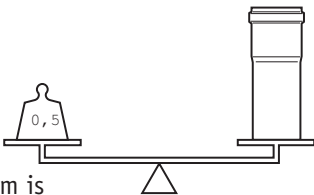
Figure 1. Pipe dimensions (in mm).



Tabel 1. Insertion depth gauge.

WEIGHT

Being manufactured from lightweight stainless steel the BLÜCHER® EuroPipe system is easy to handle and install. It offers major savings on labour costs when compared with traditional pipe systems. The weight savings are of great benefit when used on multi-storey buildings, ships and offshore structures.



Diameter	Pipe only	Pipe filled with water
40 mm	1.00	2.70
50 mm	1.30	3.01
75 mm	1.94	6.03
82 mm	2.15	7.35
110 mm	2.87	11.86
125 mm	3.30	14.96
160 mm	5.31	24.48
200 mm	8.12	38.60
250 mm	9.70	58.80
315 mm	15.80	91.80

Figure 2. Pipe Weights (Kg/m).

CUTTING

May be carried out with either BLÜCHER Cutting and Bevelling Tools (manual or electric) or by a fine toothed metal saw. Adequate mineral oil lubrication (type no. 007.500.050) is recommended. When a saw is used ensure pipe is cut square, chamfered and deburred prior to jointing.

Note!

When cutting and jointing BLÜCHER® EuroPipe care should be taken to wear all site PPE as required. Site gloves will protect against any potential sharpe edges from the cutting process, when handling and jointing.



BLÜCHER Cutting and Bevelling Tool (manual)

Type No. 006.050.110 to cut and bevel 50 mm, 75 mm, 82 mm and 110 mm diameter BLÜCHER® EuroPipe. Type No. 006.125.200 to cut and bevel 110 mm, 125 mm, 160 mm and 200 mm diameter BLÜCHER® EuroPipe. Type No. 006.200.315 to cut and bevel 200mm and 250mm.



BLÜCHER Cutting and Bevelling Tool (electric)

Type No. 800.050.160 to cut and bevel 50 mm, 75 mm, 82 mm, 110 mm, 125 mm and 160 mm diameter BLÜCHER® EuroPipe.

JOINTING

Mark insertion depth on spigot end of pipe as figure 1, or using Insertion depth Gauge. Lubricate spigot with BLÜCHER® lubricant. Apply standard soap based lubricant for normal use (type no. 007.100.050) or silicone based lubricant (type no 007.200.040) if there may be a requirement to demount the joints at a later date.

Push fit to marked insertion depth, this allows for expansion All pipes and fittings have sockets. Direction of flow should be from spigot into socket to ensure the correct use of the built in fall in the fittings. Couplings may be used to fit cut pipe lengths.



BLÜCHER Lubricant

- Type No. 007.100.050 1/2 litre soap lubricant
- Type No. 007.100.050.SIL 1/2 litre Silicon oil
- Type No. 007.200.040 400 ml silicon lubricant
- Type No. 007.000.000 Atomizer

Technical data

EXPANSION

Stainless steel has a low coefficient of expansion. This approximates to 1 mm per metre length of pipe per 60° C change in temperature, see Figure 3.

Polyethylene	12.00
PVC	8.00
Aluminium	2.40
Copper	1.62
Stainless Steel	1.60
Cast Iron	0.90

Figure 3. Coefficient of expansion of different pipe materials.
(Increase in mm per m when heated up by 100° C.)

An allowance for expansion is only therefore required when the pipes are carrying hot waste water, see Jointing, page 26.

FIRE RESISTANCE

The BLÜCHER® EuroPipe system being of stainless steel is inherently fire resistant and may be considered as non-combustible for the requirements of the Building Regulations. i.e. When exposed to a temperature of 800° C. will not soften or fracture to the extent that flames or hot gases will pass through the pipe wall.

It is recommended that any structural opening for the pipe be kept as small as possible and fire-stopped around the pipe. Suitable fire-stop materials are:

I) cement mortar, II) gypsum based plaster, III) intumescent materials.



CHEMICAL RESISTANCE

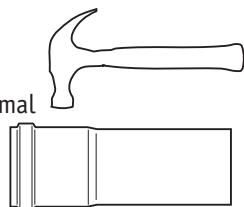
Austenitic Stainless Steels are extremely chemical resistant and are unaffected by elevated temperatures.

The BLÜCHER® EuroPipe system utilises EPDM sealing rings to provide a flexible, chemical resistant joint. For extreme applications special sealing rings are available e.g. FPM (Viton) if required. For advice regarding the suitability of BLÜCHER® EuroPipe and elastomeric sealing rings in chemical environments consult our Technical Department.



STRENGTH

All pipes and fittings have adequate resistance to the forms of loading associated with installation and normal service conditions. However, the pipes and fittings should be protected from impacts by heavy vehicles such as fork lift trucks.



ENVIRONMENT

Stainless steel is capable of endless recycling with no loss of physical properties. The stainless steel materials used by BLÜCHER have a recycled scrap content of approx. 70%.

Environmentally friendly manufacture, long life and 100% recyclability - BLÜCHER® drainage products are part of the ecological cycle and recommended by Greenpeace as a suitable alternative to PVC.



PREFABRICATION

Purpose made fittings can be manufactured to customers requirements. For information regarding the prefabrication service consult our Technical Department.

EARTH CONTINUITY

The BLÜCHER® EuroPipe push-fit waste pipework system has been tested and certified by AREPA Test and Calibration in Denmark, to be classified as equipotentially bonded without the addition of earth continuity clamps.

Copies of the test procedure and results are available upon request to our Technical Department but may be summarised as follows:

1. Resistance measurements are taken with pipe/ fittings pushed together and also pulled apart by 4 mm. In each case values are taken and the inserted pipe rotated 120 degrees and 240 degrees and retested.
2. A current of 10A DC is applied and resistance values calculated.
3. Resistance values between 0.25mΩ and 19.68mΩ were obtained.

It is recommended that the pipework system is checked regularly for equipotential bonding in case accidental damage or modification has occurred.

TESTING

Testing in accordance with BS EN 12056 Sanitary pipework or BS EN 752 Building drainage can be carried out immediately following installation.

It is recommended that pipework is tested in sections where appropriate.

Technical data

APPROVALS AND LABELLING

EN 1124

The BLÜCHER® EuroPipe system (pipes and fittings) is made, tested and checked under the EN standards

EN 1124-1 and EN 1124-2.

These two standards cover the following:

EN 1124-1 specifies requirements, tests and quality controls applying to pipes and fittings.

EN 1124-2 specifies requirements applying to pipe dimensions and dimensional tolerances for various fittings and pipes.

The above EN standards were prepared by the European standardisation organisation CEN. The BLÜCHER® EuroPipe system will thus soon obtain the recognised CE approval (CE label).

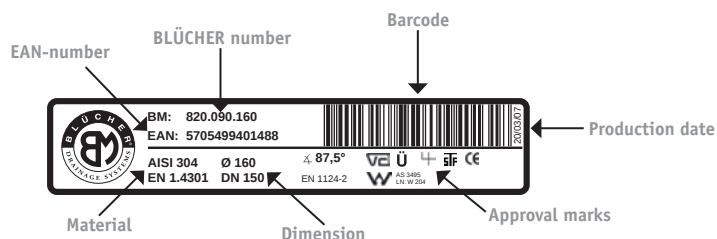
These approvals serve as documentation that the approved product complies with all specified requirements.

TYPE APPROVALS

BLÜCHER® EuroPipe has also been tested and approved in Norway, Sweden, Finland, England, Germany and Switzerland, and for ships and off-shore installations in accordance with Bureau Veritas, Lloyd's Register, DNV (Det Norske Veritas), Germanischer Lloyd, Rina (Registro Italiano Navale), and ABS (American Bureau of Shipping).

LABELLING

Pipes and fittings



Stainless steel AISI 304 - RED label

Stainless steel AISI 316L - GREEN label

NEGATIVE PRESSURE RATING

BLÜCHER® EuroPipe is suitable for use on syphonic rain-water schemes and vacuum drainage applications.

Negative Pressures:

Diameter	Standard seal
40 mm	-0,85 bar
50 mm	-0,85 bar
75 mm	-0,85 bar
110 mm	-0,60 bar
125 mm	-0,60 bar
160 mm	-0,60 bar
200 mm	-0,60 bar
250 mm	-0,60 bar
315 mm	N/A

Roof drainage



BLÜCHER® Drain Roof

bimready
files at bimstore.co.uk

BLÜCHER offers a stainless steel roof drainage system suitable for:

- Flat roofs of all designs
- Downpipes from roofs of all designs
- Roofs with bitumen or single ply roof membrane
- Equally suitable for gravity and siphonic systems

BLÜCHER® roof drainage system comprises strong products which are capable of resisting impacts, corrosion as well as fire and require minimal maintenance.

Gravity roof drainage is used in traditional new build or refurbishment projects.

Siphonic roof drainage creates a flow rate approximately 3 - 5 times higher than in a gravity system.

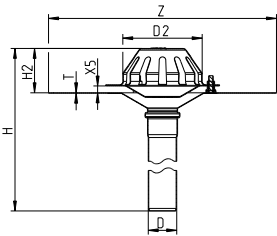
This means that a larger roof area can be drained by fewer roof drains connected to one pipe string in smaller diameter than that required for the gravity system.

It is BLÜCHER's mission to provide a high-quality roof drainage system with roof drains easily connected to the BLÜCHER® EuroPipe pipework system, offering the customer a safe roof drainage system that minimizes installation time and ensures high performance as regards

- High flow capacity
- Ease of installation
- Non-combustibility
- Long product life
- A1 fire approved

for siphonic

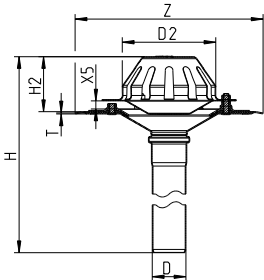
ROOF DRAIN TYPE 401.20
WITH FLANGE FOR BITUMEN



Type no.	EAN no.	D	Z	H	H2	D2	X5	T
401.204.040	5705499132823	40	400x400	496	78	140	12	1
401.204.050	5705499132830	50	400x400	496	78	140	12	1
401.204.075	5705499132847	75	400x400	496	78	140	12	1

Flow rate in accordance with "Flow rates for roof drains"

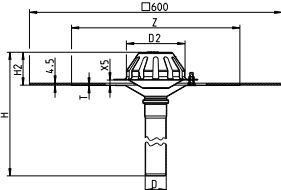
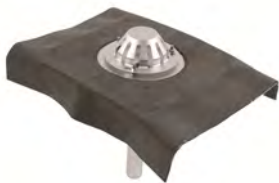
ROOF DRAIN TYPE 402.20
WITH CLAMPING FLANGE FOR SINGLE PLY MEMBRANE



Type no.	EAN no.	D	Z	H	H2	D2	X5	T
402.204.040	5705499132854	40	280x280	502	82	140	12	2
402.204.050	5705499132861	50	280x280	502	82	140	12	2
402.204.075	5705499132878	75	280x280	502	82	140	12	2
402.206.040	5705499132885	40	280x280	702	82	140	12	2
402.206.050	5705499132892	50	280x280	702	82	140	12	2
402.206.075	5705499132908	75	280x280	702	82	140	12	2

Flow rate in accordance with "Flow rates for roof drains"

ROOF DRAIN TYPE 403.20
WITH FLANGE FOR BITUMEN AND PRE-MOUNTED BITUMEN COLLAR

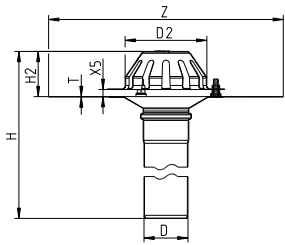


Type no.	EAN no.	D	Z	H	H2	D2	X5	T
403.204.040	5705499133172	40	400x400	496	78	140	12	1
403.204.050	5705499133189	50	400x400	496	78	140	12	1
403.204.075	5705499133196	75	400x400	496	78	140	12	1

Flow rate in accordance with "Flow rates for roof drains"

for gravity

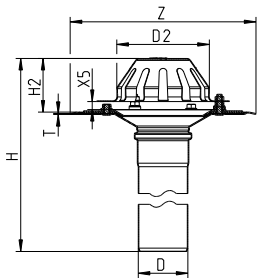
ROOF DRAIN TYPE 401.10
WITH FLANGE FOR BITUMEN



Type no.	EAN no.	D	Z	H	H2	D2	X5	T
401.104.050	5705499132731	50	400x400	495	77	140	12	1
401.104.075	5705499132748	75	400x400	495	77	140	12	1
401.104.110	5705499132755	110	400x400	495	77	140	12	1

Flow rate in accordance with "Flow rates for roof drains"

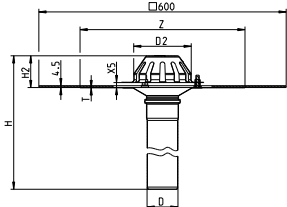
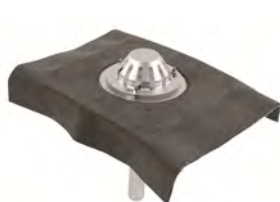
ROOF DRAIN TYPE 402.10
WITH CLAMPING FLANGE FOR SINGLE PLY MEMBRANE



Type no.	EAN no.	D	Z	H	H2	D2	X5	T
402.104.050	5705499132762	50	280x280	501	81	140	12	2
402.104.075	5705499132779	75	280x280	501	81	140	12	2
402.104.110	5705499132786	110	280x280	501	81	140	12	2
402.106.050	5705499132793	50	280x280	701	81	140	12	2
402.106.075	5705499132809	75	280x280	701	81	140	12	2
402.106.110	5705499132816	110	280x280	701	81	140	12	2

Flow rate in accordance with "Flow rates for roof drains"

ROOF DRAIN TYPE 403.10
WITH FLANGE FOR BITUMEN AND PRE-MOUNTED BITUMEN COLLAR



Type no.	EAN no.	D	Z	H	H2	D2	X5	T
403.104.050	5705499133141	50	400x400	495	77	140	12	1
403.104.075	5705499133158	75	400x400	495	77	140	12	1
403.104.110	5705499133165	110	400x400	495	77	140	12	1
403.106.050	5705499133394	50	400x400	695	77	140	12	1

Continues on next page

for gravity

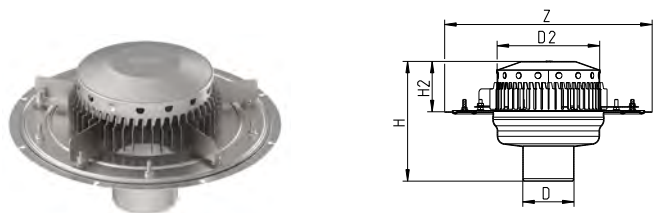
ROOF DRAIN TYPE 403.10

Type no.	EAN no.	D	Z	H	H2	D2	X5	T
Continued from previous page								
403.106.075	5705499133400	75	400x400	695	77	140	12	1
403.106.110	5705499133417	110	400x400	695	77	140	12	1

Flow rate in accordance with "Flow rates for roof drains"

ROOF DRAIN TYPE 408.101

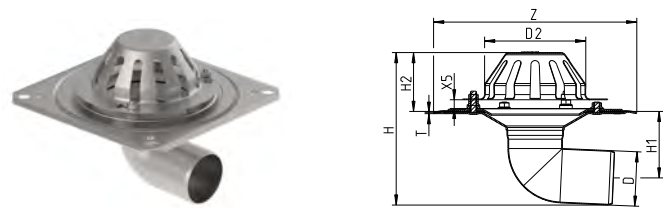
WITH CLAMPING FLANGE FOR BITUMEN AND SINGLE PLY MEMBRANE



Type no.	EAN no.	D	Z	H	H2	D2
408.101.125	5705499139013	125	507	293	123	250
408.101.160	5705499139020	160	507	303	123	250

ROOF DRAIN TYPE 402.100

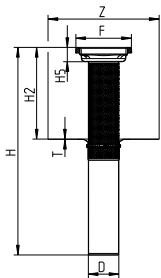
WITH CLAMPING FLANGE FOR SINGLE PLY MEMBRANE



Type no.	EAN no.	D	Z	H	H1	H2	D2	X5	T
402.100.050	5705499133363	50	280x280	186	80	81	140	12	2
402.100.075	5705499133370	75	280x280	210	92	81	140	12	2
402.100.110	5705499133387	110	280x280	234	99	81	140	12	2

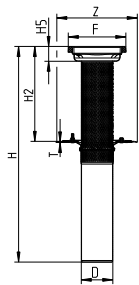
for gravity

ROOF DRAIN TYPE 401.170
WITH FLANGE FOR BITUMEN



Type no.	EAN no.	D	F	Z	H	H2	H5	T
401.170.110	5705499134872	110	200x200	400x400	748	330	51	1
401.170.160	5705499134889	160	200x200	400x400	748	330	40	2

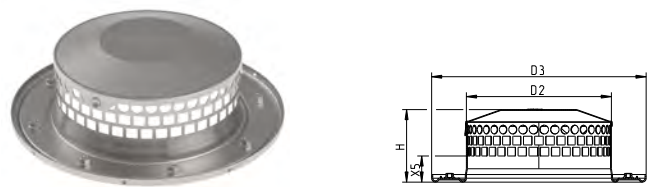
ROOF DRAIN TYPE 402.170
WITH CLAMPING FLANGE FOR SINGLE PLY MEMBRANE



Type no.	EAN no.	D	F	Z	H	H2	H5	T
402.170.110	5705499134896	110	200x200	280x280	750	330	51	2

for gravity

LEAF GUARD TYPE 405



Type no.	EAN no.	H	D2	D3	X5
405.000.000	5705499139044	86	250	370	0
405.035.000	5705499139051	115	250	370	35
405.045.000	5705499139068	125	250	370	45
405.055.000	5705499139075	135	250	370	55

Fits parapet drain lower part.

LOWER PART TYPE 405

WITH CLAMPING FLANGE FOR BITUMEN AND SINGLE PLY MEMBRANE

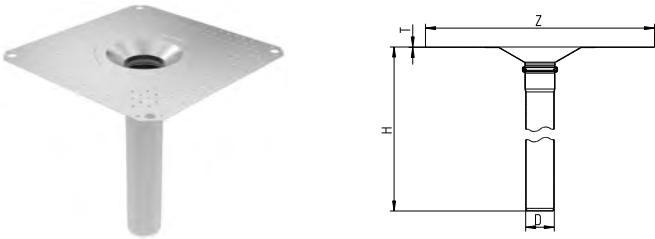


Type no.	EAN no.	D	D1	Z	H	H1	W1
405.000.075	5705499139037	75	140	409	97	92	1011

Fits leaf guards for parapet drains type 405.

LOWER PART FOR ROOF DRAIN TYPE 401.00

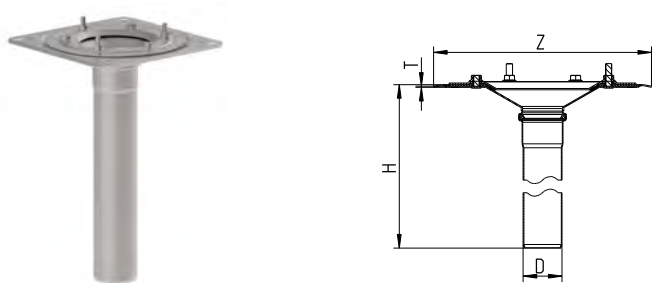
WITH FLANGE FOR BITUMEN



Type no.	EAN no.	D	Z	H	T
401.004.040	5705499132915	40	400x400	418	1
401.004.050	5705499132922	50	400x400	418	1
401.004.075	5705499132939	75	400x400	418	1
401.004.110	5705499132946	110	400x400	418	1
401.004.160	5705499134513	160	400x400	418	2

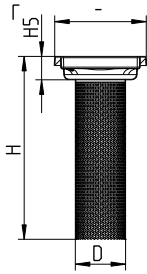
LOWER PART FOR ROOF DRAIN TYPE 402.00

WITH CLAMPING FLANGE FOR SINGLE PLY MEMBRANE



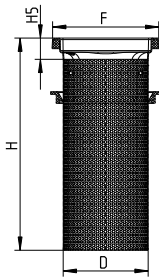
Type no.	EAN no.	D	Z	H	T
402.004.040	5705499132953	40	280x280	420	2
402.004.050	5705499132960	50	280x280	420	2
402.004.075	5705499132977	75	280x280	420	2
402.004.110	5705499132984	110	280x280	420	2

UPPER PART FOR ROOF DRAIN TYPE 710



Type no.	EAN no.	D	F	H	H5
710.472.000.01 S	5705499127775	110	200x200	400	51

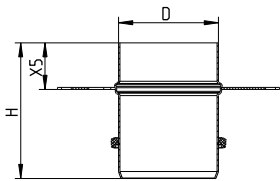
UPPER PART FOR ROOF DRAIN TYPE 774



Type no.	EAN no.	D	F	H	H5
774.472.000.01 S	5705499127782	160	200x200	400	40

EMERGENCY DRAIN STAND PIPE TYPE 400.100

FOR ROOF WITH GRAVITY DRAINAGE

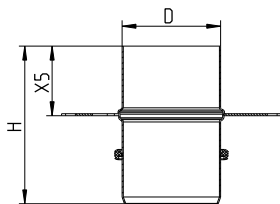


Type no.	EAN no.	D	H	X5	Max Flow (l/s)
400.100.050	5705499132991	50	105	35	6.2
400.100.075	5705499133004	75	102	35	11.5
400.100.110	5705499133011	110	107	35	9.7

Flow rate measured 35mm above top of pipe (70mm above surface of roof)

EMERGENCY DRAIN STAND PIPE TYPE 400.200

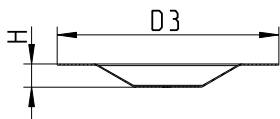
FOR ROOF WITH SIPHONIC DRAINAGE



Type no.	EAN no.	D	H	X5	Max Flow (l/s)
400.200.050	5705499133028	50	123	55	6.1
400.200.075	5705499133035	75	120	55	12.8

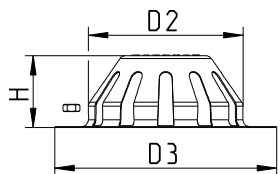
Flow rate measured 35mm above top of pipe (90mm above surface of roof)

SIPHONIC PLATE



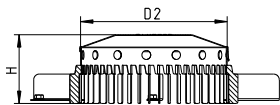
Type no.	EAN no.	H	D3
400.000.100	5705499133110	21	200

LEAF GUARD TYPE 400.000



Type no.	EAN no.	H	D2	D3
400.000.001	5705499133127	65	140	200

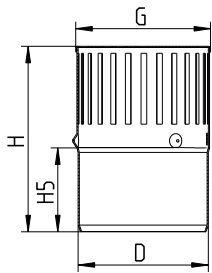
LEAF GUARD TYPE 408.000



Type no.	EAN no.	H	D2
408.000.000	5705499139082	117	250

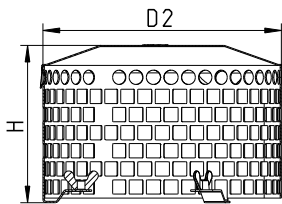
For roof drains with 125-160 mm outlet.

LEAF GUARD TYPE 898



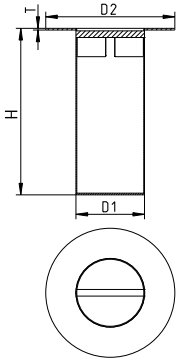
Type no.	EAN no.	D	G	H	H5
898.001.110 S	5705499412260	110	Ø114	157	71
898.001.160 S	5705499412277	160	Ø114	192	101

STONE GUARD FOR ROOF DRAINS
FOR ROOF DRAINS TYPE 40X.10X.XXX



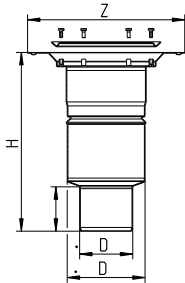
Type no.	EAN no.	H	D2
400.000.005	5705499133431	165	250

SAND BUCKET



Type no.	EAN no.	D1	H	D2	T
780.002.005.00	5705499134544	82	200	155	2
780.003.005.00	5705499134551	125	200	155	2

MEMBRANE LOWER PART TYPE 440
WITH STEEL CLAMPING RING



Type no.	EAN no.	D	D1	Z	H	H1
440.226.075	5705499101331	75	110	Ø222	253	63
440.226.110	5705499101355	110	110	Ø222	164	-

Suitable for leaf guard type 640 and 898

SEALING RING
FOR ROOF DRAIN TYPE 402



Type no.	EAN no.	D2	D3	T	Material
400.000.004	5705499133424	150	200	1.5	Si
400.000.006	5705499135213	140	200	1.5	EPDM

For roofs with TPO/FPO-membranes.

ROOF DRAIN INSULATION TYPE 400.001



Type no.	EAN no.	D2	D3	X5
400.001.040	5705499133059	45	86	330
400.001.050	5705499133066	56	98	330
400.001.075	5705499133073	78	122	330
400.001.110	5705499133080	118	165	330

ELECTRICAL HEATING CABLE

0,8M HEATING CABLE + 1,0M RUBBER CABLE



Type no.	EAN no.
400.000.000	5705499133042

Voltage = 230V

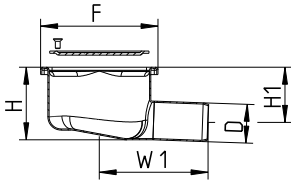
SET OF NUTS FOR ROOF DRAIN



Type no.	EAN no.
400.000.003	5705499133202

BALCONY DRAIN SQUARE, 100X100 TYPE 182

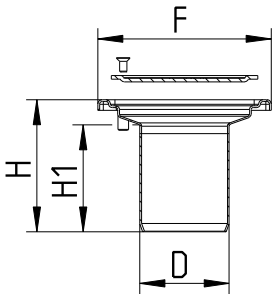
WITH SCREW LOCK



Type no.	EAN no.	D	F	H	H1	W1
182.105.032	5705499120370	32	97x97	60	46	90

BALCONY DRAIN SQUARE, 100X100 TYPE 183

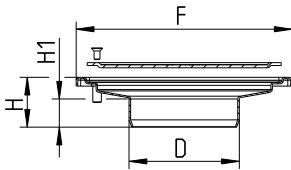
WITH SCREW LOCK



Type no.	EAN no.	D	F	H	H1
183.101.040	5705499120295	40	97x97	62	47
183.101.050	5705499120301	50	97x97	74	60
183.101.075	5705499120318	75	97x97	26	20

BALCONY DRAIN SQUARE, 150X150 TYPE 183

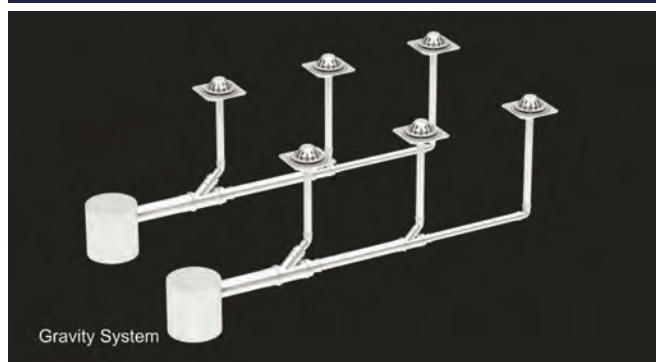
WITH SCREW LOCK



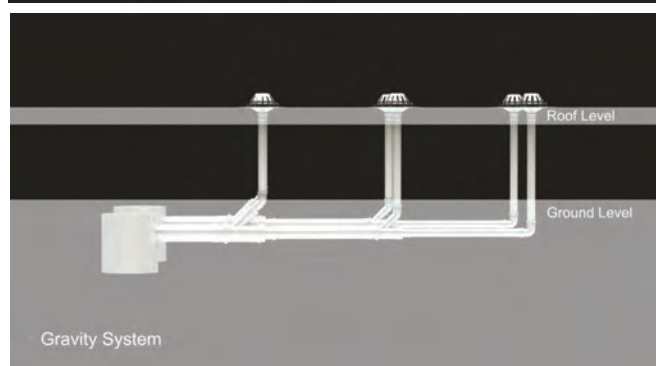
Type no.	EAN no.	D	F	H	H1
183.151.075	5705499120325	75	147x147	34	19
183.151.100	5705499120332	100	147x147	35	25

Gravity and siphonic roof drainage systems

BLÜCHER® gravity roof drainage



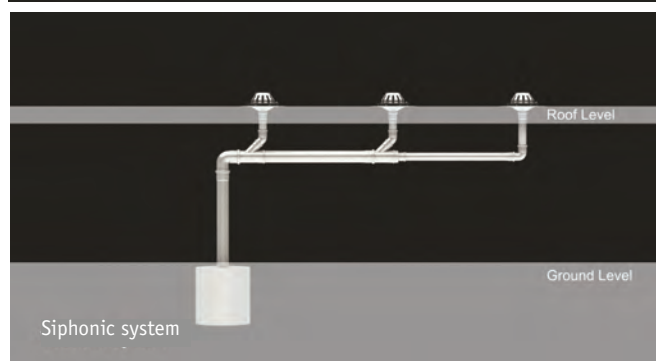
Traditional gravity system with drains spread over the roof area and water led from the roof through downpipes to a below-ground pipework system



BLÜCHER® siphonic roof drainage



Siphonic system with fewer drains and a small-diameter horizontal pipework system underneath the ceiling. More water is transported through the pipework due to faster flow and a filled pipework system, reducing if not completely removing below-ground drainage.



Gravity and siphonic roof drainage systems

Advantages of BLÜCHER® roof drainage

All in stainless steel AISI 304 or AISI 316L	Corrosion-resistant, temperature-resistant and impact-resistant Not affected by UV Minimal expansion caused by temperature changes Retains its aesthetically pleasing finish, requiring minimal maintenance Robust construction that resists vandalism 100% recyclable
Fire-approved	Non-combustible, fire rated A1
Thin-walled pipes	Light-weight and easy to handle, makes installation fast and easy and provides better working environment Fewer fixing points required due to the low weight of the pipework system Larger inside diameter in combination with the low surface roughness of stainless steel provides up to 30% higher flow capacity compared to similar outside diameter cast-iron pipes
Smooth inside surface	Excellent self-cleansing properties High flow rate Prevents blockages
Push-fit jointing	Fast and easy pipe assembly
Pipe sizes OD 40 - 315 mm and lengths 0,15 - 6 meters	Compact dimensions take up less space Less cutting to size required, thereby less installation costs
Equally suitable for siphonic and gravity	One pipework system fits all applications
Equipotential bonding	BLÜCHER® EuroPipe is designed to be equipotentially bonding from drain to sewage

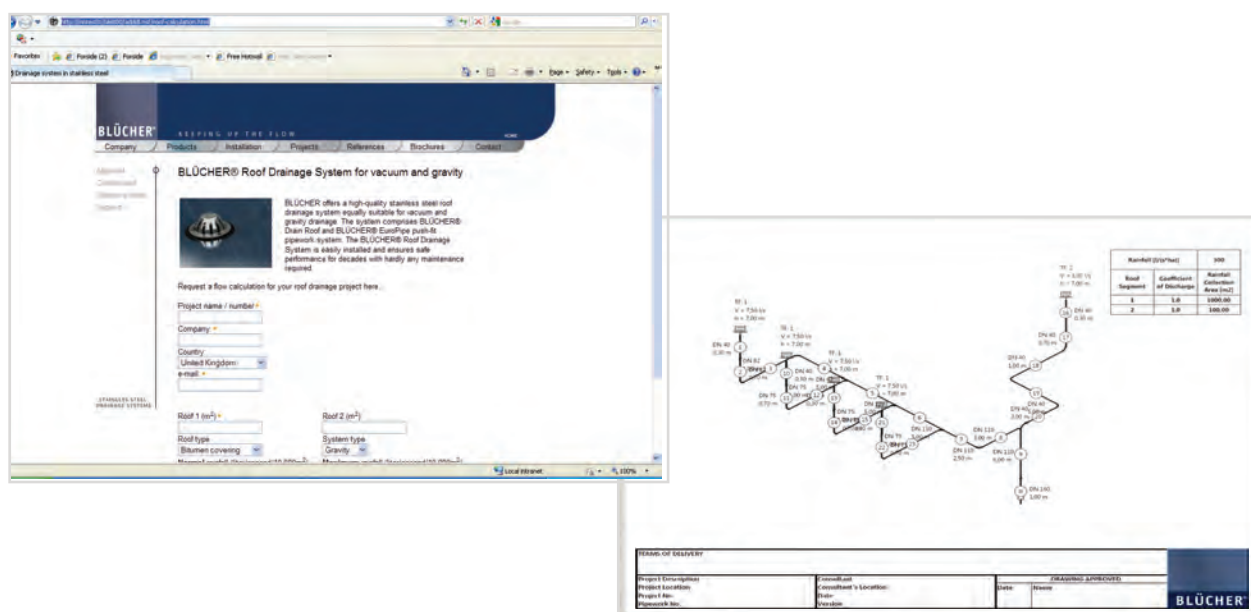
BLÜCHER® siphonic roof drainage offers the added advantages of

Only one downpipe to the ground	Less piping necessary Less below-ground work
Fewer roof drains required	Fewer cut-outs in the roof required, thereby lower costs
Small pipe diameters	Light-weight, takes up less space as compared to traditional plastic or cast-iron systems
Pipes approved for vacuum	Safe solution: OD 40 - 75 mm = -0,85 bar; OD 110 mm = -0,60 bar
Horizontal pipes without fall	Ease of installation

Flow calculations

BLÜCHER offers to assist with the design and calculations.

Enquiries can be submitted to mail@blucher.co.uk, or call BLÜCHER on: +01937 838000



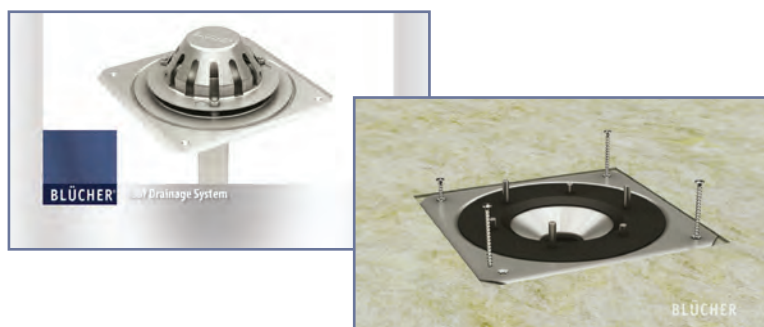
The screenshot displays the BLÜCHER website's flow calculation tool. The interface includes a navigation menu with 'Company', 'Products', 'Installation', 'Projects', 'References', 'Brochures', and 'Contact'. The main content area is titled 'BLÜCHER® Roof Drainage System for vacuum and gravity' and describes the system's components and benefits. A form for requesting a flow calculation is visible, with fields for 'Project name / number', 'Company', 'Country' (set to 'United Kingdom'), 'e-mail', 'Roof 1 (m²)', 'Roof 2 (m²)', 'Roof type' (set to 'Blumen covering'), and 'System type' (set to 'Gravity').

Below the form is a technical diagram of a roof drainage system. The diagram shows a network of pipes and drains with various labels such as 'DN 40', 'DN 50', 'DN 75', 'DN 100', 'DN 125', 'DN 150', and 'DN 200'. A table on the right side of the diagram provides data for the system:

Roof Segment	Roof Area (m²)	Roof Slope (%)	Roof Type
1	1.0	0.0	Blumen
2	2.0	0.0	Blumen

At the bottom of the diagram, there is a section for 'Details of System' with fields for 'Project Description', 'Project Location', 'Project Date', 'Project Name', 'Project Location', 'Project Date', 'Project Name', and 'Project Location'. The BLÜCHER logo is visible in the bottom right corner.

Installation video for BLÜCHER® Drain Roof is available at www.blucher.co.uk



BLÜCHER® Drain Roof

Siphonic drains and gravity drains

BLÜCHER® Drain Roof - siphonic

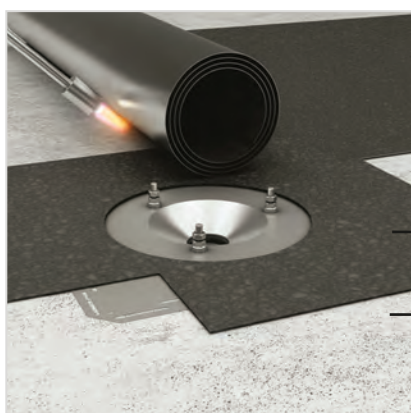
Owing to the siphonic plate of the drain, the pipe is quickly 100% filled, keeping air out of the system and allowing full bore discharge to induce a siphonic action resulting in higher velocities and greater discharge.

BLÜCHER® Drain Roof - gravity

Traditional gravity drainage system with pipes filled max. 33%.

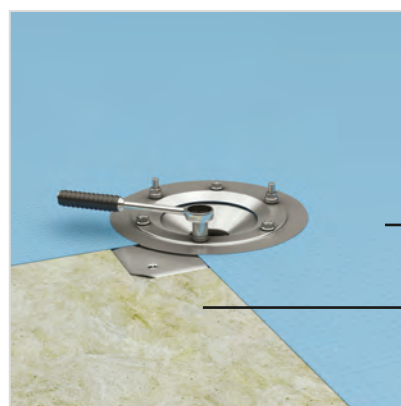
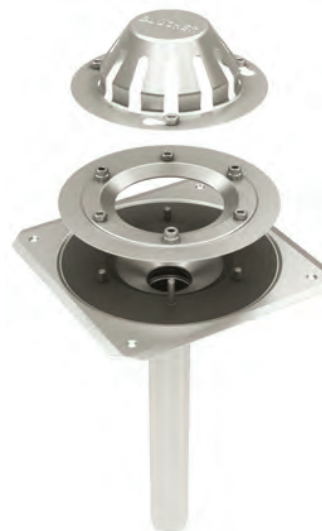
Both types of drains are available for roofs with bitumen or roofs with single ply roof membrane, shown above are drains for roofs with single ply roof membrane.

BLÜCHER® Drain Roof for bitumen and single ply roof membrane

BLÜCHER® Drain Roof for bitumen


Bitumen

Concrete/insulation

BLÜCHER® Drain Roof for single ply roof membrane

Single ply roof
membrane

Concrete/insulation



Roof drains for bitumen are also available with premounted bitumen collar quality PF 5200 SBS as recommended by Danish roofing felt information council TOR

In connection with single ply roof membranes it is important that the sealing material of the roof drain matches the material of the membrane to avoid migrating of softeners from PVC to the other material, since this could make the PVC material brittle, resulting in a higher risk of cracking.

BLÜCHER® Drain Roof comes as standard with a PVD sealing ring for use with PVC membranes. As alternative, to be purchased separately, we offer a SI sealing ring which is recommended for use with TPO/FPO membranes.



Both types of drains are available as siphonic drains and as gravity drains, shown above are siphonic drains.

BLÜCHER® Drain Roof with perforated upper part for green roofs and similar applications

BLÜCHER® Drain Roof with perforated upper part for bitumen



BLÜCHER® Drain Roof with perforated upper part for single ply membrane



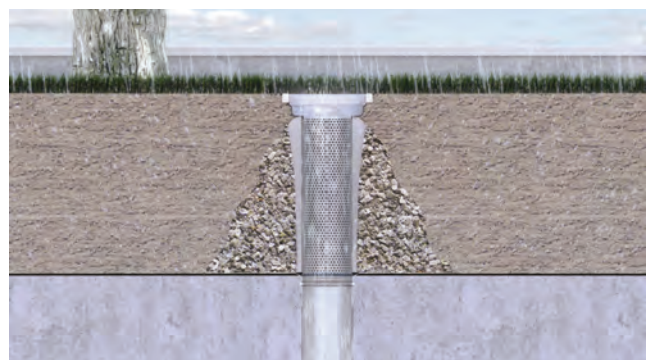
Outdoor drains

Stainless steel drains for roof gardens, green roofs and over below-ground car parks.

The drain is installed in the roof structure, usually comprising concrete deck, membrane, insulation, gravel, sand and stone paving.

The outdoor drain consists of an adjustable upper part 200x200 with a perforated pipe OD110 or 160 mm, which can be cut to length. The upper part fits into the BLÜCHER® Drain Roof lower parts for single-ply membrane and bitumen in gravity drainage systems.

Through the perforated pipe between frame and lower part water is drained from the sand or gravel in which the drain is installed, and into the lower part. To prevent sand and gravel from getting into the drain together with the drainage water, the perforated pipe is to be wrapped in a textile cloth.



A sand bucket and a range of gratings are available for the outdoor drains.

Applicable standards

EN 1253

BLÜCHER® Drain Roof has been tested by LGA Würzburg and complies with the requirements of EN 1253 2.

BLÜCHER has its own state-of-the-art laboratory with facilities to design and develop drainage products in accordance with EN 1253.

BLÜCHER is committed to offering a thoroughly tested roof drainage system that complies with applicable standards and regulations as to performance and installation.



EN 12056, DS 432 and VDI 3806

BLÜCHER recommends installation in accordance with DS 432/EN 12056 3 and VDI 3806. This ensures that the BLÜCHER® roof drainage system can be used in all common building projects in Europe.

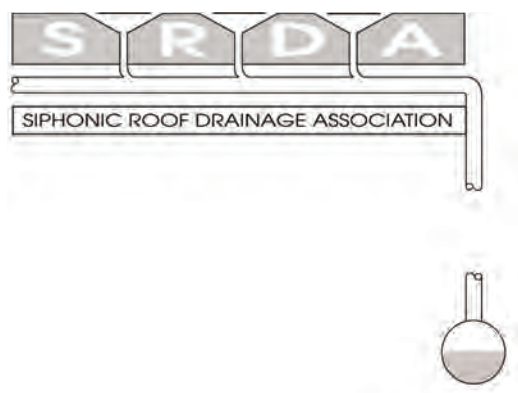
VDI 3806 are guidelines for siphonic roof drainage, used as applicable guidelines in the EU.

TOR recommendations

BLÜCHER® roof drainage system complies with the recommendations of TOR (Danish roofing felt information council).

SRDA

Member of SRDA - Siphonic Roof Drainage Association. Comply hereby to BS8490:2007



Fire approved

Fire rated A1

Accessories

Emergency drainage

All roof drainage systems require emergency drainage to ensure that the roof remains water tight in the event of a rain storm rate in excess of the chosen design storm rate. For roofs with bitumen and for roofs with single ply roof membrane BLÜCHER offers an emergency drainage system to be installed in the same way as the common roof drainage system but with a separate BLÜCHER® EuroPipe downpipe leading water away from the roof.



Thermal insulation

Where there is a need for protecting the roof from condensate, an insulating sleeve can easily be fitted around the drain outlet. For BLÜCHER® Drain Roof we have selected a non-combustible insulation core which performs optimally even at temperatures on the roof below 5 °C, thus minimizing condensation.

Optionally, BLÜCHER® Drain Roof can be supplied with the insulating sleeve fitted to the drain outlet.



Trace heating

For installation in areas where ambient temperatures below 0 °C often occur, BLÜCHER offers a heating cable which is to be fitted around the roof drain and then covered by the insulating sleeve. This ensures a frost-free roof drain that will not be blocked by ice. The heating cable has a performance of 14,5 W per meter at an ambient temperature of 0 °C.

Optionally, BLÜCHER® Drain Roof can be supplied fitted with heating cable and insulating sleeve.



Installation

BLÜCHER® Drain Roof

Due to the small size of the drain bowl leading the water into the piping system, only a small hole in the roof or the insulation is necessary, and this can be drilled easily and quickly.

Secure the drain to the roof by fixing the flange by means of 4 screws, or optionally secure the drain to the membrane selected for the roof.



Drain outlet piping

The roof drains come with outlet pipes of either 400 or 600 mm length, and this makes it possible to penetrate the roof insulation without any pipe joints. This makes installation fast and safe, and below the insulation BLÜCHER® EuroPipe pipes and fittings can be fitted directly to the outlet piping.

If a shorter outlet pipe is requested, the outlet pipes can be cut to the desired length on site. For this purpose we recommend the BLÜCHER® pipe cutter. (see page P36)



Installation

Suspension and fixing of pipework

The following describes the fixing of pipes for vertical and horizontal pipe runs.

Vertical piping

All vertical pipework should be provided with pipe brackets at intervals not exceeding 3 metres. Brackets to be placed under ring seal sockets whenever possible.

Horizontal piping

All horizontal pipework should be provided with pipe brackets at intervals not exceeding 3 metres. Brackets to be placed under ring seal sockets whenever possible.

Additional brackets are required at each change of direction, i.e. bends and branches, to anchor the installation to the structure. If it is impractical to anchor to the structure, then hanging and raking fixings 847.000.000 along with joint clamps 847.xxx.xxx must be fitted to prevent movement.

If it is impractical to install hanging and raking fixings on a particular change of direction, then joint clamps 847.xxx.xxx can be used on all joints along the straight run or runs affected by the lack of restraint. Socket plugs type 844 need joint clamps type 847 to withstand internal pressure from a possible blockage.

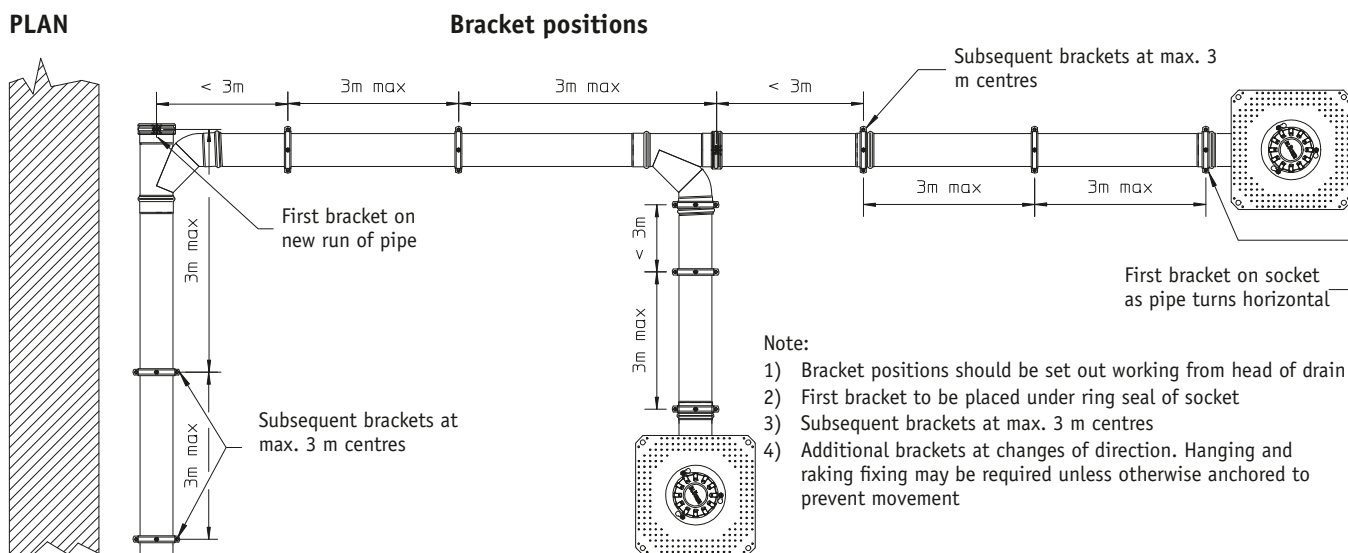
Recommended distances between pipe brackets (center - center)

Based on pipe brackets type 895.40x.xxx as offered by BLÜCHER

Pipe dimension	33% filled	50% filled	75% filled	100% filled
40	3,0 m	3,0 m	3,0 m	3,0 m
50	3,0 m	3,0 m	3,0 m	3,0 m
75	3,0 m	3,0 m	3,0 m	3,0 m
82	3,0 m	3,0 m	3,0 m	3,0 m
110	3,0 m	3,0 m	3,0 m	3,0 m
125	3,0 m	3,0 m	3,0 m	3,0 m
160	3,0 m	3,0 m	3,0 m	3,0 m
200	3,0 m	3,0 m	3,0 m	3,0 m
250	3,0 m	3,0 m	3,0 m	2,5 m
315	3,0 m	3,0 m	3,0 m	2,5 m

Gravity installation

We recommend the use of pipe joint clamps at the first 1 or 2 vertical joint(s) under the sealing to keep the roof drain locked to the pipework system. The maximum distances between pipe brackets can be seen in the table "Recommended distances between pipe brackets" - please note that in case of a blockage the pipes may be filled 100%



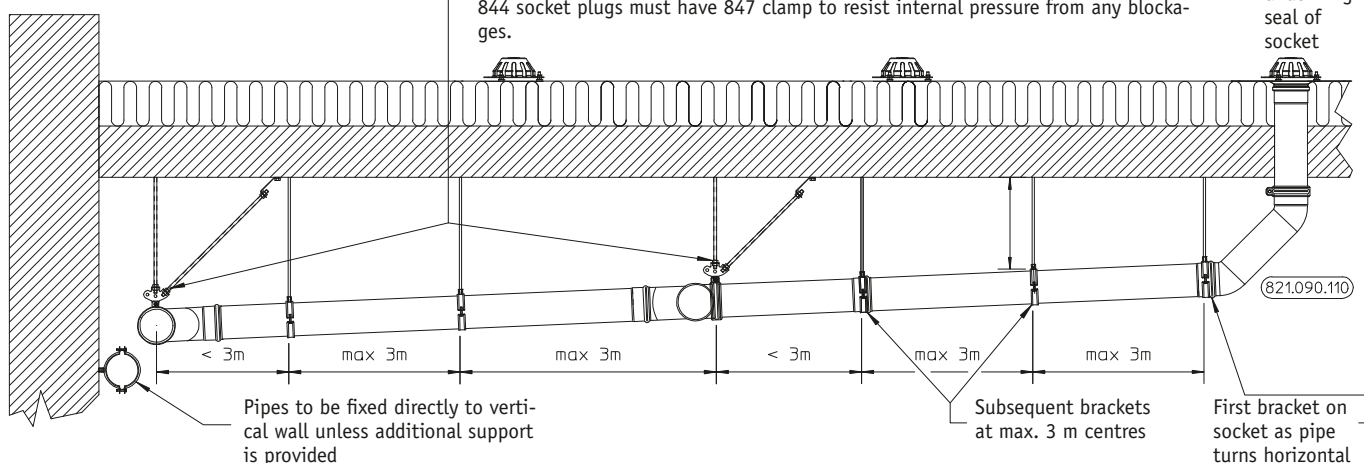
ELEVATION

Additional brackets required at change of direction i.e. bends and branches to anchor the installation to the structure. If it is impractical to anchor to the structure, then hanging and raking fixings 847.000.000 along with joint clamps 847.xxx.xxx MUST be fitted to prevent movement.

If it is impractical to install hanging and raking fixings on a particular change of direction, then 847 clamps can be used on all joints along the straight run or runs affected by the lack of restraint.

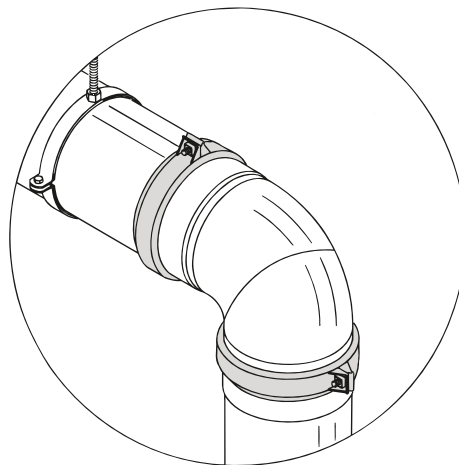
844 socket plugs must have 847 clamp to resist internal pressure from any blockages.

Brackets to be placed under ring seal of socket



Siphonic installation

We recommend the use of pipe joint clamps at each bend or bracket and the use of the BLÜCHER® mounting plate for suspension of the drainage pipework for each 3 metres. This will safeguard the pipework system against vibrations and keep the pipes in place in siphonic roof drainage installations. The maximum distances between pipe brackets can be seen in the table "Recommended distances between pipe brackets"



Pipe joint clamps type no. 847.
xxx.xxx may be required if walls
or soffits are not accessible for
brackets.

Emergency drains

All pipework to be installed in the same way as in vacuum systems, i.e. with pipe joint clamps at each bend or bracket.

Auxiliary products to BLÜCHER® roof drainage system

Balcony drains

Stainless steel balcony drains with low built-in height, long product-life expectancy and aesthetically pleasing design for your balcony.



183.101.OXX



183.151.XXX



182.105.032

Outdoor rainwater piping



All BLÜCHER® EuroPipe rainwater downpipes are vandal-resistant, combining the aesthetically pleasing look of stainless steel with vandal-proofing of the downpiping and the other inherent benefits of stainless steel material.

Channels

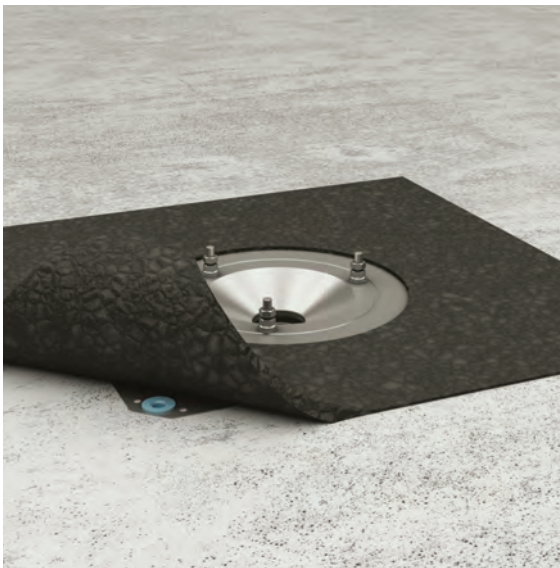
Stainless steel drainage channel system suitable as gutter around a defined area, in front of doors to prevent water flowing in through the door and to collect the water to be drained off the roof area.



Installation examples



Easy and simple installation in single ply roof membrane provides high strength and a secure solution.



Roof drains for bitumen have a wide collar for secure fixing to the bitumen.

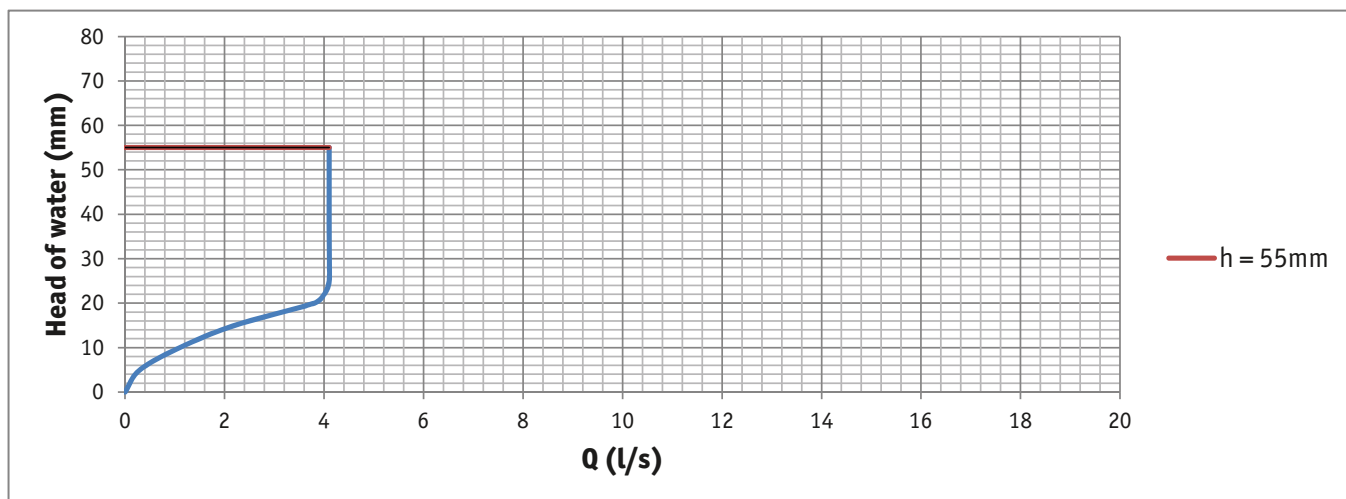
2-part roof drain

2-part roof drains can easily be installed on the roof. Use a standard roof drain in combination with a separate lower part matching the membrane type of the roof.



Flow rates for pipe dimension OD40 mm

BLÜCHER® Drain Roof - siphonic OD40 mm



Test information and basis

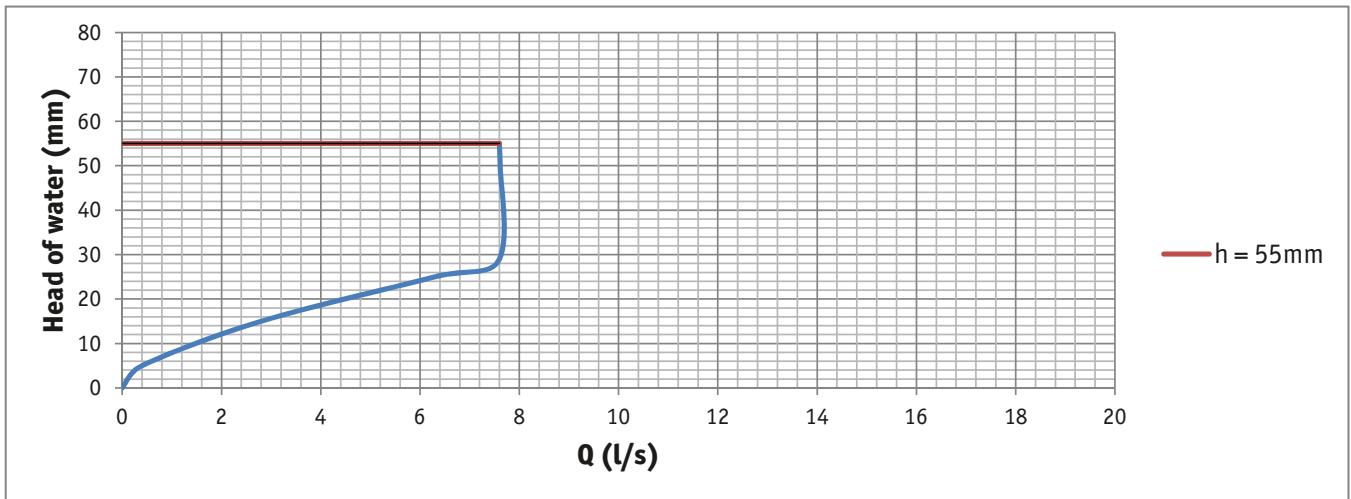
Flow test carried out at TÜV Rheinland LGA Products GmbH February 2011.

Siphonic flow tested in accordance with EN1253 1+2 and carried out according to 1253-2: 2003 page 16 Figure 8D

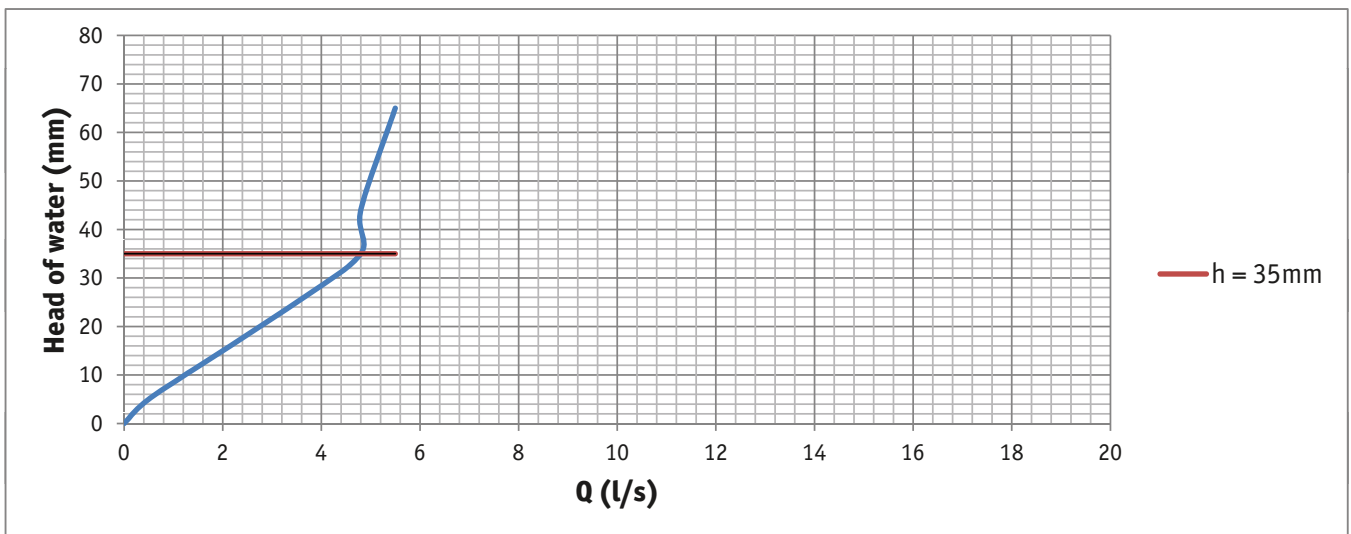
Gravity flow tested in accordance with EN1253 1+2 and carried out according to 1253-2: 2003 page 16 Figure 8C

Flow rates for pipe dimension OD50 mm

BLÜCHER® Drain Roof - siphonic OD50 mm



BLÜCHER® Drain Roof - gravity OD50 mm



Test information and basis

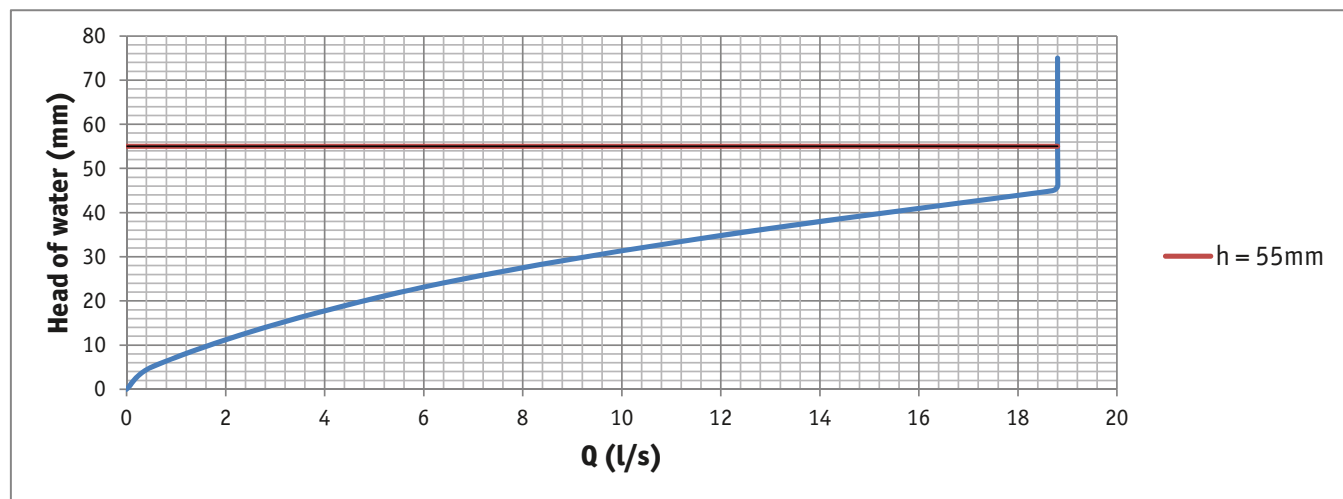
Flow test carried out at TÜV Rheinland LGA Products GmbH February 2011.

Siphonic flow tested in accordance with EN1253 1+2 and carried out according to 1253-2: 2003 page 16 Figure 8D

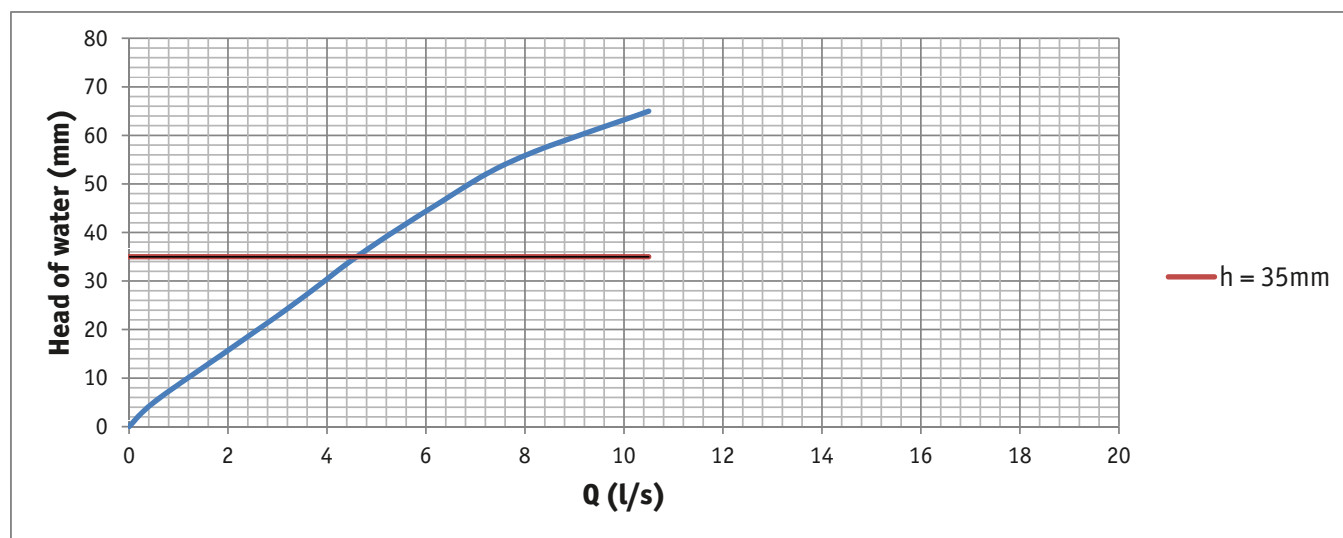
Gravity flow tested in accordance with EN1253 1+2 and carried out according to 1253-2: 2003 page 16 Figure 8C

Flow rates for pipe dimension OD75 mm

BLÜCHER® Drain Roof - siphonic OD75 mm



BLÜCHER® Drain Roof - gravity OD75 mm



Test information and basis

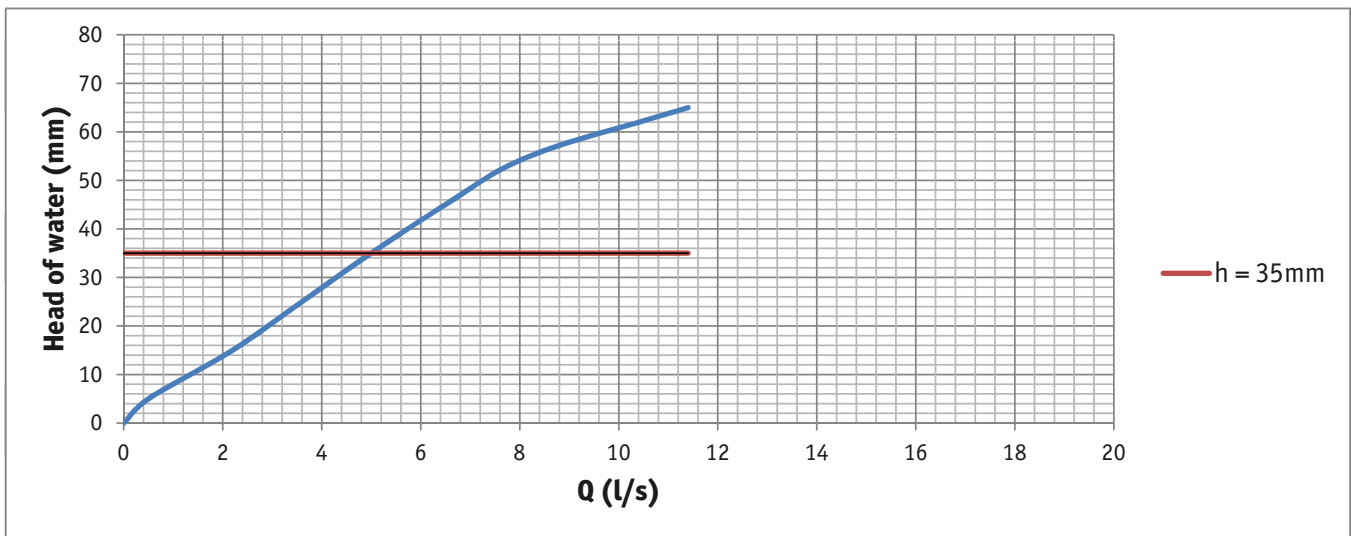
Flow test carried out at TÜV Rheinland LGA Products GmbH February 2011.

Siphonic flow tested in accordance with EN1253 1+2 and carried out according to 1253-2: 2003 page 16 Figure 8D

Gravity flow tested in accordance with EN1253 1+2 and carried out according to 1253-2: 2003 page 16 Figure 8C

Flow rates for pipe dimension OD110 mm

BLÜCHER® Drain Roof - gravity OD110 mm



Test information and basis

Flow test carried out at TÜV Rheinland LGA Products GmbH February 2011.

Siphonic flow tested in accordance with EN1253 1+2 and carried out according to 1253-2: 2003 page 16 Figure 8D

Gravity flow tested in accordance with EN1253 1+2 and carried out according to 1253-2: 2003 page 16 Figure 8C

Note: We recommend securing all BLÜCHER® EuroPipe pipe joints after the roof drains with pipe joint clamps type 847.XXX.XXX.

	Ø40 mm drains		Ø50 mm drains		Ø75 mm drains		Ø110 mm drains	
Drain type Outlet diameter	40X.204.040 Ø40 mm	40X.204.040 Ø40 mm	40X.204.050 Ø50 mm	40X.204.050 Ø50 mm	40X.204.075 Ø75 mm	40X.204.075 Ø75 mm	40X.204.110 Ø110 mm	40X.204.110 Ø110 mm
Down pipe	Ø160 mm	Ø40 mm	Ø160 mm	Ø50 mm	Ø160 mm	Ø75 mm	Ø160 mm	Ø110 mm
Head of water [mm]	2 [l/s]	3 [l/s]	5 [l/s]	6 [l/s]	8 [l/s]	9 [l/s]	11 [l/s]	12 [l/s]
0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
5	0,5	0,4	0,5	0,4	0,4	0,5	0,5	0,5
15	1,8	1,9	1,2	2,1	1,7	1,8	1,8	2,4
25	2,3	3,5	4,1	4,6	2,7	4,8	3,5	5,2
35	3,1	3,5	4,2	6,3	3,0	8,8	5,6	8,4
45	3,2	3,5	4,2	6,4	3,3	13,3	5,7	12,3
55	3,3	3,5	4,2	6,4	3,4	14,4	5,8	ca. 17,5

Test information and basis

Flow test carried out in accordance with EN1253-1, 8.11.1 (gravity), min. 1,7 l/s at 35 mm head of water

Test set-up in accordance with EN1253-2 11.2, figure 8c

Conditions:

Limits for maximum water volume in downpipes are specified in local and European regulations.

The requirements to which the acceptable flow is to be designed, are described in EN12056-3.

BLÜCHER always recommend complying with and dimensioning in accordance with applicable national and European standards.

BLÜCHER® EuroPipe offers considerable advantages when it comes to flow rates due to the large internal pipe diameter.

The table below shows flow values for BLÜCHER® EuroPipe (vertical piping) based on the Wyly-Eaton equation used in EN12056-3:2000 item 6 table 8.

Flow rate			
Outside pipe diameter mm	Inside pipe diameter mm	Filling	
		0,2	0,33
40	38	0,35	0,81
50	48	0,66	1,51
75	73	2,01	4,63
82	80	2,56	5,91
110	108	5,71	13,15
125	123	8,07	18,60
160	157,5	15,61	35,97
200	197	28,36	65,34
250	247	51,84	119,45
315	311	95,83	220,82

Kb value: 0,25 mm

Drains for commercial applications



Shower drains for tiled, resin and vinyl floors

bimready
files at bimstore.co.uk

Applications

For tiled and vinyl floors in:

- Private housing bathrooms
- Toilets and showers in hotels, hospitals, fitness centres, etc.

Details

- Square, triangular or circular frame
- Brushed grain finish
- Low frame height
- Grate with starlock screw-system
- Stainless steel AISI304/EN 1.4301 or AISI316L/EN 1.4404

Variants

- Side inlets Ø32/40 mm
- Vertical or horizontal outlet
- Flange for liquid or sheet membrane
- Adjustable height, rotation and tilt

Options

- Removable water trap
- Design gratings in 3 shapes and 6 designs

Series

- Series 100 without flange for concrete and tiled floors
- Series 200 for vinyl floors
- Series 300 with liquid or sheet membrane flange for concrete and tiled floors

Product database at www.blucher.co.uk

Complete drains

Concrete and tiles without membrane



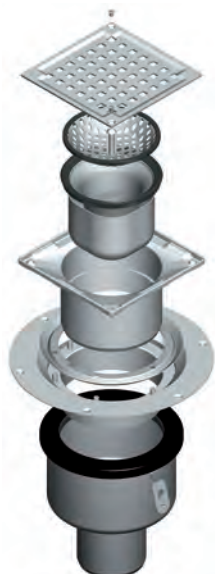
- Standard grating VIENNA included
- Optional design gratings available
- Optional filter basket
- Optional removable water trap
- Adjustable upper part
- Lower part with or without side inlets

Concrete and tiles with liquid membrane



- Standard grating VIENNA included
- Optional design gratings available
- Optional filter basket
- Optional removable water trap
- Adjustable upper part
- Flange
- Lower part with or without side inlets

Concrete and tiles with sheet membrane



- Standard grating VIENNA included
- Optional design gratings available
- Optional filter basket
- Optional removable water trap
- Adjustable upper part
- Adjustable clamping flange
- Lower part with or without side inlets

Vinyl



- Standard grating VIENNA included
- Optional design gratings available
- Clamping ring
- Optional inlet deflector
- Optional filter basket
- Optional water trap
- Adjustable upper part
- Lower part with or without side inlets

Complete drains

Drain

Adjustable 2-part drains or non-adjustable 1-part drains

Grating

Standard VIENNA grating is included. Optional design gratings are not included - to be ordered separately

Water trap

Removable water trap not included - to be ordered separately.

Other accessories

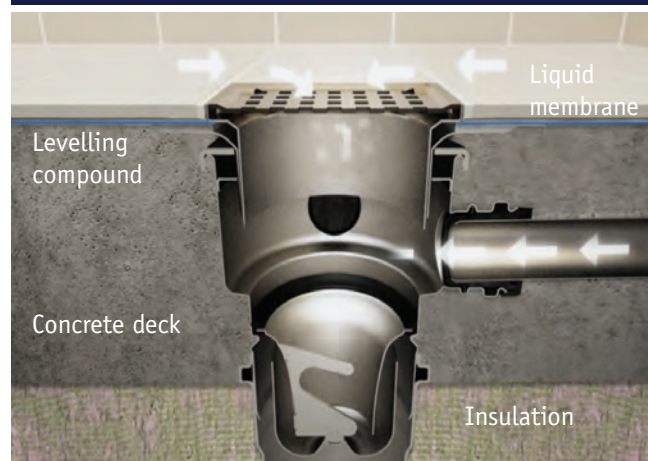
Other accessories such as filter basket not included - to be ordered separately. Most drains with side inlets come with inlet deflector.

Installation examples

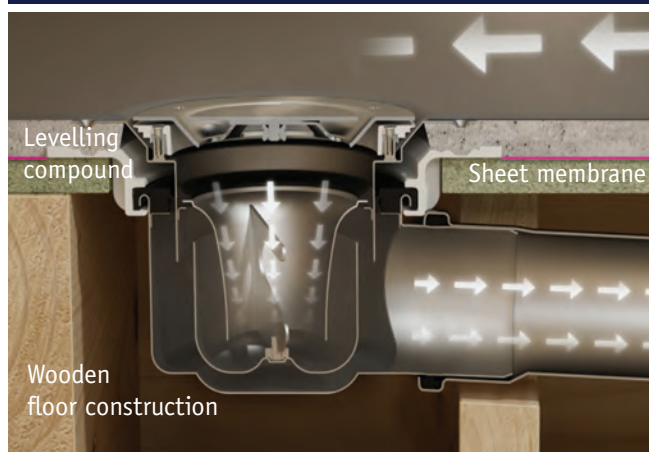
Concrete and tiles without membrane



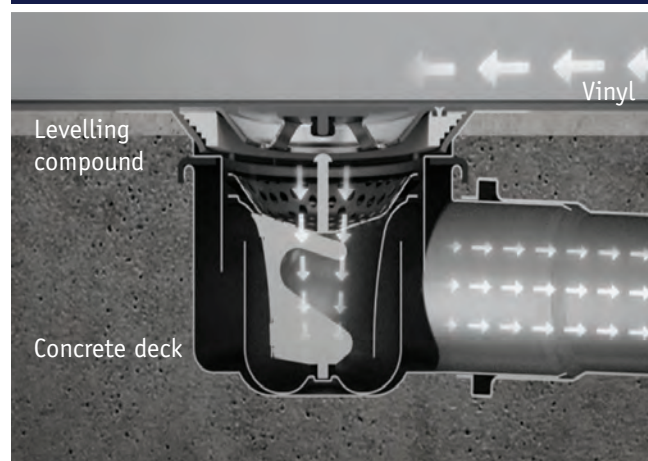
Concrete and tiles with liquid membrane



Concrete and tiles with sheet membrane



Vinyl



Two-part removable water trap



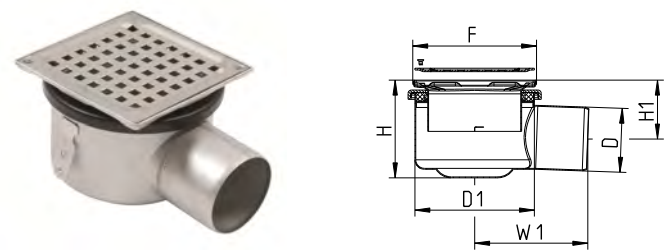
Due to its design the water trap has unique self-cleansing properties, and the slanted handle does not gather hair or dirt. Separable to facilitate cleaning.

After cleaning, assemble the two parts by screwing them together tightly.

Installation videos available at www.blucher.co.uk

without membrane

ADJUSTABLE SHOWER DRAIN SQUARE TYPE 110



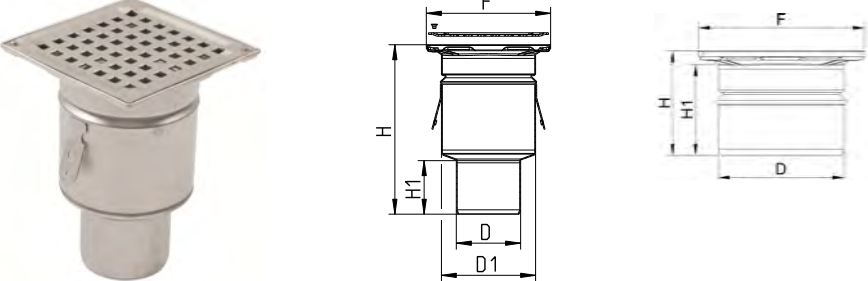
Type no.	EAN no.	D	D1	F	H	H1	W1
110.300.050	5705499124255	50	140	145x145	115-145	81-111	128
110.300.075	5705499104844	75	140	145x145	115-145	69-99	133

ADJUSTABLE SHOWER DRAIN SQUARE TYPE 150



Type no.	EAN no.	D	D1	F	H	H1
150.300.050	5705499124279	50	140	145x145	189-219	58
150.300.075	5705499104882	75	140	145x145	185-215	63
150.300.110	5705499104905	110	140	145x145	152-182	79

SHOWER DRAIN SQUARE TYPE 160

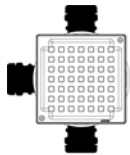
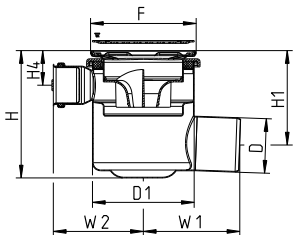


Type no.	EAN no.	D	D1	F	H	H1
160.300.050	5705499123586	50	110	145x145	193	60
160.300.075	5705499104967	75	110	145x145	198	63
160.300.110	5705499104981	110	110	145x145	91	79

without membrane

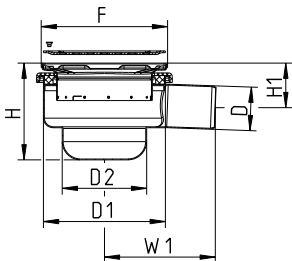
ADJUSTABLE SHOWER DRAIN SQUARE TYPE 111

WITH SIDE INLETS 50 MM



Type no.	EAN no.	D	D1	F	H	H1	H4	W1	W2
111.303.075	5705499123708	75	140	145x145	175-185	130-140	48-58	133	124

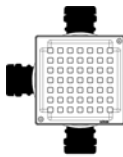
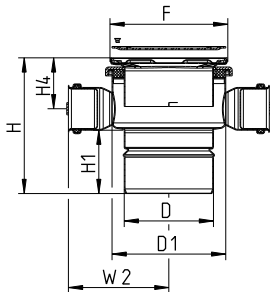
ADJUSTABLE SHOWER DRAIN SQUARE, LOW MODEL TYPE 114



Type no.	EAN no.	D	D1	F	H	H1	W1	D2
114.300.050	5705499118056	50	140	145x145	111-121	51-61	127	97

ADJUSTABLE SHOWER DRAIN SQUARE TYPE 151

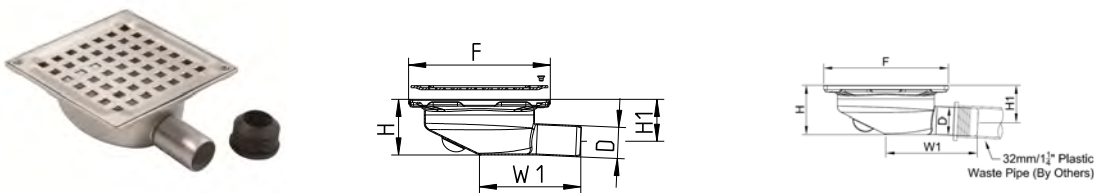
WITH SIDE INLETS 50 MM



Type no.	EAN no.	D	D1	F	H	H1	H4	W2
151.303.110	5705499123715	110	140	145x145	167-197	79	63-93	124

without membrane

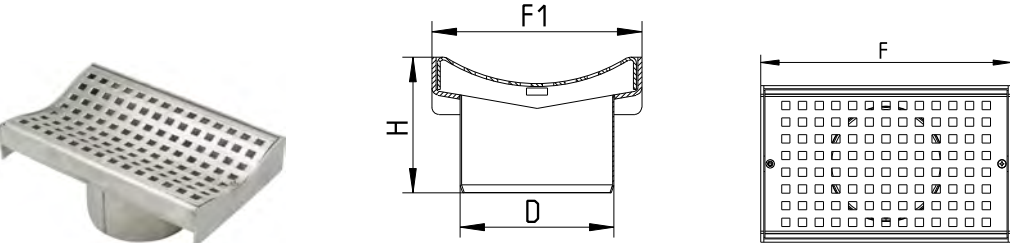
MINI DRAIN SQUARE TYPE 181



Type no.	EAN no.	D	F	H	H1	W1
181.300.032	5705499107364	32	145x145	57	43	104

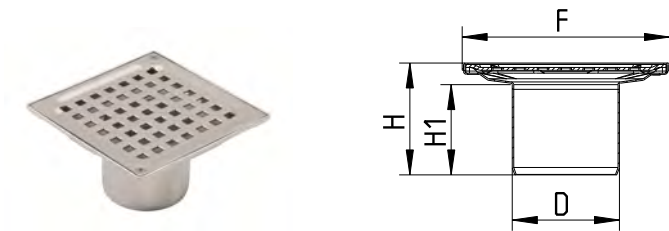
Not for removable water trap. Adaptor for D=40mm included

DRAIN SQUARE FOR SWIMMING-POOL SIDE TYPE 445



Type no.	EAN no.	D	F	F1	H
445.150.110 S	5705499113990	110	240	150	97

SHOWER DRAIN SQUARE, LOW MODEL TYPE 140

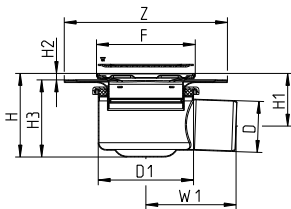


Type no.	EAN no.	D	F	H	H1
140.300.040	5705499107449	40	145x145	65	49
140.300.050	5705499106510	50	145x145	74	58
140.300.075	5705499104868	75	145x145	78	63

Not for removable water trap.

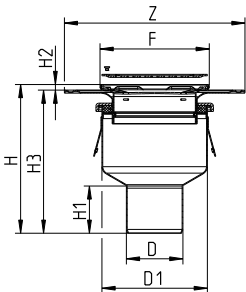
with liquid membrane

ADJUSTABLE SHOWER DRAIN SQUARE TYPE 310



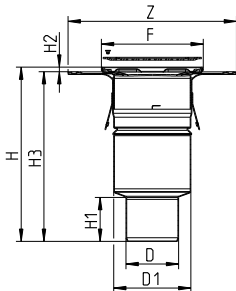
Type no.	EAN no.	D	D1	F	Z	H	H1	H2	H3	W1
310.300.050	5705499124347	50	140	145x145	Ø240	120-150	87-117	6.5-21	113-128	128
310.300.075	5705499105261	75	140	145x145	Ø240	120-150	75-105	6.5-21	113-128	133

ADJUSTABLE SHOWER DRAIN SQUARE TYPE 350



Type no.	EAN no.	D	D1	F	Z	H	H1	H2	H3
350.300.050	5705499124361	50	140	145x145	Ø240	194-224	58	6.5-21	188-203
350.300.075	5705499105346	75	140	145x145	Ø240	190-220	63	6.5-21	184-199
350.300.110	5705499105360	110	140	145x145	Ø240	158-188	79	6.5-21	152-167

ADJUSTABLE SHOWER DRAIN SQUARE TYPE 360



Type no.	EAN no.	D	D1	F	Z	H	H1	H2	H3
360.300.050	5705499124385	50	110	145x145	Ø240	244-259	60	6.5-21	237
360.300.075	5705499105506	75	110	145x145	Ø240	249-264	63	6.5-21	242
360.300.110	5705499105520	110	110	145x145	Ø240	142-157	-	6.5-21	135

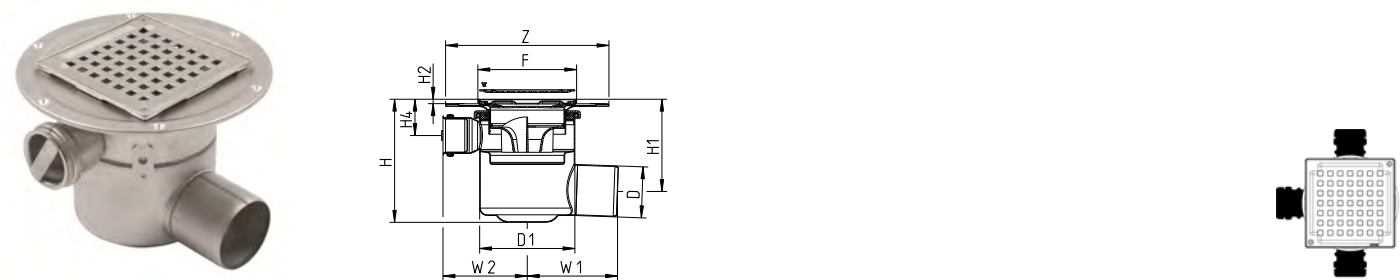
Flange is not adjustable.

with liquid membrane

BLÜCHER® DRAIN DOMESTIC

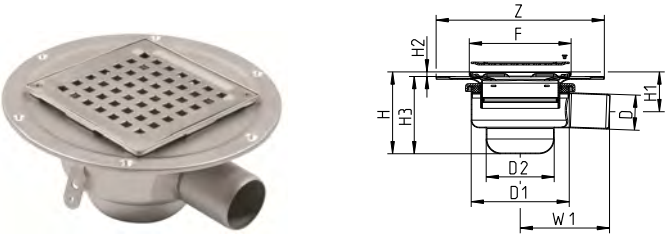
ADJUSTABLE SHOWER DRAIN SQUARE TYPE 311

WITH SIDE INLETS 50 MM



Type no.	EAN no.	D	D1	F	Z	H	H1	H2	H4	W1	W2
311.303.075	5705499123739	75	140	145x145	Ø240	181-211	136-166	6.5-21	53-83	133	124

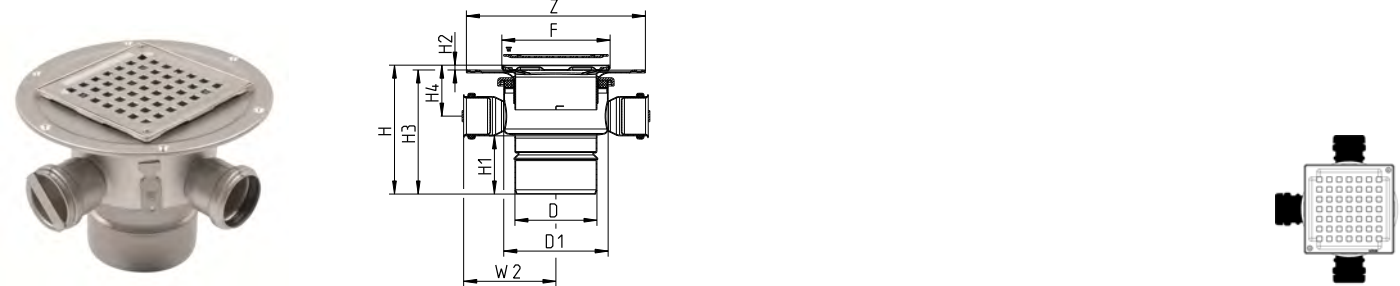
ADJUSTABLE SHOWER DRAIN SQUARE, LOW MODEL TYPE 314



Type no.	EAN no.	D	D1	F	Z	H	H1	H2	H3	W1	D2
314.300.040	5705499113969	40	140	145x145	Ø240	117-147	52-82	6.5-21	110-125	125	97
314.300.050	5705499118094	50	140	145x145	Ø240	117-147	57-87	6.5-21	110-125	127	97

ADJUSTABLE SHOWER DRAIN SQUARE TYPE 351

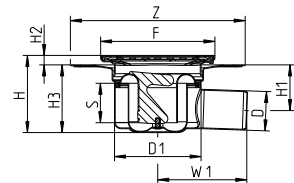
WITH SIDE INLETS 50 MM



Type no.	EAN no.	D	D1	F	Z	H	H1	H2	H3	H4	W2
351.303.110	5705499124408	110	140	145x145	Ø240	173-203	79	6.5-21	167-182	69-99	124

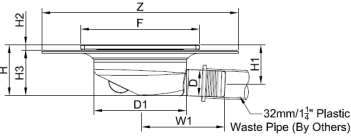
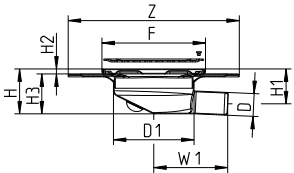
with liquid membrane

ADJUSTABLE SHOWER DRAIN SQUARE, LOW MODEL TYPE 382
WITH REMOVABLE WATER TRAP



Type no.	EAN no.	D	D1	F	Z	H	H1	H2	H3	S	W1
382.300.050 V	5705499131772	50	110	145x145	Ø222	95-105	58	9-19	86	50	113

MINI DRAIN SQUARE TYPE 381

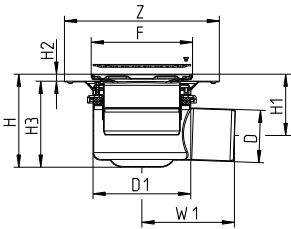


Type no.	EAN no.	D	D1	F	Z	H	H1	H2	H3	W1
381.300.032	5705499107401	32	113	145x145	Ø240	62-72	49-59	6-16	56	104

Not for removable water trap. Adaptor for D=40mm included.
Flange is not adjustable.

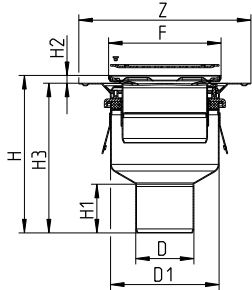
with sheet membrane

ADJUSTABLE SHOWER DRAIN SQUARE TYPE 312



Type no.	EAN no.	D	D1	F	Z	H	H1	H2	H3	W1
312.300.075	5705499105308	75	140	145x145	Ø222	133-188	88-143	10-50	123-138	133

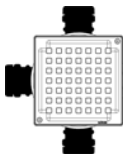
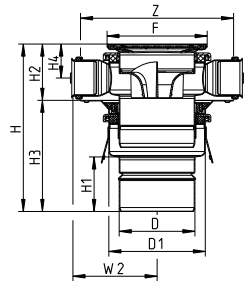
ADJUSTABLE SHOWER DRAIN SQUARE TYPE 352



Type no.	EAN no.	D	D1	F	Z	H	H1	H2	H3
352.300.075	5705499105421	75	140	145x145	Ø222	203-258	63	10-50	193-208
352.300.110	5705499105445	110	140	145x145	Ø222	171-226	79	10-50	161-176

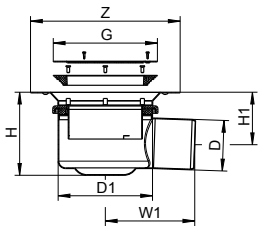
ADJUSTABLE SHOWER DRAIN SQUARE TYPE 353

WITH SIDE INLETS 50 MM



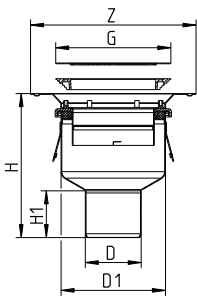
Type no.	EAN no.	D	D1	F	Z	H	H1	H2	H3	H4	W2
353.303.110	5705499123753	110	140	145x145	Ø222	243-304	79	82-128	161-176	50-60	122

ADJUSTABLE SHOWER DRAIN CIRCLE TYPE 210



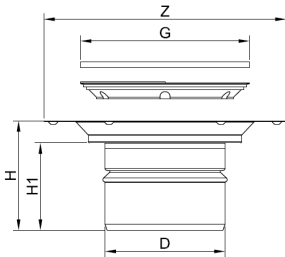
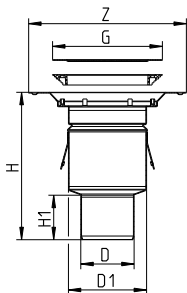
Type no.	EAN no.	D	Z	G	H	H1	W1
210.300.050	5705499124316	50	Ø222	Ø155	123-153	90-120	128
210.300.075	5705499105049	75	Ø222	Ø155	123-153	78-108	133

ADJUSTABLE SHOWER DRAIN CIRCLE TYPE 250



Type no.	EAN no.	D	D1	Z	G	H	H1
250.300.050	5705499123562	50	140	Ø222	Ø155	197-227	58
250.300.075	5705499105100	75	140	Ø222	Ø155	193-223	63
250.300.110	5705499105124	110	140	Ø222	Ø155	161-191	79

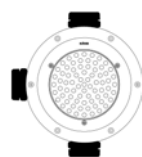
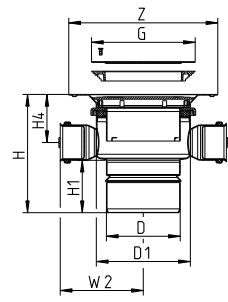
SHOWER DRAIN CIRCLE TYPE 260



Type no.	EAN no.	D	D1	Z	G	H	H1
260.300.050	5705499123548	50	110	Ø222	Ø155	203	60
260.300.075	5705499105186	75	110	Ø222	Ø155	208	63
260.300.110	5705499105209	110	110	Ø222	Ø155	101	80

ADJUSTABLE SHOWER DRAIN CIRCLE TYPE 251

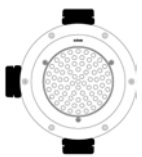
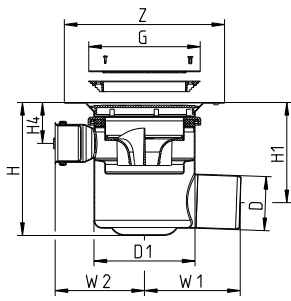
WITH SIDE INLETS 50 MM



Type no.	EAN no.	D	D1	Z	G	H	H1	H4	W2
251.303.110	5705499123555	110	140	Ø222	Ø155	176-206	79	72-102	124

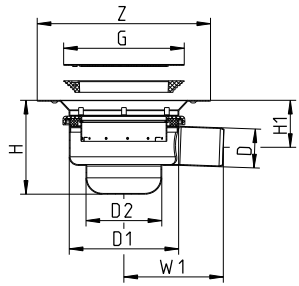
ADJUSTABLE SHOWER DRAIN CIRCLE TYPE 211

WITH SIDE INLETS 50 MM



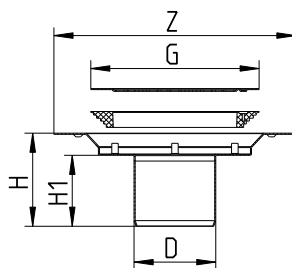
Type no.	EAN no.	D	D1	Z	G	H	H1	H4	W1	W2
211.303.075	5705499123722	75	140	Ø222	Ø155	183-193	139-149	57-67	133	124

ADJUSTABLE SHOWER DRAIN CIRCLE, LOW MODEL TYPE 214



Type no.	EAN no.	D	D1	Z	G	H	H1	W1	D2
214.300.050	5705499118070	50	140	Ø222	Ø155	120-130	60-70	127	97

SHOWER DRAIN CIRCLE, LOW MODEL TYPE 240

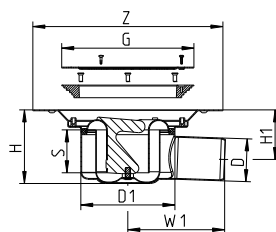


Type no.	EAN no.	D	Z	G	H	H1
240.300.050	5705499106534	50	Ø222	Ø155	81	60
240.300.075	5705499105087	75	Ø222	Ø155	86	65

Not for removable water trap

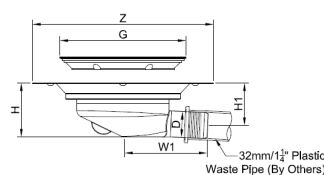
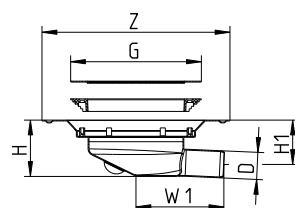
SHOWER DRAIN CIRCLE TYPE 283

WITH REMOVABLE WATER TRAP



Type no.	EAN no.	D	D1	Z	G	H	H1	S	W1
283.300.050 V	5705499134964	50	110	Ø222	Ø155	86	58	50	113

MINI DRAIN CIRCLE TYPE 281

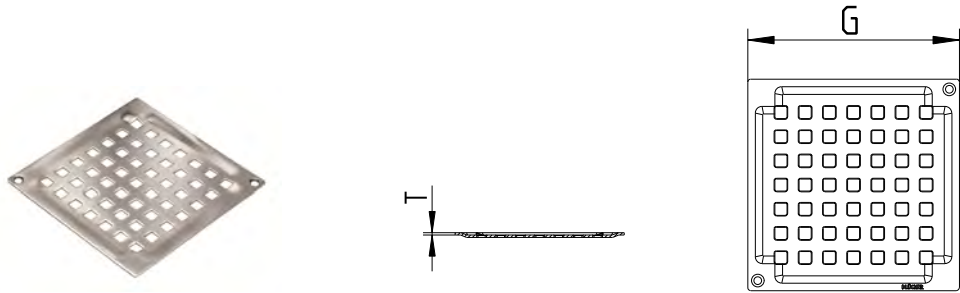


Type no.	EAN no.	D	Z	G	H	H1	W1
281.300.032	5705499107388	32	Ø222	Ø155	67	52	104

Not for removable water trap. Adaptor for D=40mm included.

Gratings SQUARE

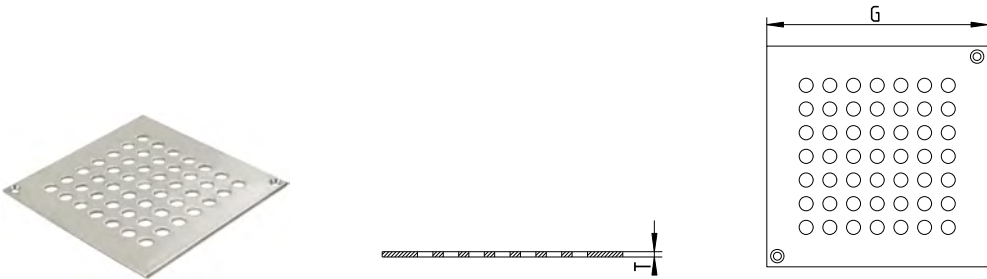
GRATING SQUARE VIENNA



Type no.	EAN no.	G	T	Screws
610.150.411	5705499101744	140x140	2	0
610.155.421	5705499102116	140x140	2	2

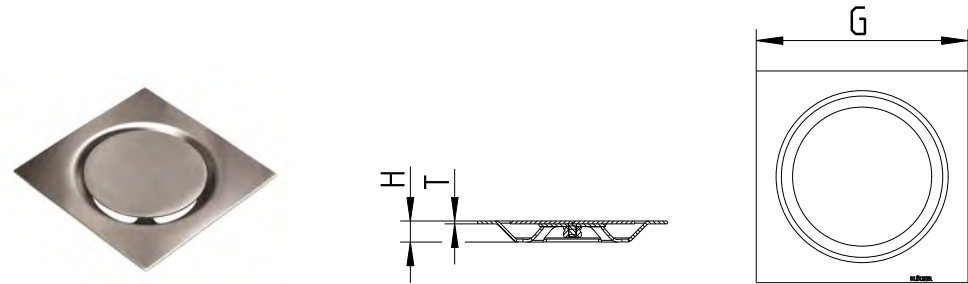
GRATING SQUARE

3MM



Type no.	EAN no.	G	T	Screws
610.155.425	5705499102147	140x140	3	2

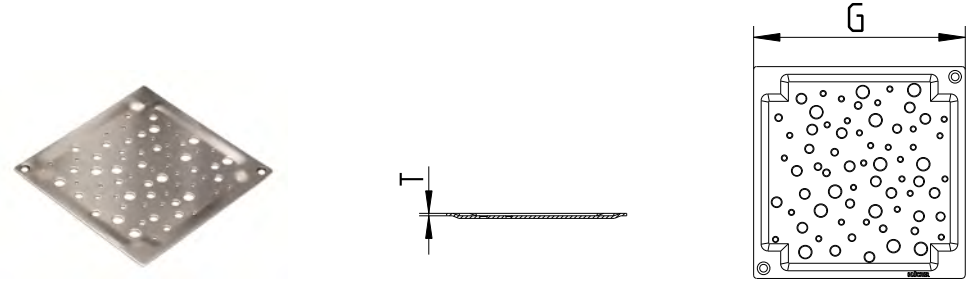
GRATING SQUARE COPENHAGEN



Type no.	EAN no.	G	H	T	Screws
610.155.521	5705499102192	140x140	16	2	0

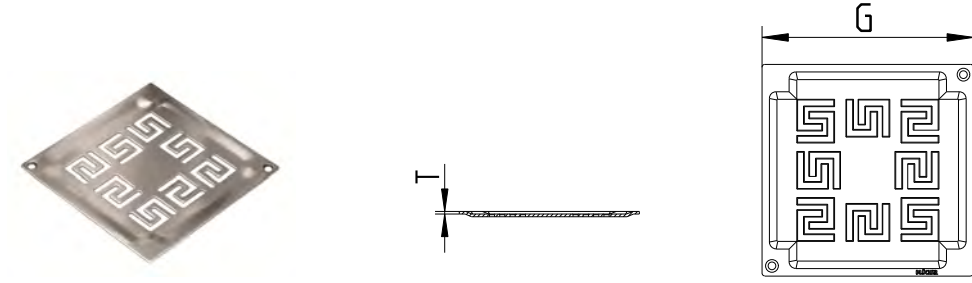
Gratings SQUARE

GRATING SQUARE OSLO



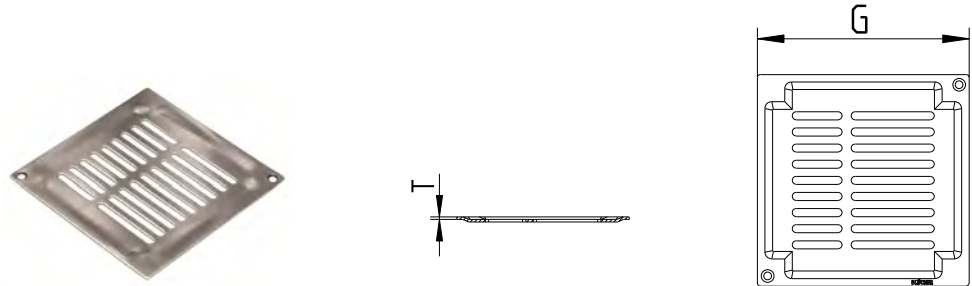
Type no.	EAN no.	G	T	Screws
610.155.426	5705499122770	140x140	2	2

GRATING SQUARE ATHENS



Type no.	EAN no.	G	T	Screws
610.155.427	5705499122848	140x140	2	2

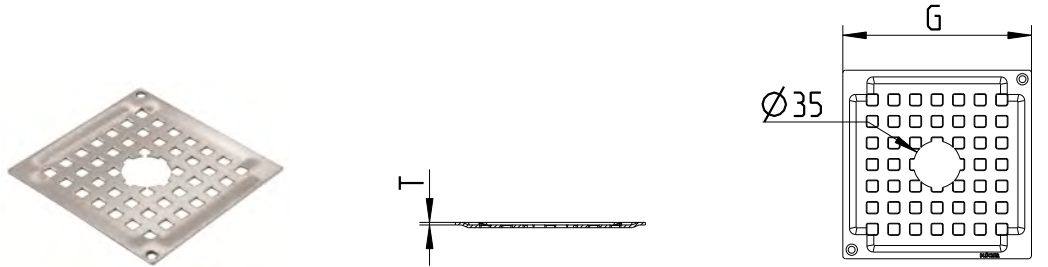
GRATING SQUARE DETROIT



Type no.	EAN no.	G	T	Screws
610.155.428	5705499122916	140x140	2	2

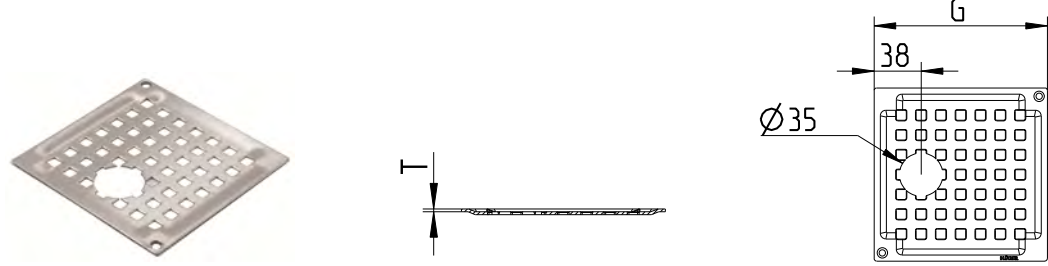
Gratings SQUARE

GRATING SQUARE VIENNA, CUT A



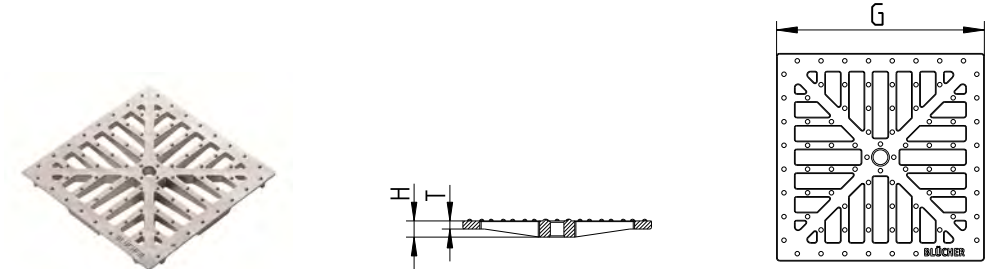
Type no.	EAN no.	G	T	Screws
610.155.441 A	5705499102161	140x140	2	2

GRATING SQUARE VIENNA, CUT B



Type no.	EAN no.	G	T	Screws
610.155.441 B	5705499102178	140x140	2	2

GRATING SQUARE HYGIENIC-PRO

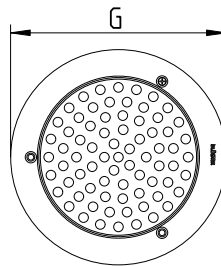


Type no.	EAN no.	G	H	T	EN1253 (kg)	Screws
610.155.500	5705499128369	140x140	12	6	L15 (3000)	0
610.155.501	5705499128376	140x140	12	6	L15 (3000)	2

Gratings CIRCLE

GRATING CIRCLE VIENNA

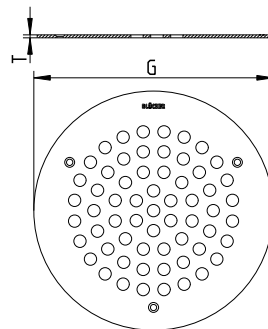
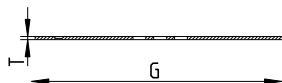
FOR VINYL FLOORS



Type no.	EAN no.	G	T	Screws
620.155.011	5705499102642	Ø155	1	3

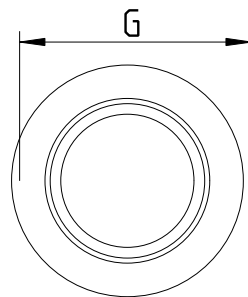
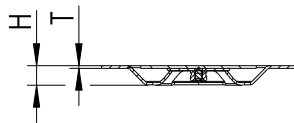
GRATING CIRCLE VIENNA (REPAIR)

FOR VINYL FLOORS



Type no.	EAN no.	G	T	Screws
620.155.021	5705499102673	Ø155	2	3
620.155.021 S	5705499102697	Ø155	2	3

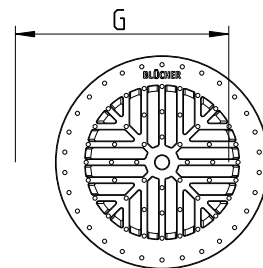
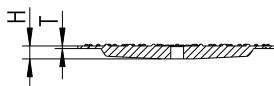
GRATING CIRCLE COPENHAGEN



Type no.	EAN no.	G	H	T	Screws
610.160.521	5705499114164	Ø160	16	2	0
651.155.521	5705499114317	Ø155	16	2	3

GRATING CIRCLE HYGIENIC-PRO

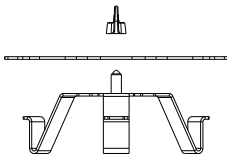
FOR RESIN FLOORS



Type no.	EAN no.	G	H	T	EN1253 (kg)	Screws
620.155.500	5705499128406	Ø155	10	2	L15 (3.000)	0
620.155.501	5705499128413	Ø155	10	2	L15 (3.000)	2

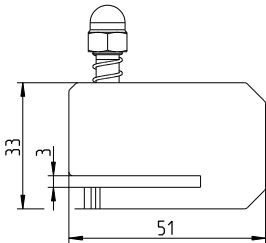
Others

VINYL CUTTING TEMPLATE
FOR CUTTING IN VINYL FLOORS



Type no.	EAN no.
001.200.001	5705499124095

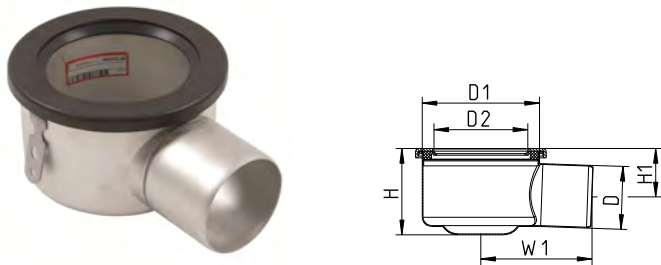
VINYL HOLE PUNCHING TOOL



Type no.	EAN no.
001.200.002	5705499128239

without membrane flange

LOWER PART FOR SHOWER DRAIN TYPE 110



Type no.	EAN no.	D	D1	H	H1	W1	D2
110.000.050	5705499126914	50	140	103	70	128	113
110.000.075	5705499107036	75	140	103	58	133	113
110.000.110	5705499129403	110	140	124	71	143	113

Suitable for all upper parts and flanges with D=110mm or D=113mm.

LOWER PART FOR SHOWER DRAIN TYPE 150

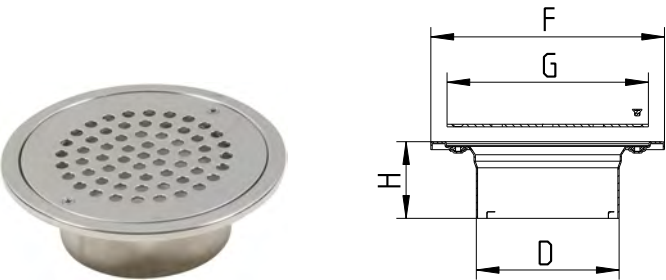


Type no.	EAN no.	D	D1	H	H1	D2
150.000.050	5705499107524	50	140	177	58	113
150.000.075	5705499107074	75	140	173	63	113
150.000.110	5705499107098	110	140	141	79	113

Suitable for all upper parts and flanges with D=110mm or D=113mm.

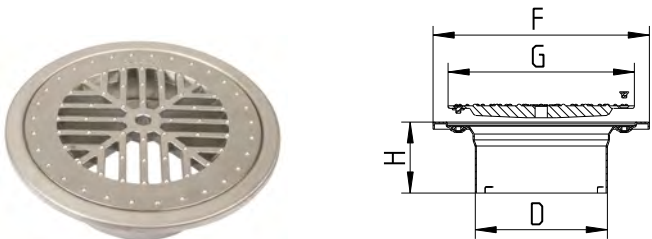
Upper parts CIRCLE for resin floors

UPPER PART FOR SHOWER DRAIN CIRCLE TYPE 110.320.000
WITHOUT SUPPORTING RING



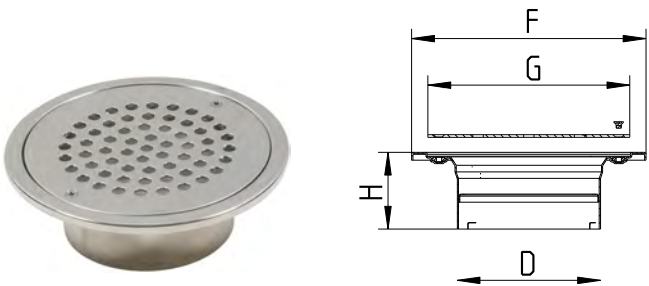
Type no.	EAN no.	D	F	G	H
110.320.000 S	5705499118032	110	Ø180	Ø155	59

UPPER PART FOR SHOWER DRAIN CIRCLE TYPE 110.320.100
WITHOUT SUPPORTING RING



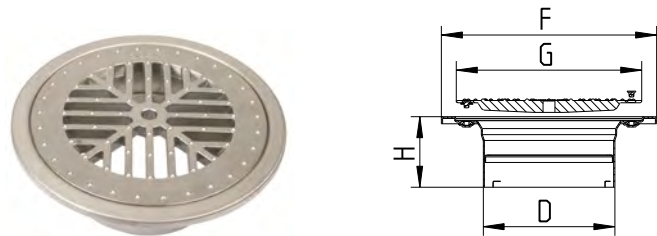
Type no.	EAN no.	D	F	G	H
110.320.100 S	5705499131871	110	Ø180	Ø155	59

UPPER PART FOR SHOWER DRAIN CIRCLE TYPE 150.320.000
WITH SUPPORTING RING FOR WATER TRAP



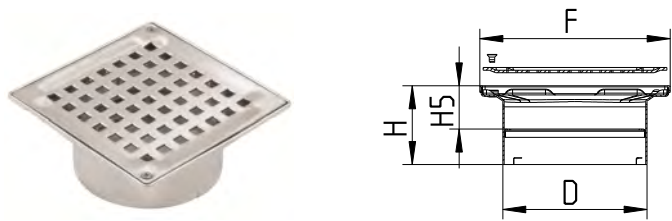
Type no.	EAN no.	D	F	G	H
150.320.000 S	5705499118049	110	Ø180	Ø155	59

UPPER PART FOR SHOWER DRAIN CIRCLE TYPE 150.320.100
WITH SUPPORTING RING FOR WATER TRAP



Type no.	EAN no.	D	F	G	H
150.320.100 S	5705499131888	110	Ø180	Ø155	59

UPPER PART FOR SHOWER DRAIN SQUARE TYPE 150
WITH SUPPORTING RING FOR WATER TRAP



Type no.	EAN no.	D	F	H	H5
150.300.000	5705499106954	110	145x145	60	33
Suitable for adjustable drain type 150 with outlet D=50mm or D=75mm					

UPPER PART FOR SHOWER DRAIN SQUARE TYPE 150
WITH SUPPORTING RING FOR WATER TRAP



Type no.	EAN no.	D	F	H	H5
150.300.002	5705499135466	110	197x197	70	33
Suitable for adjustable drain type 150 with outlet D=50mm or D=75mm					

UPPER PART FOR SHOWER DRAIN SQUARE, EXTRA LENGTH TYPE 150
WITH SUPPORTING RING FOR WATER TRAP



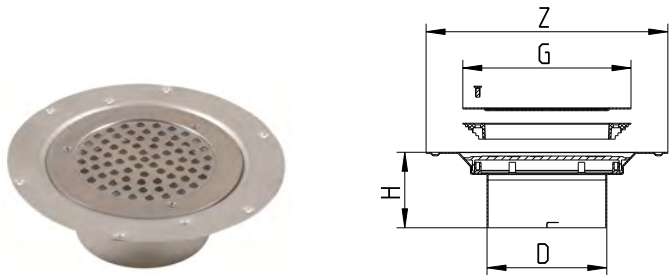
Type no.	EAN no.	D	F	H	H5
150.300.001	5705499107234	110	145x145	199	33

Suitable for adjustable drain type 150, 350 and 352 with outlet D=50mm or D=75mm.

Please note: To extend the height of shower drain type 3XX we recommend using extra-length flange type 326.300.001 (see accessories)

UPPER PART FOR SHOWER DRAIN CIRCLE TYPE 210

WITHOUT SUPPORTING RING

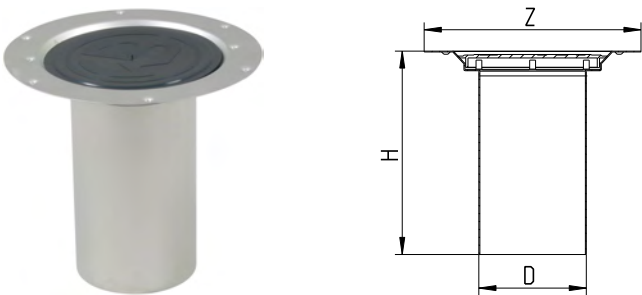


Type no.	EAN no.	D	Z	G	H
210.300.000	5705499106992	110	Ø222	Ø155	70

Suitable for adjustable drain type 210 and 251.
And for adjustable drain type 250 with outlet D=110mm.

UPPER PART FOR SHOWER DRAIN CIRCLE, EXTRA LENGTH TYPE 210

WITHOUT SUPPORTING RING



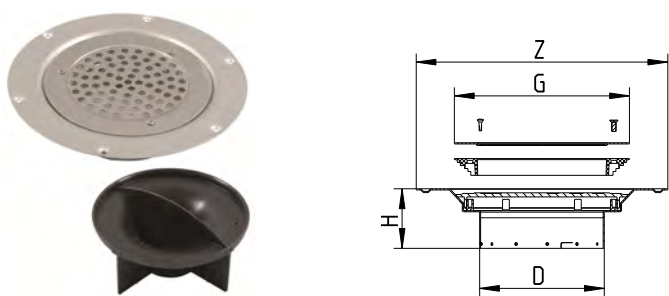
Type no.	EAN no.	D	Z	H
210.300.001	5705499117981	110	Ø222	209

Suitable for all adjustable drains with one or more of the following characteristics:

- horizontal outlet
- outlet D=110mm
- side inlets

UPPER PART FOR SHOWER DRAIN CIRCLE TYPE 211

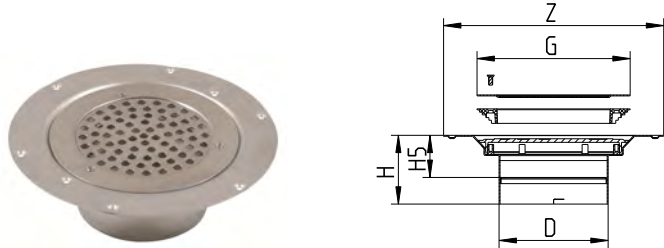
WITHOUT SUPPORTING RING



Type no.	EAN no.	D	Z	G	H
211.300.000	5705499106978	110	Ø222	Ø155	53

Suitable for adjustable drain type 202, 211, 214 and 253.

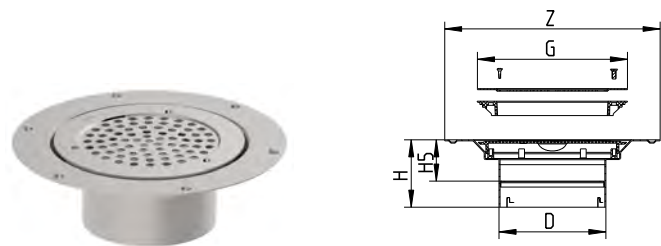
UPPER PART FOR SHOWER DRAIN CIRCLE TYPE 250
WITH SUPPORTING RING FOR WATER TRAP



Type no.	EAN no.	D	Z	G	H	H5
250.300.000	5705499107012	110	Ø222	Ø155	70	43

Suitable for adjustable drain type 250 with outlet D=50mm or D=75mm.

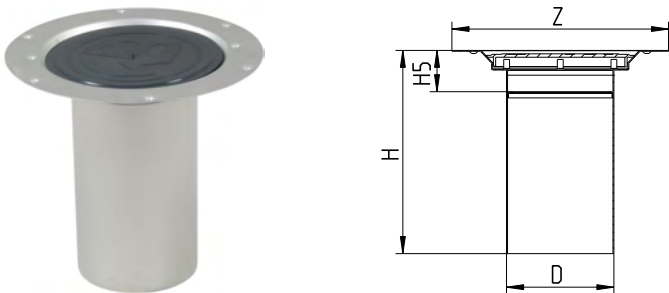
UPPER PART FOR SHOWER DRAIN CIRCLE TYPE 250
WITH SUPPORTING RING FOR WATER TRAP



Type no.	EAN no.	D	Z	G	H	H5
250.300.002	5705499135459	110	Ø222	Ø155	70	43

Suitable for adjustable drain type 250 with outlet D=50mm or D=75mm.

UPPER PART FOR SHOWER DRAIN CIRCLE, EXTRA LENGTH TYPE 250
WITH SUPPORTING RING FOR WATER TRAP

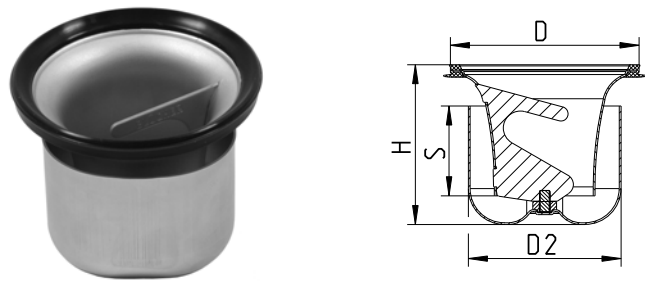


Type no.	EAN no.	D	Z	H	H5
250.300.001	5705499118001	110	Ø222	209	43

Suitable for adjustable drain type 250 with outlet D=50mm or D=75mm.

Water traps

REMOVABLE TWO-PART WATER TRAP TYPE 502.050



Type no.	EAN no.	D	H	S	D2	Max Flow (l/s)
502.050.110	5705499124064	108	89	50	85	1.7

Accurate flow rate depending on type of drain and grating.

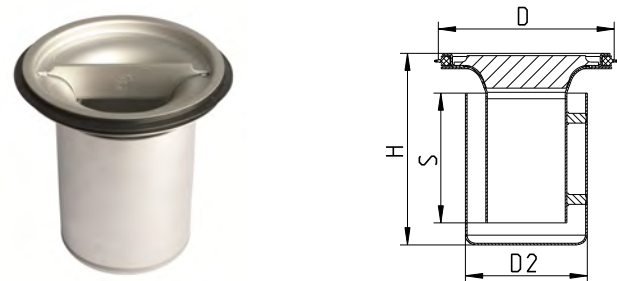
REMOVABLE WATER TRAP TYPE 502.052



Type no.	EAN no.	D	H	S	D2	Max Flow (l/s)
502.052.110	5705499105582	108	93	52	75	1.3

Accurate flow rate depending on type of drain and grating.

REMOVABLE WATER TRAP TYPE 502.082

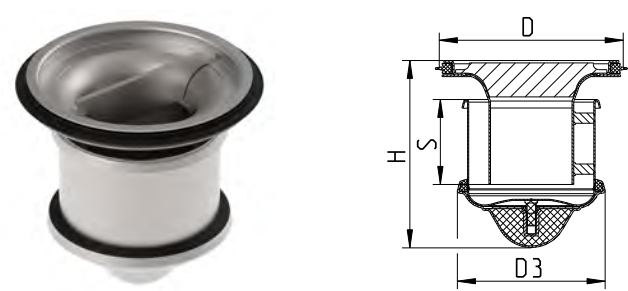


Type no.	EAN no.	D	H	S	D2	Max Flow (l/s)
502.082.110 S	5705499128468	108	118	80	75	1.2

Water seal height = 80mm.
Fits into all drains with Ø110 mm vertical outlet.
Accurate flow rate depending on type of drain and grating.

Water traps

REMOVABLE WATER TRAP FIRE PROOF TYPE 502.052

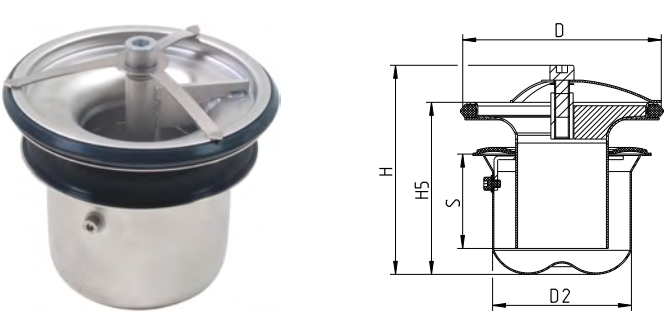


Type no.	EAN no.	D	H	S	D3	Max Flow (l/s)
502.052.110 FS	5705499120509	108	110	50	87	1.2

Fits only shower drains with vertical outlet D=50mm or D=75mm.
Accurate flow rate depending on type of drain and grating.

REMOVABLE MULTI WATER TRAP TYPE 503

PREVENTS SMELL AND BACK FLOW

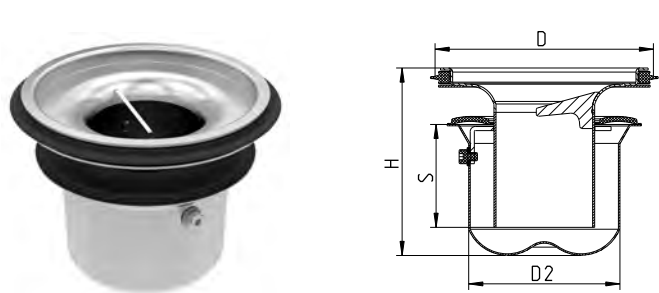


Type no.	EAN no.	D	H	H5	S	D2	Max Flow (l/s)
503.000.110	5705499118735	108	113	93	51	75	1.3

Accurate flow rate depending on type of drain and grating.

REMOVABLE WATER TRAP TYPE 503.001

PREVENTS SMELL

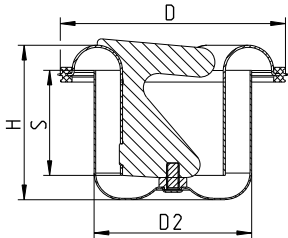


Type no.	EAN no.	D	H	S	D2	Max Flow (l/s)
503.001.110	5705499134728	108	93	51	75	1.3

Accurate flow rate depending on type of drain and grating.

Water traps

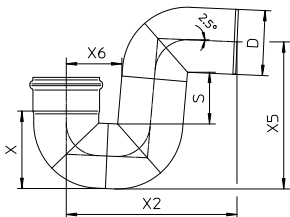
REMOVABLE TWO-PART WATER TRAP, LOW MODEL TYPE 506



Type no.	EAN no.	D	H	S	D2	Max Flow (l/s)
506.050.110	5705499131864	108	74	50	75	0.6

Fits only into shower drains type 382.

P-TRAP 87.5° TYPE 525.090

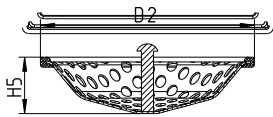


Type no.	EAN no.	D	S	X	X2	X5	X6	Min Flow (l/s)	Max Flow (l/s)
525.090.050 S	5705499101461	50	74	67	175	145	60	0.7	1.7
525.090.075 S	5705499101478	75	81	93	222	189	74	2.5	3.7
525.090.110 S	5705499101485	110	89	132	289	249	94	3.4	10.4

Accurate flow rate depending on installation.

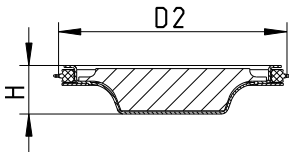
Others

FILTER BASKET FOR REMOVABLE TWO-PART WATER TRAP



Type no.	EAN no.	H5	D2
502.000.000 S	5705499124101	24	106

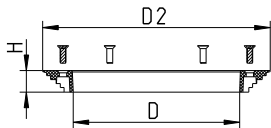
PLUG FOR SHOWER DRAIN



Type no.	EAN no.	H	D2
620.300.019 S	5705499118568	23	108

CLAMPING RING

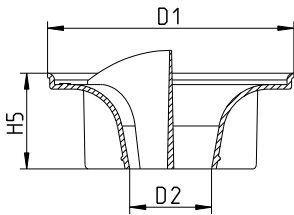
FOR VINYL FLOORS OR FOR SHEET MEMBRANE



Type no.	EAN no.	D	H	D2
620.300.004	5705499105667	113	15	155

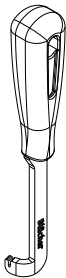
DEFLECTOR

FOR DRAINS WITH SIDE INLETS



Type no.	EAN no.	D1	H5	D2
620.300.009	5705499106701	108	42	36

TAB BENDING TOOL

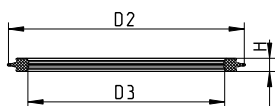


Type no.	EAN no.
001.000.001	5705499124088

Others

SEALING RING

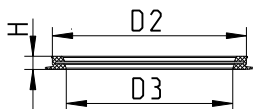
FOR WATER TRAP TYPE 502.052.110



Type no.	EAN no.	H	D2	D3	Material
620.300.010	5705499106718	6	110	50	EPDM

SEALING RING

FOR WATER TRAP TYPE 502.050.110



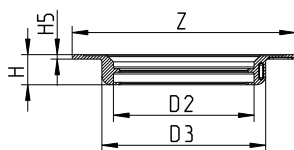
Type no.	EAN no.	H	D2	D3	Material
620.300.042	5705499127331	7	102	87	EPDM
620.300.042 N	5705499138993	7	102	87	NBR

SET OF SCREWS



Type no.	EAN no.	Designation
620.300.007	5705499106688	Set of screws for grating (drain for concrete)
620.300.011	5705499102772	Set of screws for grating (drain for vinyl)
620.300.012	5705499106725	Set of screws for clamping ring

MOUNTING PLATE

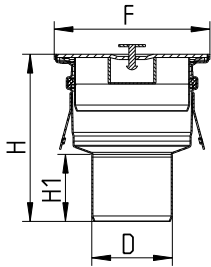


Type no.	EAN no.	Z	H	H5	D2	D3
620.300.039	5705499126976	250x250	34	5	158	184

without membrane

RODDING EYE TYPE 144

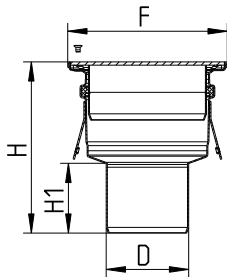
WITH PULL NIPPLE



Type no.	EAN no.	D	F	H	H1	EN1253 (kg)
144.150.075 S	5705499408492	75	145x145	156	63	K3 (750)
144.150.110 S	5705499408508	110	145x145	120	-	K3 (750)
144.200.160 S	5705499408546	160	200x200	159	-	K3 (750)

RODDING EYE WITH SCREW LOCK TYPE 144

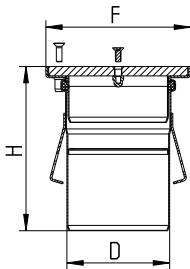
FOR VACUUM HANDLE



Type no.	EAN no.	D	F	H	H1	EN1253 (kg)
144.155.075 S	5705499408515	75	145x145	156	63	K3 (750)
144.155.110	5705499134988	110	145x145	120	-	K3 (750)
144.155.110 S	5705499408522	110	145x145	120	-	K3 (750)
144.205.160 S	5705499408553	160	200x200	159	-	K3 (750)

RODDING EYE WITH SCREW LOCK TYPE 144

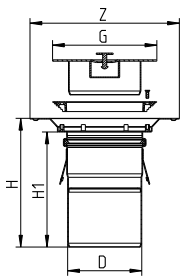
10 MM PLATE, FOR VACUUM HANDLE OR LIFTING SCREW



Type no.	EAN no.	D	F	H	EN1253 (kg)
144.155.110.10 S	5705499408539	110	155x155	176	M125 (12.000)
144.205.160.10 S	5705499412284	160	200x200	160	M125 (12.000)

RODDING EYE TYPE 244

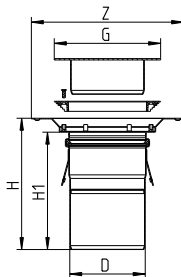
WITH PULL NIPPLE



Type no.	EAN no.	D	Z	G	H	H1	EN1253 (kg)
244.150.110 S	5705499113921	110	Ø222	Ø155	192	171	K3 (250)

RODDING EYE WITH SCREW LOCK TYPE 244

FOR VACUUM HANDLE



Type no.	EAN no.	D	Z	G	H	H1	EN1253 (kg)
244.155.110 S	5705499113938	110	Ø222	Ø155	192	171	K3 (250)

Drains for housing and commercial applications with universal lower part and range of mounting sets



Shower drains for tiled and vinyl floors square, circular or linear

bimready
files at bimstore.co.uk

Applications

For tiled and vinyl floors in:

- Private housing bathrooms
- Showers in apartments, hotels, hospitals, fitness centres

Details

- Same lower parts for all types of flooring, combinable with all mounting sets
- Square, circular or linear frame
- Brushed grain finish
- Low frame height
- Grate with starlock screw-system
- Stainless steel AISI304/EN 1.4301 or AISI316L/EN 1.4404

Variants

- Side inlets Ø32/40 mm
- Vertical or horizontal outlet
- Flange for liquid or sheet membrane
- Adjustable height, rotation and tilt

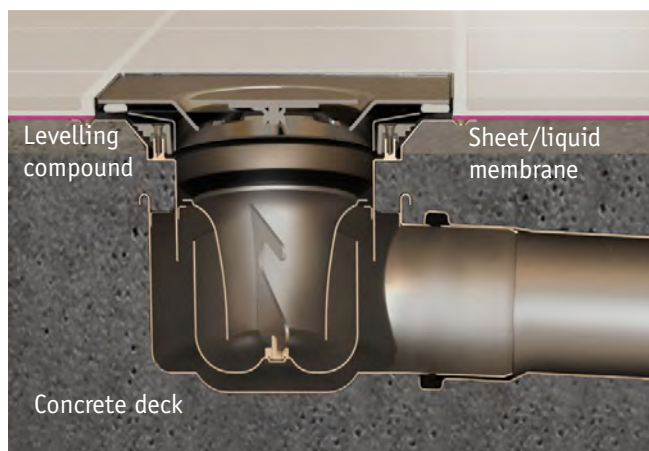
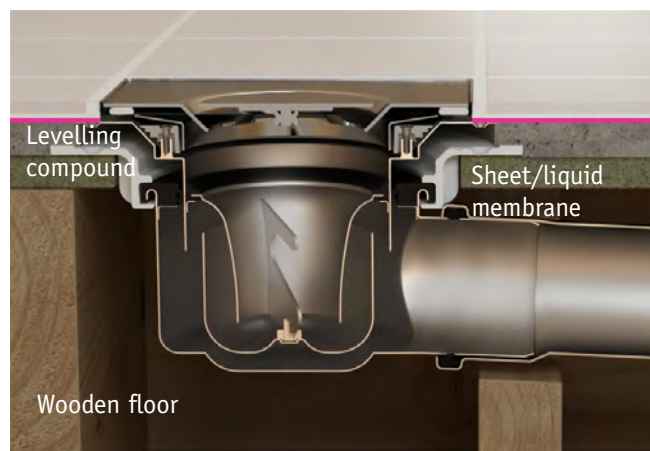
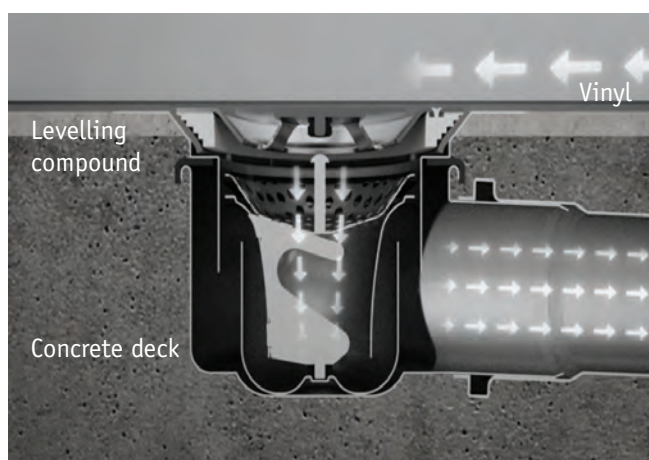
Options

- Removable water trap
- Design gratings in 4 shapes and numerous designs

Series

- Series 200 for vinyl floors
- Series 300 with liquid or sheet membrane flange for concrete and tiled floors

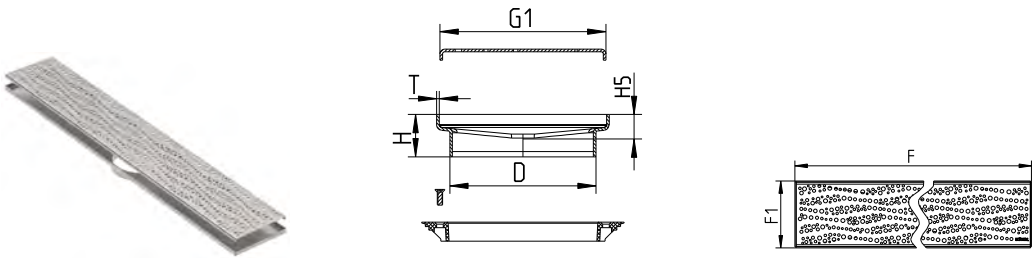
Installation examples

Concrete and tiles with sheet or liquid membrane**Concrete and tiles with sheet or liquid membrane****Vinyl****Two-part removable water trap**

Due to its design the water trap has unique self-cleansing properties, and the slanted handle does not gather hair or dirt. Separable to facilitate cleaning. After cleaning, assemble the two parts by screwing them together tightly.

MOUNTING SET MULTI LINE STOCKHOLM TYPE 650

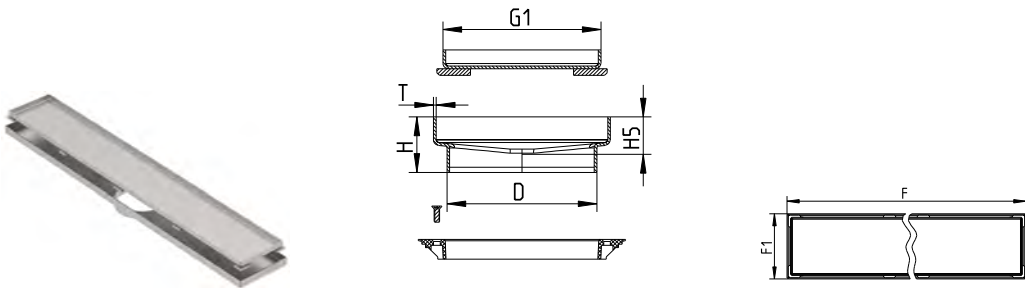
WITH CLAMPING RING



Type no.	EAN no.	D	F	F1	G1	H	H5	T
650.300.080	5705499135367	112	800	132	127	32	17	2
650.300.090	5705499135374	112	900	132	127	32	17	2
650.300.100	5705499135381	112	1000	132	127	32	17	2
650.300.120	5705499135398	112	1200	132	127	32	17	2

MOUNTING SET MULTI LINE TOKYO TYPE 650

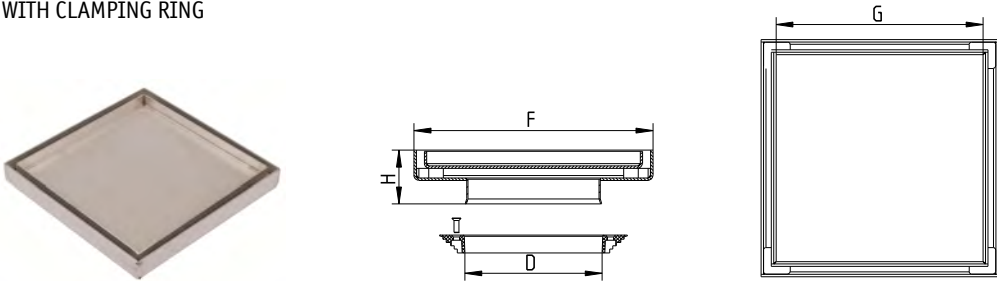
WITH CLAMPING RING



Type no.	EAN no.	D	F	F1	G1	H	H5	T
650.350.080	5705499135404	112	800	132	118	41	26	2
650.350.090	5705499135411	112	900	132	118	41	26	2
650.350.100	5705499135428	112	1000	132	118	41	26	2
650.350.120	5705499135435	112	1200	132	118	41	26	2

MOUNTING SET MULTI SQUARE TOKYO TYPE 650

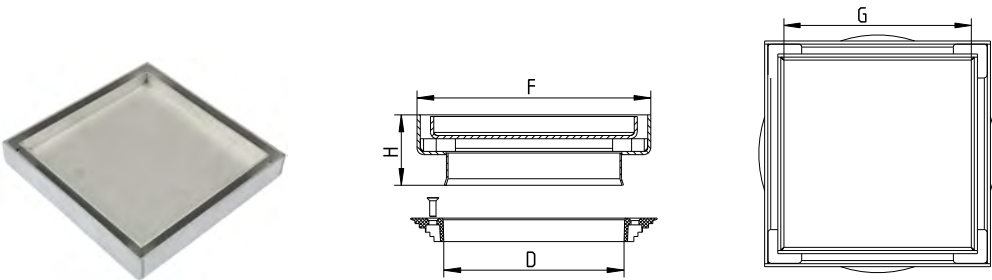
WITH CLAMPING RING



Type no.	EAN no.	D	F	G	H
650.200.008	5705499131970	110	197x197	172x172	44

MOUNTING SET MULTI SQUARE TOKYO TYPE 620

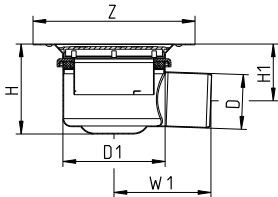
WITH CLAMPING RING



Type no.	EAN no.	D	F	G	H
620.200.025	5705499131963	110	147x147	130x130	44

ADJUSTABLE LOWER PART MULTI TYPE 210

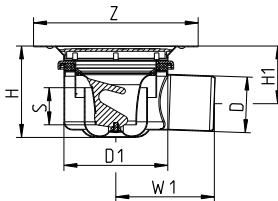
FOR MOUNTING SET



Type no.	EAN no.	D	D1	Z	H	H1	W1
210.200.075	5705499105674	75	140	Ø222	123-153	78-108	133
210.200.110	5705499129243	110	140	Ø222	147-197	92-142	143

ADJUSTABLE LOWER PART MULTI TYPE 210

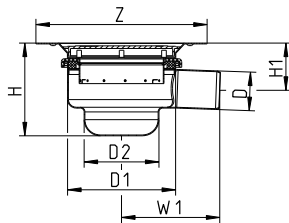
FOR MOUNTING SET, WITH REMOVABLE WATER TRAP



Type no.	EAN no.	D	D1	Z	H	H1	S	W1
210.200.075 V	5705499105797	75	140	Ø222	123-153	78-108	50	133
210.200.110 V	5705499129267	110	140	Ø222	147-197	92-142	50	143

ADJUSTABLE LOWER PART MULTI, LOW MODEL TYPE 214

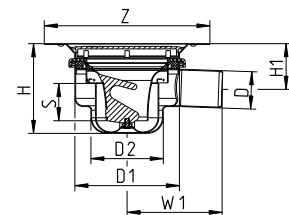
FOR MOUNTING SET



Type no.	EAN no.	D	D1	Z	H	H1	W1	D2
214.210.050	5705499107463	50	140	Ø222	120-130	60-70	127	97

ADJUSTABLE LOWER PART MULTI, LOW MODEL TYPE 214

FOR MOUNTING SET, WITH REMOVABLE WATER TRAP

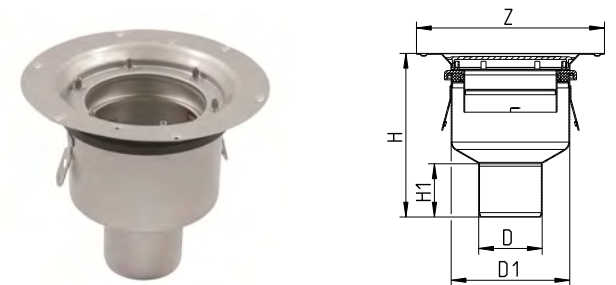


Type no.	EAN no.	D	D1	Z	H	H1	S	W1	D2
214.210.050 V	5705499107487	50	140	Ø222	120-130	60-70	50	127	97

All dimensions in mm - Stainless Steel grade AISI 316L specify type no. with suffix S

ADJUSTABLE LOWER PART MULTI TYPE 250

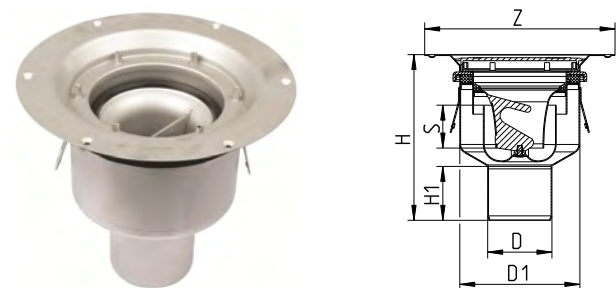
FOR MOUNTING SET



Type no.	EAN no.	D	D1	Z	H	H1
250.200.050	5705499118346	50	140	Ø222	197-227	58
250.200.075	5705499105735	75	140	Ø222	193-223	63

ADJUSTABLE LOWER PART MULTI TYPE 250

FOR MOUNTING SET, WITH REMOVABLE WATER TRAP



Type no.	EAN no.	D	D1	Z	H	H1	S
250.200.050 V	5705499118360	50	140	Ø222	197-227	58	50
250.200.075 V	5705499105872	75	140	Ø222	193-223	63	50
250.200.110 V	5705499131949	110	140	Ø222	161-191	79	50

LOWER PART MULTI TYPE 260

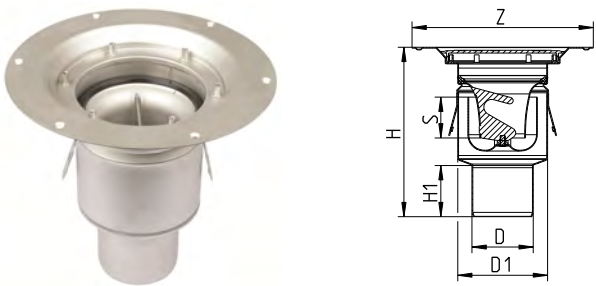
FOR MOUNTING SET



Type no.	EAN no.	D	D1	Z	H	H1
260.200.075	5705499105773	75	110	Ø222	208	63

LOWER PART MULTI TYPE 260

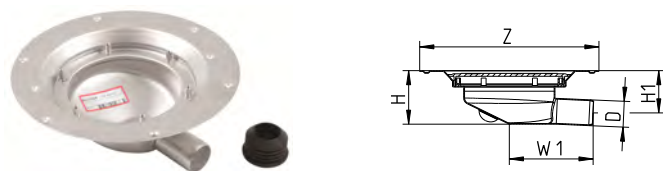
FOR MOUNTING SET, WITH REMOVABLE WATER TRAP



Type no.	EAN no.	D	D1	Z	H	H1	S
260.200.075 V	5705499105919	75	110	Ø222	208	63	50

MINI LOWER PART MULTI TYPE 281

FOR MOUNTING SET

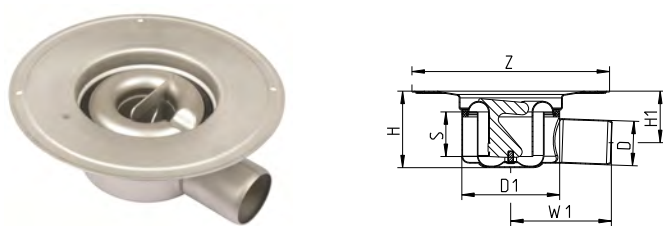


Type no.	EAN no.	D	Z	H	H1	W1
281.200.032	5705499107630	32	Ø222	67	52	104

Not for removable water trap. Adaptor for D=40mm included.

LOWER PART MULTI, LOW MODEL TYPE 382

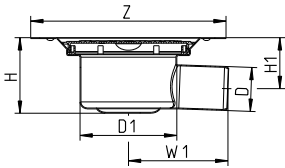
FOR MOUNTING SET, WITH LIQUID MEMBRANE FLANGE AND REMOVABLE WATER TRAP



Type no.	EAN no.	D	D1	Z	H	H1	S	W1
382.200.050 V	5705499133295	50	110	Ø222	86	58	50	113

LOWER PART MULTI, LOW MODEL TYPE 383

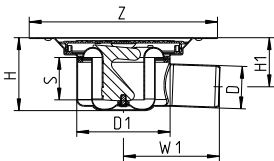
FOR MOUNTING SET



Type no.	EAN no.	D	D1	Z	H	H1	W1
383.200.050	5705499133288	50	110	Ø222	86	58	113

LOWER PART MULTI, LOW MODEL TYPE 383

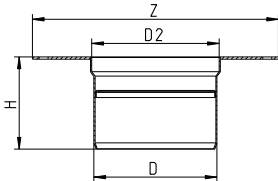
FOR MOUNTING SET, WITH REMOVABLE WATER TRAP



Type no.	EAN no.	D	D1	Z	H	H1	S	W1
383.200.050 V	5705499131796	50	110	Ø222	86	58	50	113

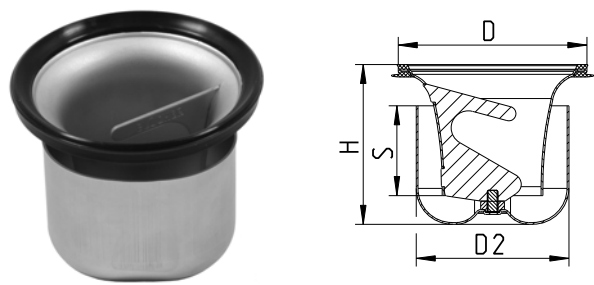
LOWER PART MULTI TYPE 110

FOR MOUNTING SET, WITH LIQUID MEMBRANE FLANGE



Type no.	EAN no.	D	Z	H	D2
100.000.110	5705499135442	110	Ø220	83	114

REMOVABLE TWO-PART WATER TRAP TYPE 502.050

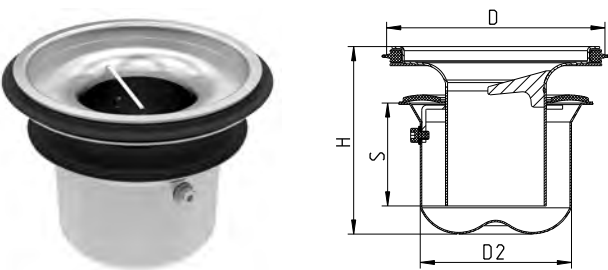


Type no.	EAN no.	D	H	S	D2	Max Flow (l/s)
502.050.110	5705499124064	108	89	50	85	1.7

Accurate flow rate depending on type of drain and grating.

REMOVABLE WATER TRAP TYPE 503.001

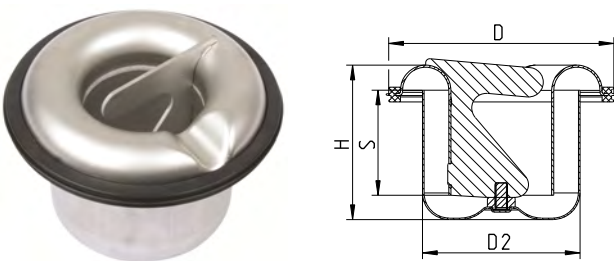
PREVENTS SMELL



Type no.	EAN no.	D	H	S	D2	Max Flow (l/s)
503.001.110	5705499134728	108	93	51	75	1.3

Accurate flow rate depending on type of drain and grating.

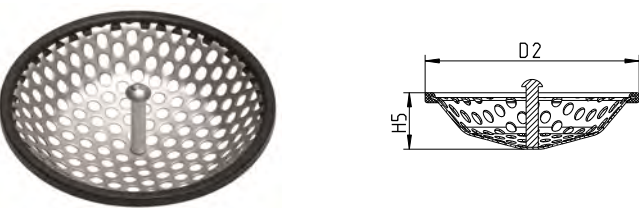
REMOVABLE TWO-PART WATER TRAP, LOW MODEL TYPE 506



Type no.	EAN no.	D	H	S	D2	Max Flow (l/s)
506.050.110	5705499131864	108	74	50	75	0.6

Fits only into lower part MULTI type 382 and 383

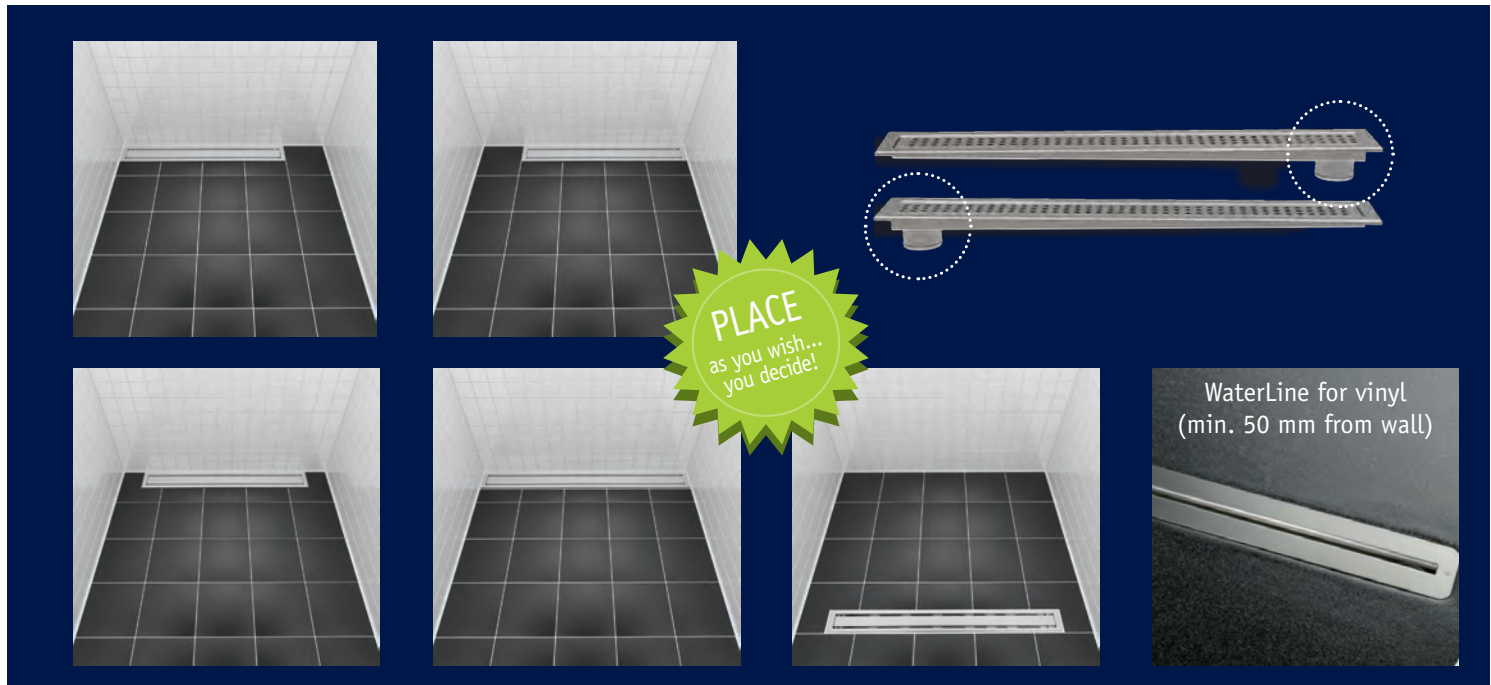
FILTER BASKET FOR REMOVABLE TWO-PART WATER TRAP



Type no.	EAN no.	H5	D2
502.000.000 S	5705499124101	24	106

All dimensions in mm - Stainless Steel grade AISI 316L specify type no. with suffix S

Shower channels for housing and commercial applications



bimready
files at bimstore.co.uk

Height-adjustable No permanent connection between wall and floor

Applications

For tiled and vinyl flooring in:

- Private housing bathrooms
- Toilets and showers in hotels, hospitals, fitness centres, etc.

Details

- **NEW: One model for concrete/tiles can be installed with outlet left or right and against wall(s) or away from walls**
- 20 mm frame width
- 50 mm end outlet
- All in stainless steel AISI 304/EN 1.4301, brush finish
- Adjustable frame height
- Secured grate providing rat stop

Options

- OD40 mm outlet part without water trap
- OD75 mm water trap - horizontal or 45°
- Side inlet connection
- 6 different design gratings

Variants

- 300-700-800-900-1000 mm standard lengths
- Up to 2000 mm length as customized channel

Series

- Series 178 for tiled floors without membrane
- Series 275 for vinyl floors
- Series 378 for tiled floors with liquid membrane
- Series 398 for tiled floors with sheet membrane

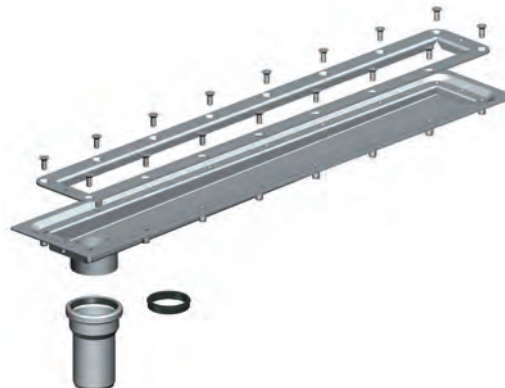
Product database at www.blucher.co.uk

Complete drains

Series 178 for tiled floor without membrane



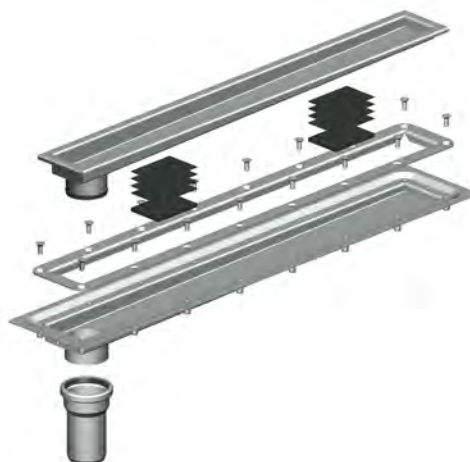
Series 275 for vinyl floor



Series 378 for tiled floor with liquid membrane



Series 398 for tiled floor with sheet membrane



Complete shower channel

Channel

Series 178 1-part channel or series 275, 378 and 398 adjustable 2-part shower channel. Standard OD50 mm end outlet included.
Series 378 and 398 come with rubber pads for height adjustment.
Series 378 comes with removable mounting brackets.

Grating

No standard grating is included - selected design grating to be ordered separately.

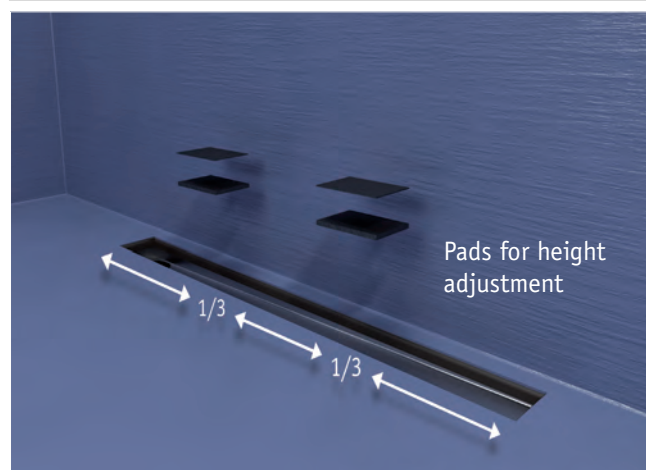
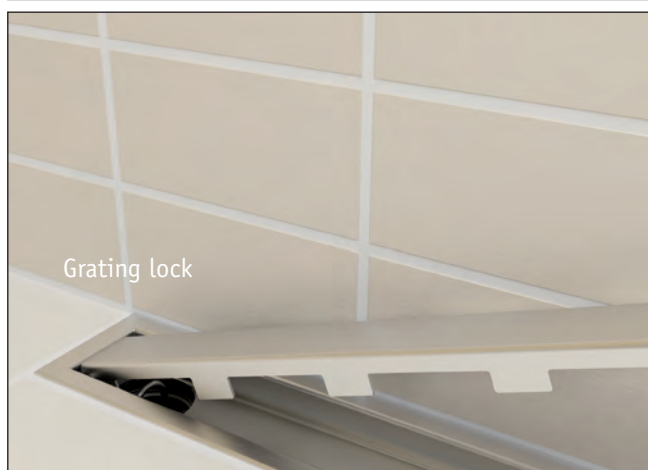
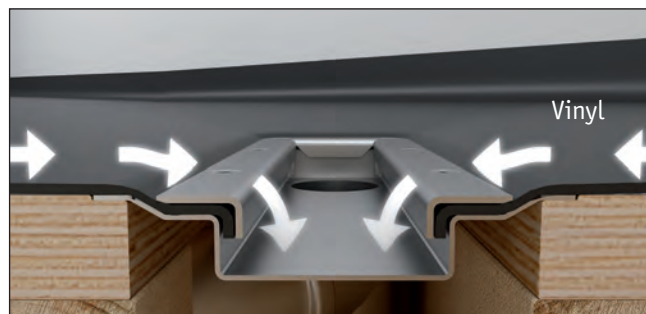
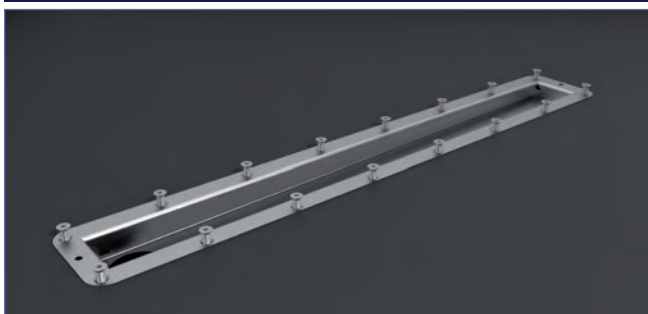
Water trap

Water trap with casing and stand pipe not included - to be ordered separately. To be fitted during installation of the channel, cannot be retro-fitted.

Side inlet OD40 mm is an accessory - to be ordered separately.

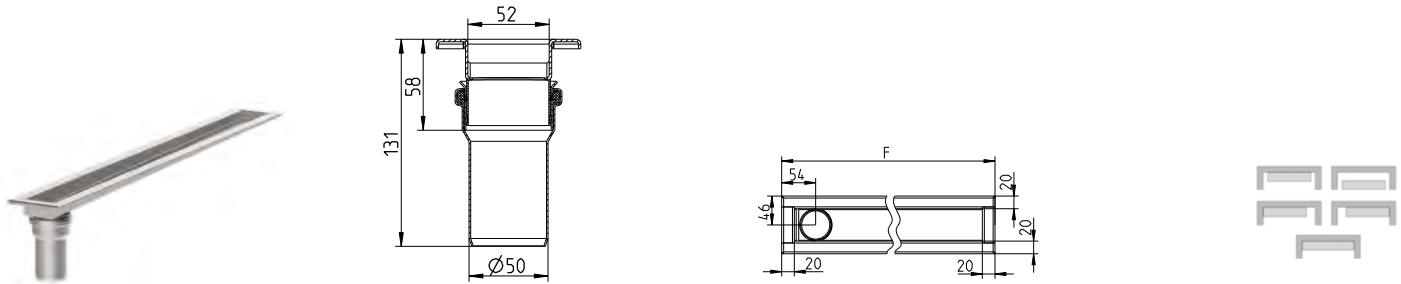


Installation examples

Tiles**Tiles and liquid membrane****Vinyl**

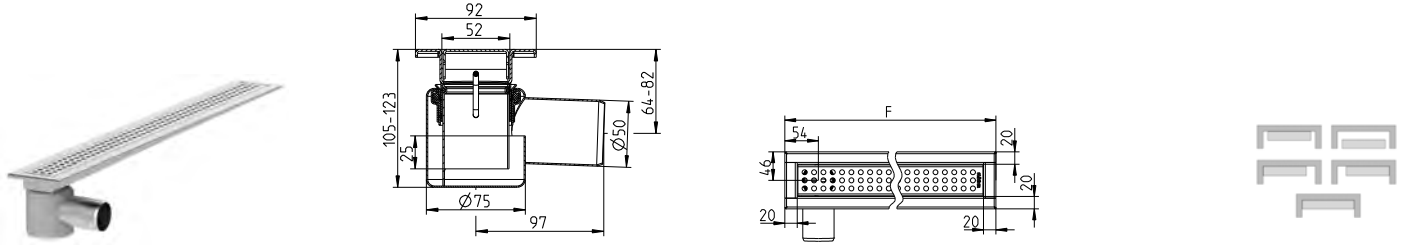
without membrane

SHOWER CHANNEL WATERLINE TYPE 178



Type no.	EAN no.	Name	F
178.030.056.20	5705499138108	300	274
178.070.056.20	5705499138429	700	674
178.080.056.20	5705499138115	800	774
178.090.056.20	5705499138122	900	874
178.100.056.20	5705499138139	1000	974

SHOWER CHANNEL WATERLINE TYPE 178, ITEM SET

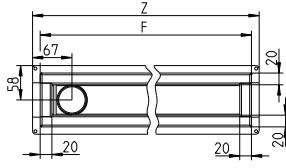
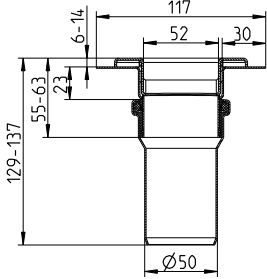


Type no.	EAN no.	Name	F
178.070.056.7A	5705499138306	700	674
178.080.056.7A	5705499138313	800	774
178.090.056.7A	5705499138320	900	874
178.100.056.7A	5705499138337	1000	974

Complete with shower channel, lower part, grating and water trap.

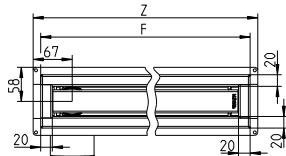
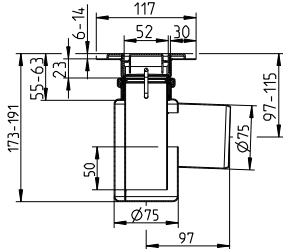
with liquid membrane

SHOWER CHANNEL WATERLINE TYPE 378



Type no.	EAN no.	Name	F	Z
378.030.056.20	5705499138368	300	274	300
378.070.056.20	5705499138146	700	674	700
378.080.056.20	5705499138153	800	774	800
378.090.056.20	5705499138160	900	874	900
378.100.056.20	5705499138177	1000	974	1000

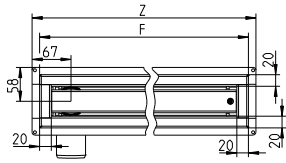
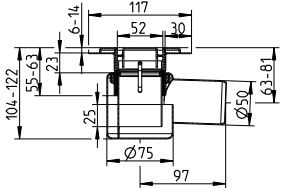
SHOWER CHANNEL WATERLINE TYPE 378, ITEM SET



Type no.	EAN no.	Name	F	Z
378.070.056.4B	5705499138184	700	674	700
378.080.056.4B	5705499138191	800	774	800
378.090.056.4B	5705499138207	900	874	900
378.100.056.4B	5705499138214	1000	974	1000

Complete with shower channel, lower part, grating and water trap.

SHOWER CHANNEL WATERLINE TYPE 378, ITEM SET

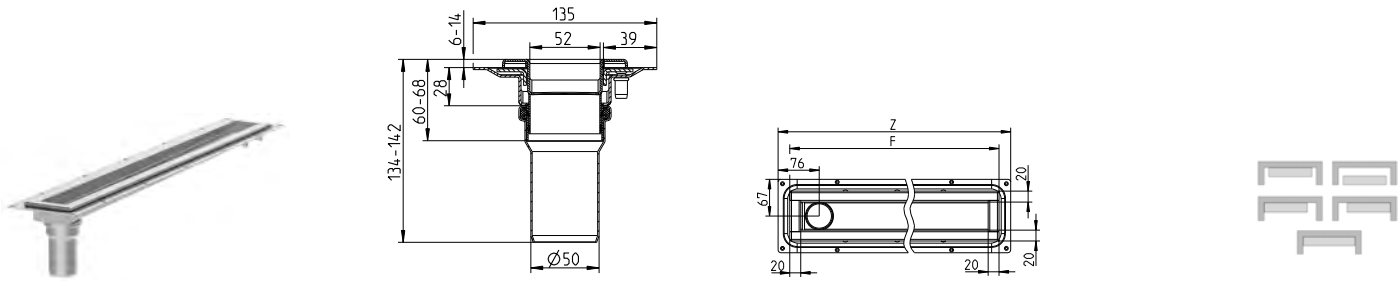


Type no.	EAN no.	Name	F	Z
378.080.056.7B	5705499138344	800	774	800
378.090.056.7B	5705499138351	900	874	900

Complete with shower channel, lower part, grating and water trap.

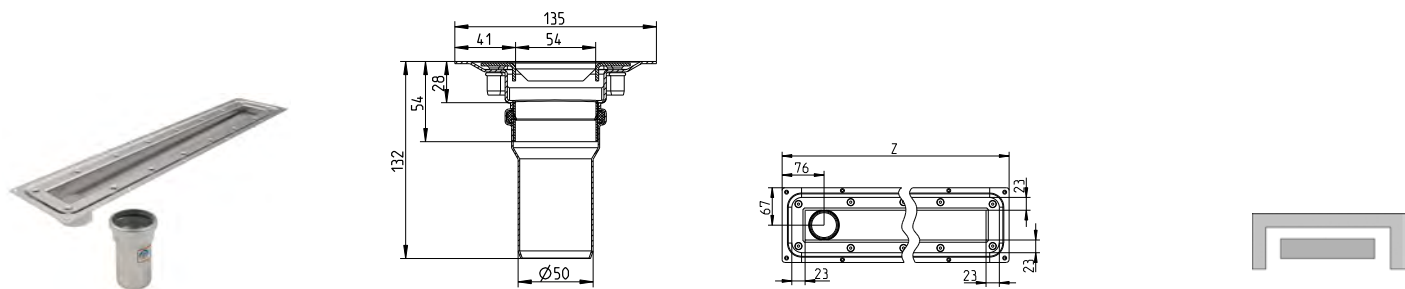
with sheet membrane

SHOWER CHANNEL WATERLINE TYPE 398



Type no.	EAN no.	Name	F	Z
398.070.056.20	5705499138375	700	674	717
398.080.056.20	5705499138382	800	774	817
398.090.056.20	5705499138399	900	874	917
398.100.056.20	5705499138412	1000	974	1017

SHOWER CHANNEL WATERLINE TYPE 275

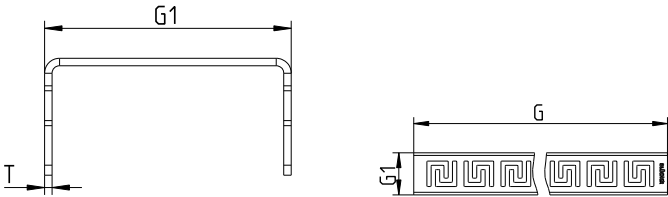


Type no.	EAN no.	Name	Z
275.070.056.20	5705499122527	700	717
275.080.056.20	5705499122534	800	817
275.090.056.20	5705499122541	900	917
275.100.056.20	5705499122558	1000	1017

Required distance from wall to long side of channel = 50mm
Required distance from wall to end of channel = 100mm

Gratings

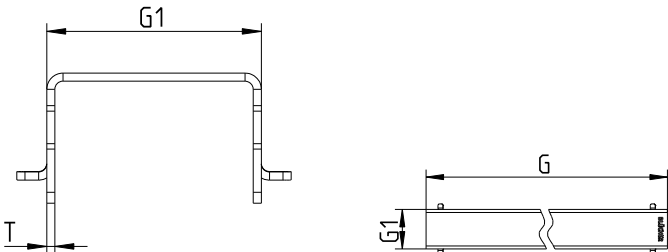
GRATING LINE ATHENS



Type no.	EAN no.	G	G1	T	Max Flow (l/s)
697.005.030	5705499122794	232	50	1.5	0.7
697.005.070	5705499122800	632	50	1.5	0.9
697.005.080	5705499122817	732	50	1.5	0.9
697.005.090	5705499122824	832	50	1.5	0.9
697.005.100	5705499122831	932	50	1.5	0.9

Accurate flow rate depending on type of water trap.

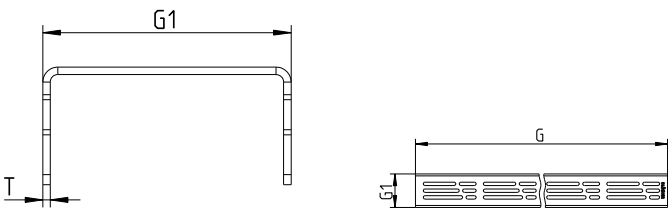
GRATING LINE COPENHAGEN



Type no.	EAN no.	G	G1	T	Max Flow (l/s)
697.004.030	5705499119251	232	40	1.5	0.9
697.004.070	5705499119268	632	40	1.5	1.1
697.004.080	5705499119275	732	40	1.5	1.1
697.004.090	5705499119282	832	40	1.5	1.1
697.004.100	5705499119299	932	40	1.5	1.1

Accurate flow rate depending on type of water trap.

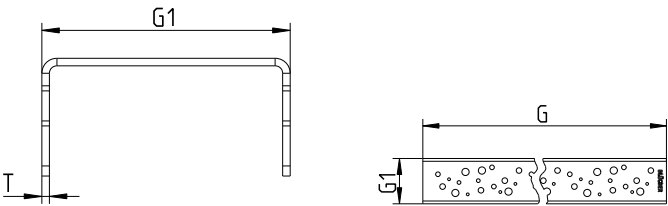
GRATING LINE DETROIT



Type no.	EAN no.	G	G1	T	Max Flow (l/s)
697.006.030	5705499122862	232	50	1.5	0.6
697.006.070	5705499122879	632	50	1.5	0.7
697.006.080	5705499122886	732	50	1.5	0.7
697.006.090	5705499122893	832	50	1.5	0.7
697.006.100	5705499122909	932	50	1.5	0.7

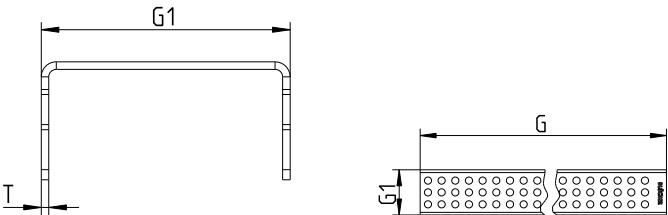
Gratings

GRATING LINE OSLO



Type no.	EAN no.	G	G1	T	Max Flow (l/s)
697.008.030	5705499122725	232	50	1.5	0.4
697.008.070	5705499122732	632	50	1.5	0.5
697.008.080	5705499122749	732	50	1.5	0.5
697.008.090	5705499122756	832	50	1.5	0.5
697.008.100	5705499122763	932	50	1.5	0.5

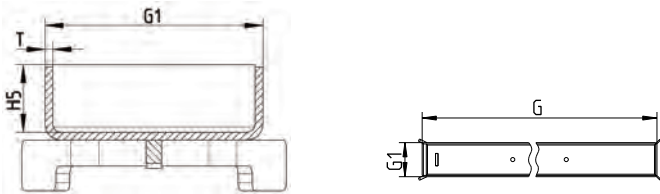
GRATING LINE VIENNA



Type no.	EAN no.	G	G1	T	Max Flow (l/s)
697.003.030	5705499119206	232	50	1.5	0.7
697.003.070	5705499119213	632	50	1.5	0.9
697.003.080	5705499119220	732	50	1.5	0.9
697.003.090	5705499119237	832	50	1.5	0.9
697.003.100	5705499119244	932	50	1.5	0.9

Accurate flow rate depending on type of water trap.

GRATING LINE TOKYO



Type no.	EAN no.	G	G1	H5	T	Max Flow (l/s)
697.009.030	5705499126983	224	42	13	1.5	0.8
697.009.070	5705499126990	624	42	13	1.5	0.8
697.009.080	5705499127003	724	42	13	1.5	0.8
697.009.090	5705499127010	824	42	13	1.5	0.8
697.009.100	5705499127027	924	42	13	1.5	0.8

Accurate flow rate depending on type of water trap.

Gratings

GRATING LINE COPENHAGEN VINYL
FOR WATERLINE SHOWER CHANNEL FOR VINYL FLOORS

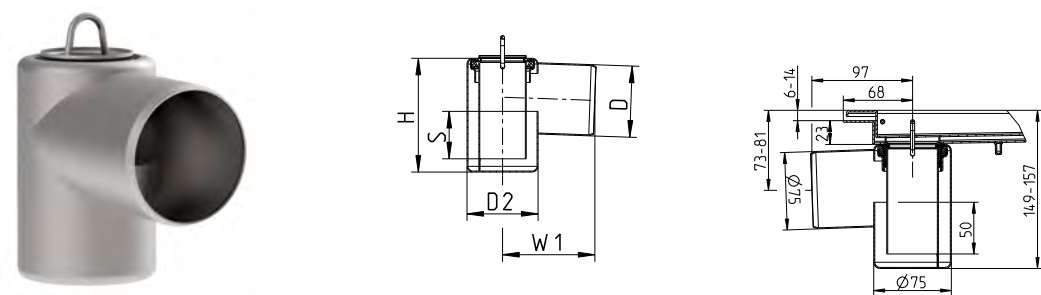


Type no.	EAN no.	G	G1	T	Max Flow (l/s)
697.104.070	5705499122565	685	103	1.5	0.6
697.104.080	5705499122572	785	103	1.5	0.6
697.104.090	5705499122589	885	103	1.5	0.6
697.104.100	5705499122596	985	103	1.5	0.6

Water traps

WATER TRAP FOR WATERLINE

TO BE BUILT IN - CANNOT BE RETRO-FITTED

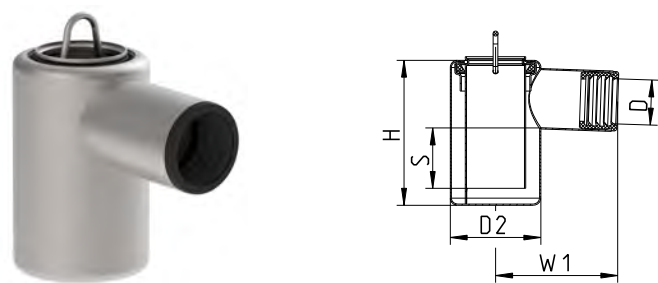


Type no.	EAN no.	D	H	S	W1	D2	Max Flow (l/s)
510.000.075	5705499120011	75	120	50	97	75	0.8

Accurate flow rate depending on type of grating.

WATER TRAP FOR WATERLINE

TO BE BUILT IN - CANNOT BE RETRO-FITTED

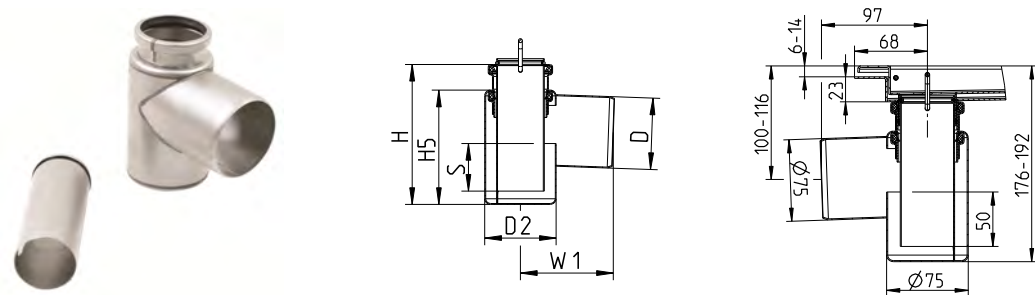


Type no.	EAN no.	D	H	S	W1	D2	Max Flow (l/s)
510.000.059	5705499126907	50	120	50	101	75	0.7

Accurate flow rate depending on type of grating.
Adaptor for D=1½" included

WATER TRAP FOR WATERLINE, HIGH MODEL

TO BE BUILT IN - CANNOT BE RETRO-FITTED



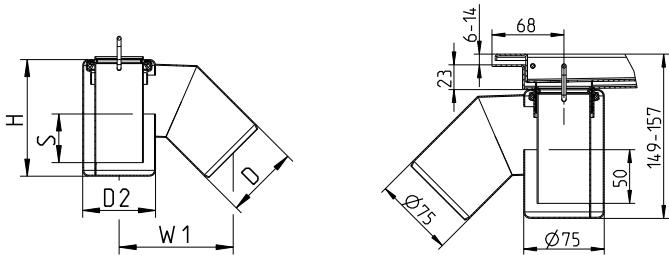
Type no.	EAN no.	D	H	H5	S	W1	D2	Max Flow (l/s)
510.002.075	5705499123067	75	147	120	50	97	75	0.8

Accurate flow rate depending on type of grating.

Water traps

WATER TRAP 45° FOR WATERLINE

TO BE BUILT IN - CANNOT BE RETRO-FITTED

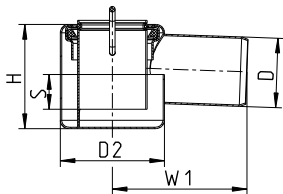


Type no.	EAN no.	D	H	S	W1	D2	Max Flow (l/s)
510.003.075	5705499123074	75	120	50	117	75	0.8

Accurate flow rate depending on type of grating.

WATER TRAP FOR WATERLINE, LOW MODEL

TO BE BUILT IN - CANNOT BE RETRO-FITTED

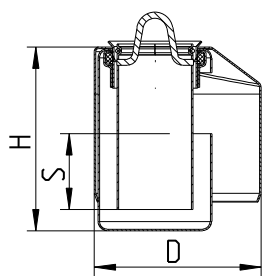


Type no.	EAN no.	D	H	S	W1	D2	Max Flow (l/s)
510.025.050	5705499134711	50	75	25	97	75	0.6

Water-seal height does not comply with EN 1253-1 requirements.

WATER TRAP FOR WATERLINE, VERTICAL MODEL

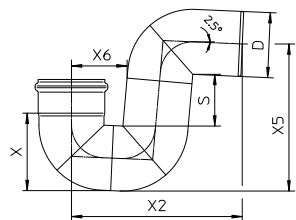
TO BE BUILT IN - CANNOT BE RETRO-FITTED



Type no.	EAN no.	D	H	S	Max Flow (l/s)
510.004.110	5705499138535	110	121	50	0.9

Accurate flow rate depending on type of grating.

P-TRAP 87.5° TYPE 525.090



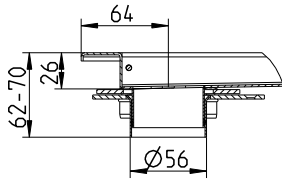
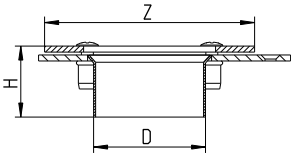
Type no.	EAN no.	D	S	X	X2	X5	X6	Max Flow (l/s)
525.090.050 S	5705499101461	50	74	67	175	145	60	1.7

Accurate flow rate depending on installation.

All dimensions in mm - Stainless Steel grade AISI 316L specify type no. with suffix S

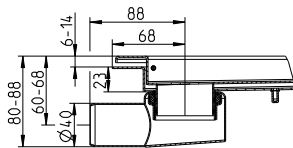
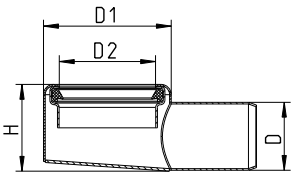
Others

FLANGE FOR WATERLINE



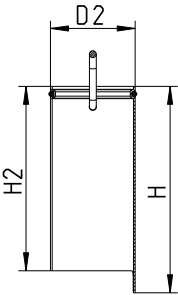
Type no.	EAN no.	D	Z	H
326.005.000	5705499121513	56	105x105	36

LOWER PART FOR WATERLINE



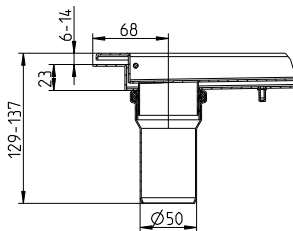
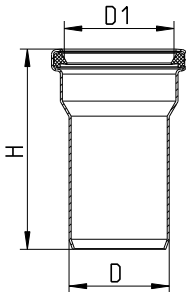
Type no.	EAN no.	D	D1	H	D2
620.300.028	5705499120288	40	75	51	56

STAND PIPE FOR WATERLINE WATER TRAP



Type no.	EAN no.	H	H2	D2
620.300.021	5705499120035	122	109	50

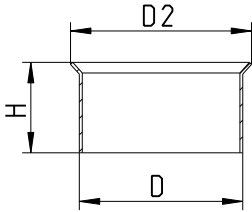
CONNECTING PIECE FOR WATERLINE



Type no.	EAN no.	D	D1	H
620.300.022	5705499120042	50	56	100

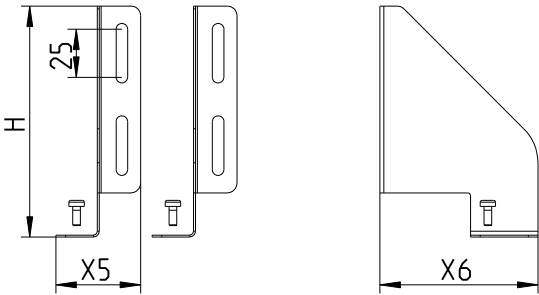
Others

CONNECTING PIECE FOR WATERLINE
FOR TYPE 17X



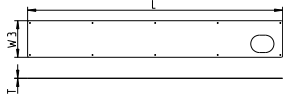
Type no.	EAN no.	D	H	D2
620.300.023	5705499120059	56	31	62

MOUNTING BRACKETS FOR WATERLINE



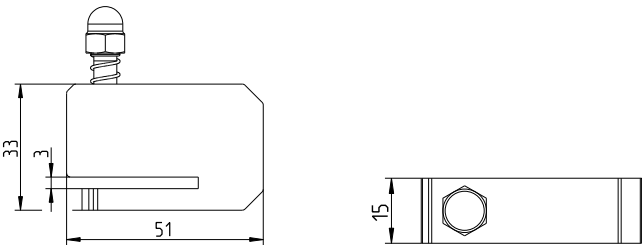
Type no.	EAN no.	H	X5	X6
620.300.037	5705499123814	120	44	82

MOUNTING SET FOR WATERLINE
FOR WOODEN SUBFLOOR



Type no.	EAN no.	L	W3	T
379.011.000	5705499127836	1100	158	0.7

VINYL HOLE PUNCHING TOOL



Type no.	EAN no.
001.200.002	5705499128239

Drains for industrial applications



bimready
files at bimstore.co.uk

Floor drains

For concrete, tiled, epoxy or vinyl floors square or circular

Applications

For concrete, tiled, vinyl and epoxy flooring in:

- Industrial areas
- Commercial kitchens
- Supermarkets, restaurants, airports, etc.

Details

- Square or circular reinforced frame
- Flow capacities from 1,2 to 7,8 l/s, with "P" water trap type 525.090.160 S up to 28,5 l/s
- 20 mm frame height
- Gratings suitable for any load class
- Stainless steel AISI304/EN 1.4301 or AISI316L/EN 1.4404

Variants

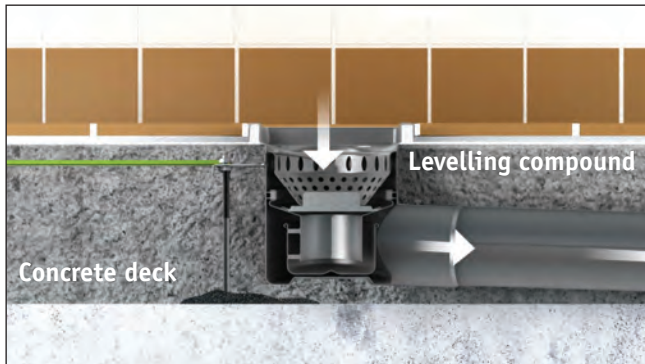
- Vertical or horizontal outlet
- For liquid membrane, sheet membrane or no membrane

Options

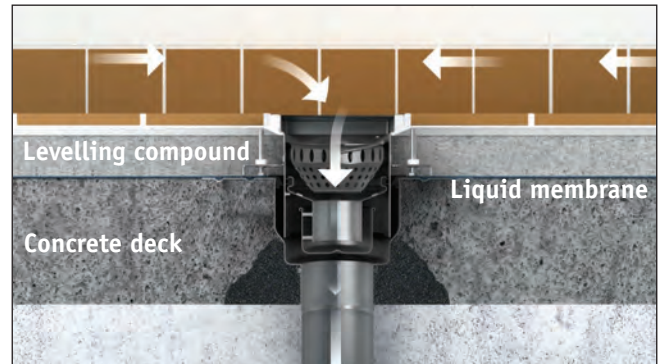
- Removable water trap
- Filter basket and sand bucket

Installation examples

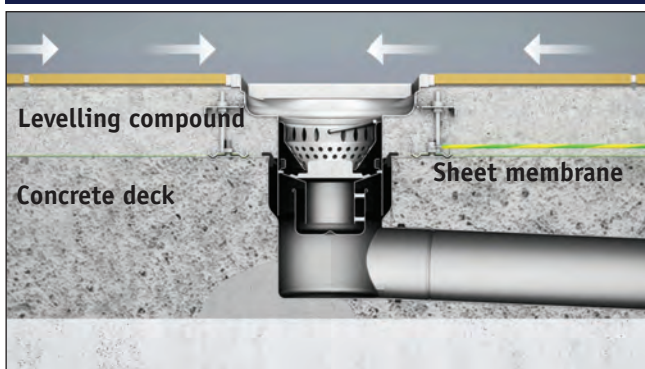
Concrete and tiles without membrane



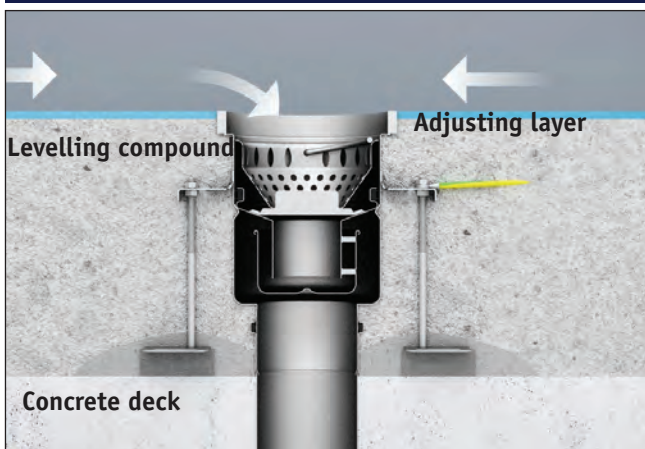
Concrete and tiles with liquid membrane



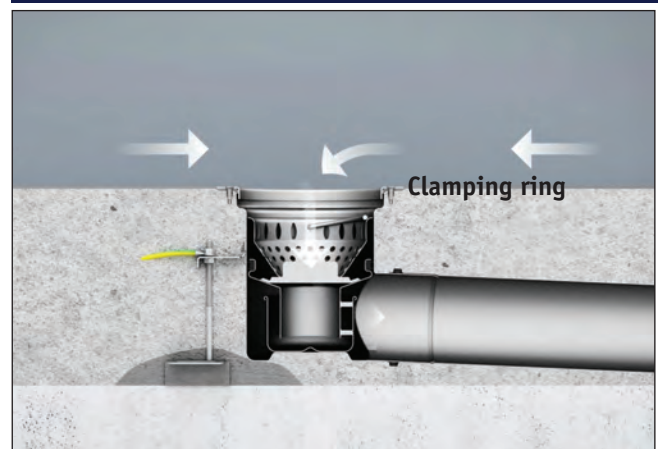
Concrete and tiles with sheet membrane



Epoxy



Vinyl



Installation videos available at www.blucher.co.uk

Complete drains

Concrete and tiles without membrane - fixed



Selected grating

Optional filter basket

Optional water trap

Drain

Concrete and tiles with liquid membrane



Selected grating

Adjustable upper part

Optional filter basket

Optional water trap

Lower part

Concrete and tiles with sheet membrane



Selected grating

Adjustable upper part

Optional filter basket

Optional water trap

Lower part with
clamping flange

Upper parts & frames

Concrete/tiles



Frame sizes:
200
300

Vinyl



Frame sizes:
200
300

Epoxy



Frame sizes:
200
300

HygienicPro® for concrete/tiles or epoxy



Frame sizes:
300

Complete drains

Drain

Fixed 1-part drain or adjustable drain in two or three parts

Grating

Range of gratings for all load classes. Grating not included - to be ordered separately

Accessories

Accessories such as filter basket, sand bucket and water trap not included - to be ordered separately

Load classes

Gratings and Access Covers

BLÜCHER GRATINGS FOR INDOOR USE are tested and classified according to EN 1253 "Gullies for buildings"				BLÜCHER GRATINGS FOR OUTDOOR USE are tested and classified in accordance with EN 1433 "Drainage channels for vehicular and pedestrian areas". BLÜCHER ACCESS COVERS are tested and classified in accordance with EN 124 "Gully tops and manhole tops for vehicular and pedestrian areas".			
	H 1,5	(150 kg)	No load areas				
	K 3	(300 kg)	Barefoot areas				
	L 15	(1.500 kg)	Pedestrian and light traffic		A 15	(1.500 kg)	Pedestrian and light traffic
	R 50	(5.000 kg)	Light traffic and light industrial areas				
	M 125	(12.500 kg)	Traffic and industrial areas		B 125	(12.500 kg)	Car parking areas
	N 250	(25.000 kg)	Heavy traffic and heavy industrial areas		C 250	(25.000 kg)	Along roads
	P 400	(40.000 kg)	Extra heavy traffic and industrial areas		D 400	(40.000 kg)	Light industrial areas
					E 600	(60.000 kg)	Heavy traffic and industrial areas
					F 900	(90.000 kg)	Airports, container and industrial areas

Non-slip gratings

Gratings are non-slip tested according to DIN 51130

without membrane

INDUSTRIAL DRAIN TYPE 760



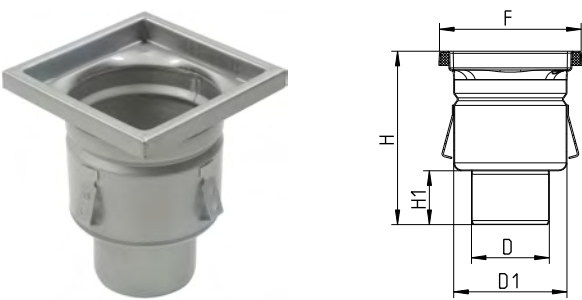
Type no.	EAN no.	D	D1	F	H	H1	Material
760.402.075	5705499109344	75	160	200x200	284	65	AISI 304
760.402.110	5705499109382	110	160	200x200	295	76	AISI 304
760.403.110	5705499109429	110	250	300x300	371	76	AISI 304
760.403.160	5705499109467	160	250	300x300	389	95	AISI 304

INDUSTRIAL DRAIN TYPE 760
WITH SIDE INLET



Type no.	EAN no.	D	D1	F	H	H1	H4	W2	Material
760.402.110.91 S	5705499118322	110	160	200x200	295	76	68	132	AISI 316L
760.403.110.91 S	5705499118339	110	250	300x300	371	76	75	178	AISI 316L

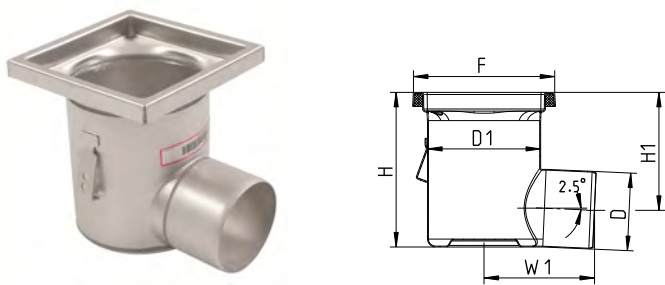
INDUSTRIAL DRAIN, LOW MODEL TYPE 766



Type no.	EAN no.	D	D1	F	H	H1	Material
766.402.075	5705499110227	75	160	200x200	234	65	AISI 304
766.402.110	5705499110265	110	160	200x200	245	76	AISI 304
766.403.110	5705499110364	110	250	300x300	289	76	AISI 304
766.403.160	5705499110401	160	250	300x300	307	95	AISI 304

without membrane

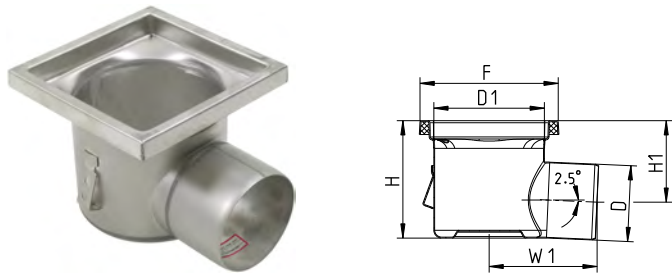
INDUSTRIAL DRAIN TYPE 763



Type no.	EAN no.	D	D1	F	H	H1	W1	Material
763.402.075	5705499109900	75	160	200x200	219	186	250	AISI 304
763.402.110	5705499109948	110	160	200x200	219	167	153	AISI 304
763.403.110	5705499109986	110	250	300x300	270	218	201	AISI 304

Drains with outlet other than D=110mm come fitted with adaptor.

INDUSTRIAL DRAIN, LOW MODEL TYPE 726

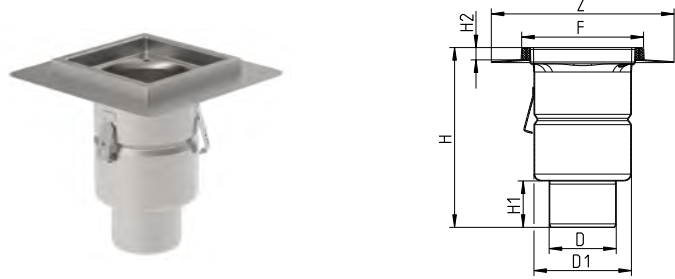


Type no.	EAN no.	D	D1	F	H	H1	W1	Material
726.402.075	5705499108866	75	160	200x200	170	137	250	AISI 304
726.402.110	5705499108880	110	160	200x200	170	118	153	AISI 304
726.403.110	5705499108903	110	250	300x300	188	136	201	AISI 304

Drains with outlet other than D=110mm come fitted with adaptor.
Only for low filter basket together with water trap

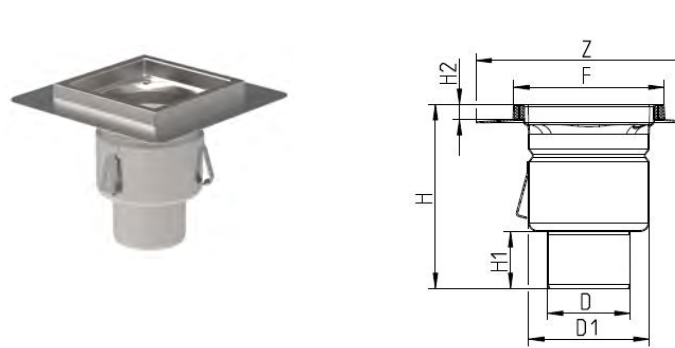
with liquid membrane

INDUSTRIAL DRAIN TYPE 761



Type no.	EAN no.	D	D1	F	Z	H	H1	H2
761.402.075	5705499109665	75	160	200x200	300x300	284	65	20
761.402.110	5705499109702	110	160	200x200	300x300	295	76	20
761.403.110	5705499109740	110	250	300x300	400x400	371	76	20

INDUSTRIAL DRAIN, LOW MODEL TYPE 767



Type no.	EAN no.	D	D1	F	Z	H	H1	H2
767.402.075	5705499110647	75	160	200x200	300x300	234	65	20
767.402.110	5705499110685	110	160	200x200	300x300	245	76	20
767.403.110	5705499110784	110	250	300x300	400x400	289	76	20

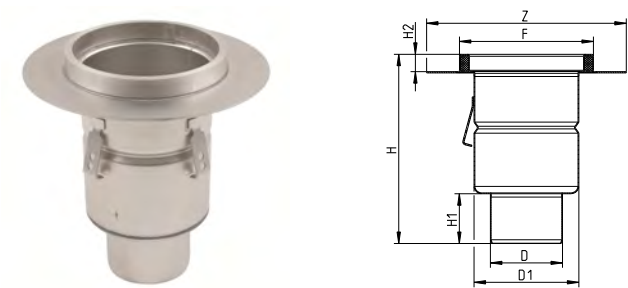
Only for low filter basket together with water trap

INDUSTRIAL DRAIN TYPE 760



Type no.	EAN no.	D	D1	F	H	H1
760.502.075	5705499109504	75	160	Ø205	278	65
760.502.110	5705499109528	110	160	Ø205	289	76
760.503.110	5705499109542	110	250	Ø305	360	76
760.503.160	5705499109566	160	250	Ø305	378	95

INDUSTRIAL DRAIN TYPE 760



Type no.	EAN no.	D	D1	F	Z	H	H1	H2
760.522.075	5705499123623	75	160	Ø205	Ø305	278	65	27
760.522.110	5705499123630	110	160	Ø205	Ø305	289	76	27

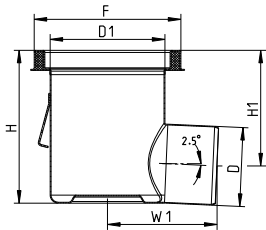
INDUSTRIAL DRAIN, LOW MODEL TYPE 766



Type no.	EAN no.	D	D1	F	H	H1
766.502.075	5705499110449	75	160	Ø205	228	65
766.502.110	5705499110463	110	160	Ø205	239	76
766.503.075	5705499110487	75	250	Ø305	269	65
766.503.110	5705499110500	110	250	Ø305	278	76
766.503.160	5705499110524	160	250	Ø305	296	95

Only for low filter basket together with water trap.

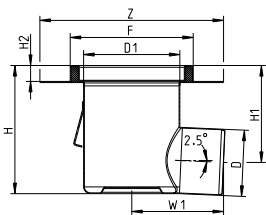
INDUSTRIAL DRAIN TYPE 763



Type no.	EAN no.	D	D1	F	H	H1	W1
763.502.075	5705499110067	75	160	Ø205	213	180	250
763.502.110	5705499110081	110	160	Ø205	213	161	153
763.503.110	5705499110104	110	250	Ø305	259	207	201

Drains with outlet other than D=110mm come fitted with adaptor.

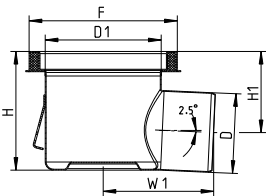
INDUSTRIAL DRAIN TYPE 763



Type no.	EAN no.	D	D1	F	Z	H	H1	H2	W1
763.522.075	5705499123593	75	160	Ø205	Ø305	213	180	27	250
763.522.110	5705499123609	110	160	Ø205	Ø305	213	161	27	153

Drains with outlet other than D=110mm come fitted with adaptor.

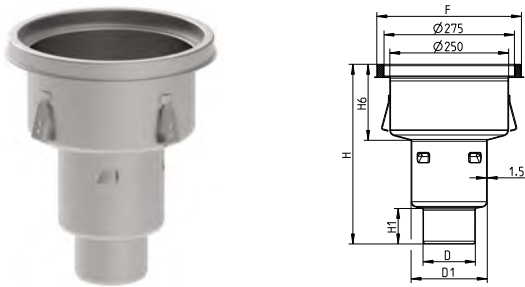
INDUSTRIAL DRAIN, LOW MODEL TYPE 726



Type no.	EAN no.	D	D1	F	H	H1	W1
726.502.075	5705499108941	75	160	Ø205	164	131	250
726.502.110	5705499108965	110	160	Ø205	164	112	153
726.503.110	5705499108989	110	250	Ø305	177	125	201

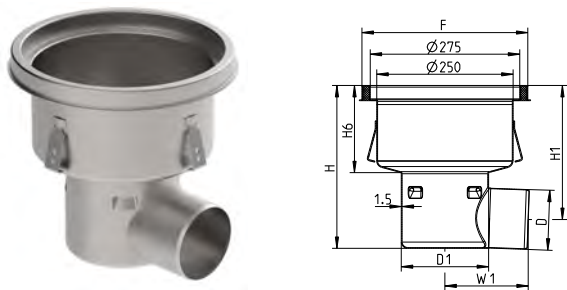
Drains with outlet other than D=110mm come fitted with adaptor.
Only for low filter basket together with water trap.

HYGIENICPRO INDUSTRIAL DRAIN TYPE 755



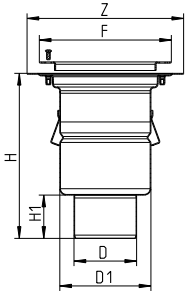
Type no.	EAN no.	D	D1	F	H	H1	H6
755.513.110	5705499137804	110	160	Ø305	275	75	57
755.503.110	5705499137781	110	160	Ø305	378	75	160
755.573.110	5705499137828	110	160	Ø305	455	75	237

HYGIENICPRO INDUSTRIAL DRAIN TYPE 756



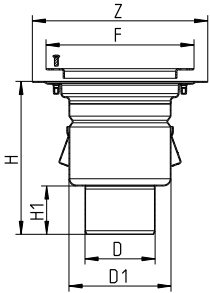
Type no.	EAN no.	D	D1	F	H	H1	H6	W1
756.513.110	5705499137866	110	160	Ø305	196	143	57	153
756.503.110	5705499137842	110	160	Ø305	299	246	160	153
756.573.110	5705499137880	110	160	Ø305	376	323	237	153

INDUSTRIAL DRAIN TYPE 760



Type no.	EAN no.	D	D1	F	Z	H	H1
760.602.075	5705499109580	75	160	Ø232	Ø275	279	65
760.602.110	5705499109603	110	160	Ø232	Ø275	290	76
760.603.110	5705499109627	110	250	Ø332	Ø375	366	76

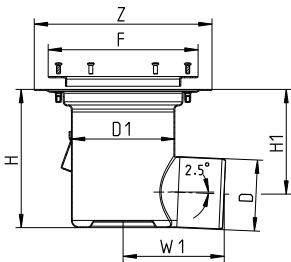
INDUSTRIAL DRAIN, LOW MODEL TYPE 766



Type no.	EAN no.	D	D1	F	Z	H	H1
766.602.075	5705499110548	75	160	Ø232	Ø275	229	65
766.602.110	5705499110562	110	160	Ø232	Ø275	240	76
766.603.075	5705499110586	75	250	Ø332	Ø375	275	65
766.603.110	5705499110609	110	250	Ø332	Ø375	284	76

Only for low filter basket together with water trap.

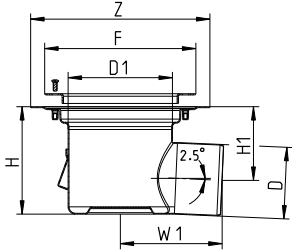
INDUSTRIAL DRAIN TYPE 763



Type no.	EAN no.	D	D1	F	Z	H	H1	W1
763.602.075	5705499110142	75	160	Ø232	Ø275	214	181	250
763.602.110	5705499110166	110	160	Ø232	Ø275	214	162	153
763.603.110	5705499110180	110	250	Ø332	Ø375	265	213	201

Drains with outlet other than D=110mm come fitted with adaptor.

INDUSTRIAL DRAIN, LOW MODEL TYPE 726



Type no.	EAN no.	D	D1	F	Z	H	H1	W1
726.602.075	5705499109023	75	160	Ø232	Ø275	165	132	250
726.602.110	5705499109047	110	160	Ø232	Ø275	165	113	153
726.603.110	5705499109061	110	250	Ø332	Ø375	183	131	201

Drains with outlet other than D=110mm come fitted with adaptor.
Only for low filter basket together with water trap.

BLÜCHER® Drain Industrial - TWO PART

Adjustable drains - Total installations heights (minimum and maximum)

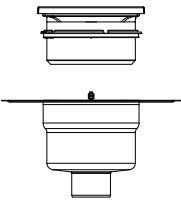
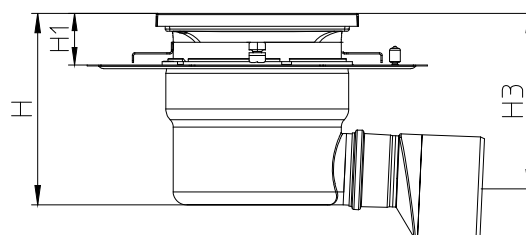
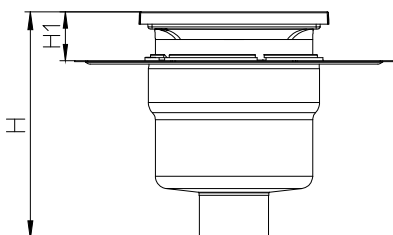
		Upper part Industrial 200		Uppper part Industrial 250		Upper part Industrial 300	
		Type 710	Type 774	Type 710	Type 774	Type 710	Type 774
2-part drain 			774.402.000  774.502.000  774.602.000  774.702.000 			710.403.000 	
		710.402.000  710.502.000  710.602.000 	774.422.000  774.452.000  774.552.000 			710.503.000  710.603.000  710.423.000 	774.403.000  774.503.000  774.603.000 
	Frame to lower part (min)	H1 = 51mm	H1 = 60mm	H1 = 53mm	H1 = 65mm	H1 = 73mm	H1 = 80mm
	Height adjustment H1	30mm	60mm	30mm	60mm	60mm	60mm
Lower part DOMESTIC	110.000.075 	154-184		156-186			
		109-139		111-141			
	110.000.110 	175-205		177-207			
		122-152		124-154			
Lower part INDUSTRIAL 200	150.000.075 	224-254		226-256			
	150.000.110 	192-222		194-224			
	763.002.075 		277-337		282-342	290-350	
			245-305		250-310	258-318	
Lower part INDUSTRIAL 200	763.002.110 		277-337		282-342	290-350	
			225-285		230-290	238-298	
	763.042.110 		231-291		236-296	244-304	
			179-239		184-244	192-252	
	760.002.075 		327-387		332-392	340-400	
	760.160.075 		316-376		321-381	329-389	
	760.002.110 		338-398		343-403	351-411	
	760.160.110 		327-387		332-392	340-400	
	777.002.000 		250-310		255-315	263-323	
	779.002.000 						
Lower part INDUSTRIAL 300	763.003.110 						296-356
							244-304
	763.003.160 						296-356
							271-331
	760.003.110 						370-430
	760.003.160 						388-448
	777.003.000 						276-336
	779.003.000 						

Table shows total installation heights [H] from frame top to lowest point on lower part
 Dimensions in gray cells are height from frame top to centre of outlet [H3]



BLÜCHER® Drain Industrial - THREE PART

Adjustable drains - Total installations heights (minimum and maximum)

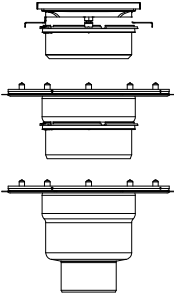
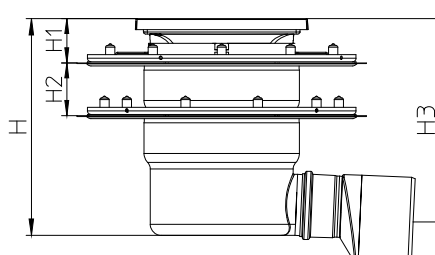
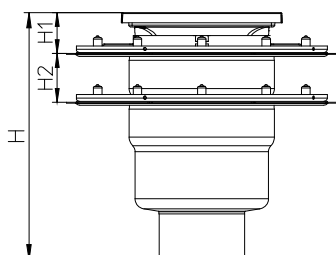
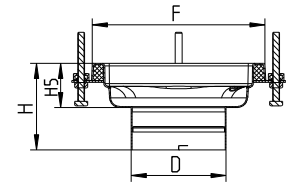
		Upper part Industrial 200		Upper part Industrial 250		Upper part Industrial 300			
		Type 710	Type 774	Type 710	Type 774	Type 710	Type 774		
3-part drain 			774.402.000 774.502.000 774.602.000 774.702.000 710.402.000 710.502.000 710.602.000					710.403.000 710.503.000 710.603.000 710.423.000	774.403.000 774.503.000 774.603.000
	Frame to lower part (min)	H1 = 51mm	H1 = 60mm	H1 = 53mm	H1 = 65mm	H1 = 73mm	H1 = 80mm		
	Frame to flange (min)	H2 = 3mm	H2 = 100mm	H2 = 3mm	H2 = 100mm	H2 = 100mm	H2 = 95mm		
	Height adjustment H1 and H2	30mm	60mm	30mm	60mm	60mm	60mm		
	Lower part DOMESTIC    	157-217		159-219					
		112-172		114-174					
		178-238		180-240					
		125-185		127-187					
		227-287		229-289					
		195-255		197-257					
Lower part INDUSTRIAL 200         		377-497		382-502	390-510				
		345-465		350-470	358-478				
		377-497		382-502	390-510				
		325-445		330-450	338-458				
		331-451		336-456	344-464				
		279-399		284-404	292-412				
		427-547		432-552	440-560				
		416-536		421-541	429-549				
		438-558		443-563	451-571				
		427-547		432-552	440-560				
	350-470		355-475	363-483					
Lower part INDUSTRIAL 300      						391-511			
						339-459			
						391-511			
						366-486			
						465-585			
						483-603			
						371-491			

Table shows total installation heights [H] from frame top to lowest point on lower part

Dimensions in gray cells are height from frame top to centre of outlet [H3]

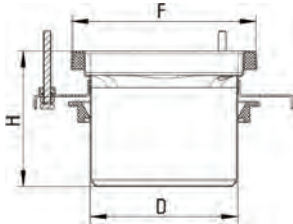


UPPER PART FOR INDUSTRIAL DRAIN TYPE 710
WITH SUPPORTING RING FOR WATER TRAP



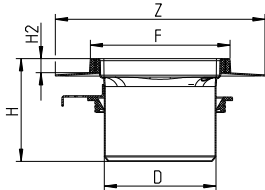
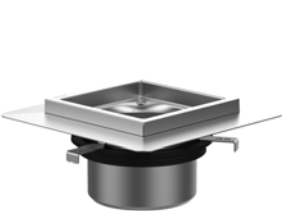
Type no.	EAN no.	D	F	H	H5
710.402.000	5705499108125	110	200x200	100	51
710.403.000	5705499108200	160	300x300	161	70

UPPER PART FOR INDUSTRIAL DRAIN TYPE 774



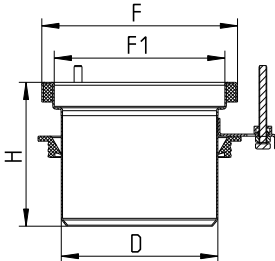
Type no.	EAN no.	D	F	H
774.402.000	5705499111989	160	200x200	147
774.403.000	5705499112115	250	300x300	172

UPPER PART FOR INDUSTRIAL DRAIN TYPE 774
WITH LIQUID MEMBRANE FLANGE



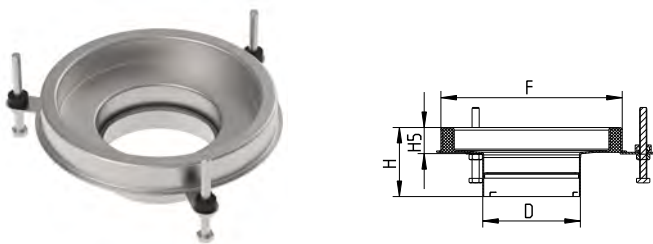
Type no.	EAN no.	D	F	Z	H	H2
774.422.000	5705499112290	160	200x200	300x300	147	20

UPPER PART FOR INDUSTRIAL DRAIN TYPE 774



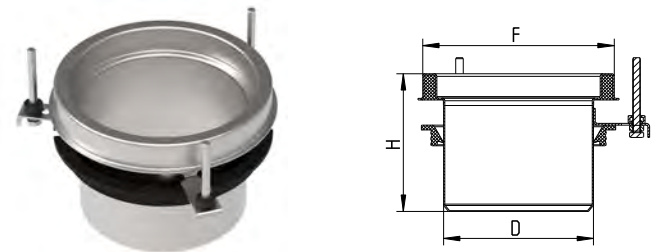
Type no.	EAN no.	D	F	F1	H
774.702.000	5705499138702	160	200x200	Ø175	147

UPPER PART FOR INDUSTRIAL DRAIN TYPE 710
WITH SUPPORTING RING FOR WATER TRAP



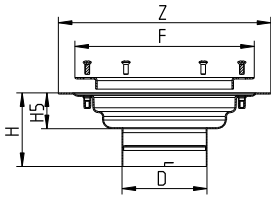
Type no.	EAN no.	D	F	H	H5
710.502.000	5705499108286	110	Ø205	78	30
710.503.000	5705499108347	160	Ø305	157	59

UPPER PART FOR INDUSTRIAL DRAIN TYPE 774



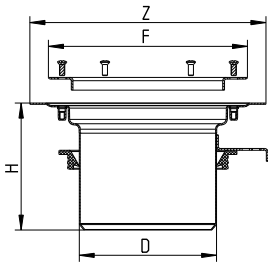
Type no.	EAN no.	D	F	H
774.502.000	5705499112337	160	Ø205	147
774.503.000	5705499112399	250	Ø305	172

UPPER PART FOR INDUSTRIAL DRAIN TYPE 710
WITH SUPPORTING RING FOR WATER TRAP



Type no.	EAN no.	D	F	Z	H	H5
710.602.000	5705499108408	110	Ø232	Ø275	95	46
710.603.000	5705499108460	160	Ø332	Ø375	156	65

UPPER PART FOR INDUSTRIAL DRAIN TYPE 774



Type no.	EAN no.	D	F	Z	H
774.602.000	5705499112498	160	Ø232	Ø275	172
774.603.000	5705499112511	250	Ø332	Ø375	148

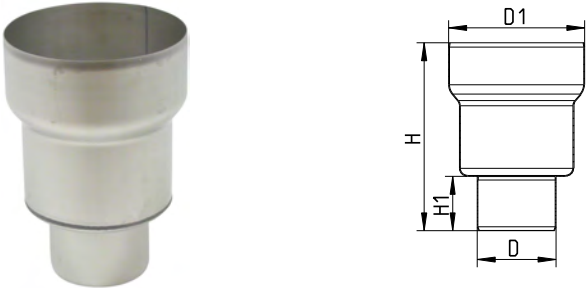
without membrane flange

LOWER PART FOR INDUSTRIAL DRAIN TYPE 150



Type no.	EAN no.	D	D1	H	H1	D2
150.000.075	5705499107074	75	140	173	63	113
150.000.110	5705499107098	110	140	141	79	113

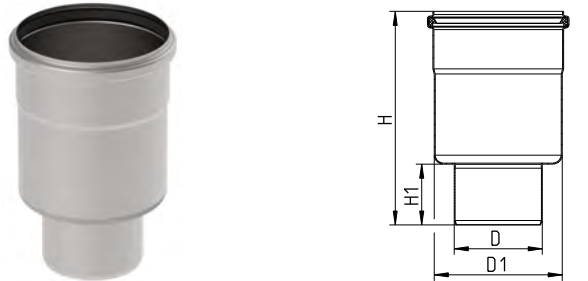
LOWER PART FOR INDUSTRIAL DRAIN TYPE 760



Type no.	EAN no.	D	D1	H	H1
760.002.075	5705499109269	75	190	267	65
760.002.110	5705499109283	110	190	278	76
760.003.110	5705499109306	110	272	290	76
760.003.160	5705499109320	160	272	308	95

Sealing ring included with the upper part.

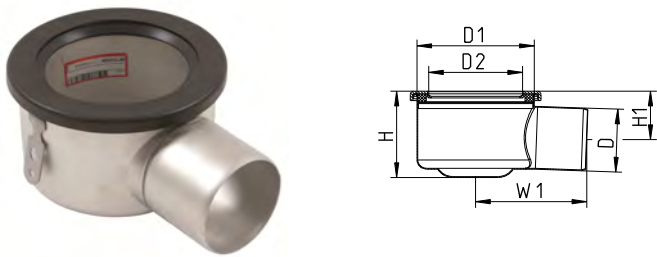
LOWER PART FOR INDUSTRIAL DRAIN TYPE 760



Type no.	EAN no.	D	D1	H	H1
760.160.075	5705499138016	75	160	256	65
760.160.110	5705499135343	110	160	267	76

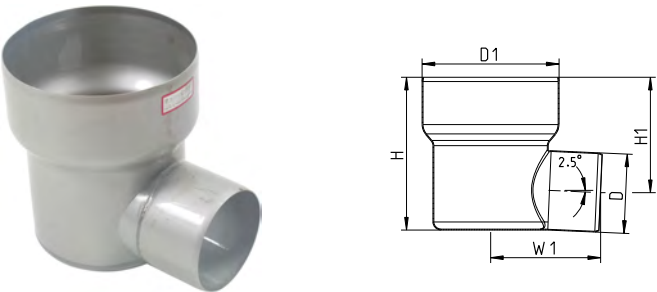
without membrane flange

LOWER PART FOR INDUSTRIAL DRAIN TYPE 110



Type no.	EAN no.	D	D1	H	H1	W1	D2
110.000.075	5705499107036	75	140	103	58	133	113
110.000.110	5705499129403	110	140	124	71	143	113

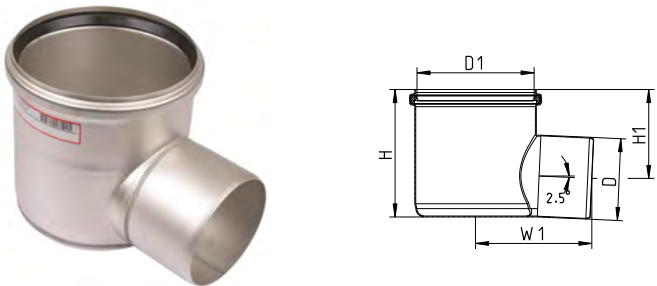
LOWER PART FOR INDUSTRIAL DRAIN TYPE 763



Type no.	EAN no.	D	D1	H	H1	W1
763.002.075	5705499109825	75	190	212	179	250
763.002.110	5705499109849	110	190	212	160	153
763.003.110	5705499109863	110	272	216	164	201
763.003.160	5705499109887	160	272	216	192	335

Sealing ring included with the upper part.
Drains with outlet other than D=110mm come fitted with adaptor.

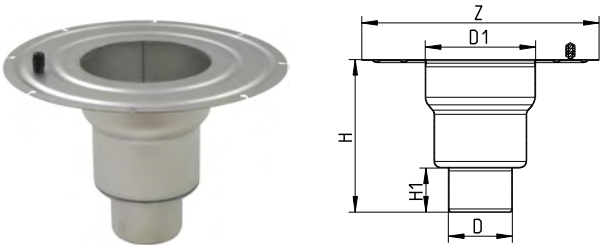
LOWER PART FOR INDUSTRIAL DRAIN, LOW MODEL TYPE 763



Type no.	EAN no.	D	D1	H	H1	W1
763.042.110	5705499131925	110	160	171	119	156

with liquid membrane flange

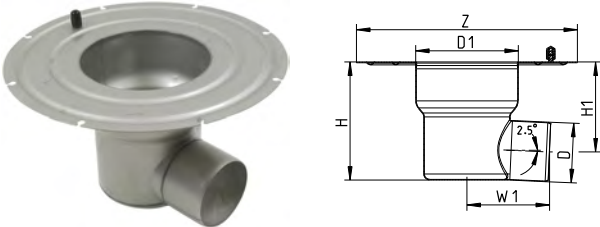
LOWER PART FOR INDUSTRIAL DRAIN TYPE 774



Type no.	EAN no.	D	D1	Z	H	H1
774.002.075	5705499111903	75	190	Ø409	267	65
774.002.110	5705499111927	110	190	Ø409	278	76
774.003.110	5705499111941	110	272	Ø507	290	76
774.003.160	5705499111965	160	272	Ø507	308	95

Sealing ring included with the upper part

LOWER PART FOR INDUSTRIAL DRAIN TYPE 769

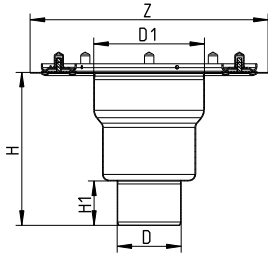


Type no.	EAN no.	D	D1	Z	H	H1	W1
769.002.075	5705499110869	75	190	Ø409	218	186	250
769.002.110	5705499110883	110	190	Ø409	218	166	153
769.003.110	5705499110906	110	272	Ø507	216	164	201
769.003.160	5705499110920	160	272	Ø507	216	191	335

Sealing ring included with the upper part.
Drains with outlet other than D=110mm come fitted with adaptor.

with sheet membrane flange

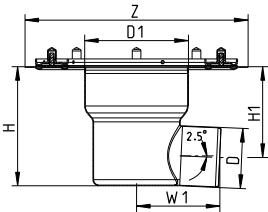
LOWER PART FOR INDUSTRIAL DRAIN TYPE 775



Type no.	EAN no.	D	D1	Z	H	H1
775.002.075	5705499112573	75	190	Ø409	267	65
775.002.110	5705499112597	110	190	Ø409	278	76
775.003.110	5705499112610	110	272	Ø507	290	76
775.003.160	5705499112634	160	272	Ø507	308	95

Sealing ring included with the upper part

LOWER PART FOR INDUSTRIAL DRAIN TYPE 771

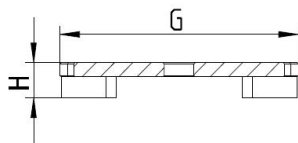


Type no.	EAN no.	D	D1	Z	H	H1	W1
771.002.075	5705499111224	75	190	Ø409	218	186	250
771.002.110	5705499111248	110	190	Ø409	218	166	153
771.003.110	5705499111262	110	272	Ø507	216	164	201
771.003.160	5705499111286	160	272	Ø507	216	191	335

Sealing ring included with the upper part.
Drains with outlet other than D=110mm come fitted with adaptor.

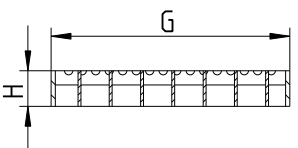
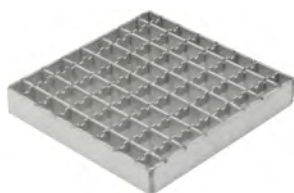
Gratings SQUARE

SLOT GRATING SQUARE



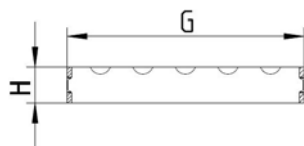
Type no.	EAN no.	G	H	EN1253 (kg)	Non slip	Screws
790.168.000.10	5705499113440	170x170	25	R50 (5.000)	R10	0
790.268.000.10	5705499113648	270x270	25	R50 (6.000)	R10	0

MESH GRATING SQUARE



Type no.	EAN no.	G	H	EN1253 (kg)	Non slip	Screws
790.168.000.22	5705499113464	168x168	25	L15 (2.000)	R12	0
790.268.000.22	5705499113655	268x268	25	L15 (1.750)	R12	0

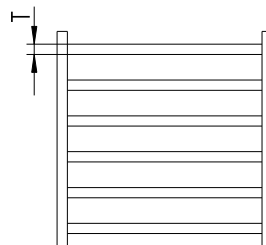
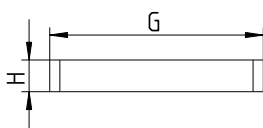
LADDER GRATING SQUARE



Type no.	EAN no.	G	H	EN1253 (kg)	Non slip	Screws
790.168.000.25	5705499113488	168x168	25	R50 (5.000)	R11	0
790.268.000.25	5705499113679	268x268	40	M125 (10.000)	R11	0

LADDER GRATING SQUARE

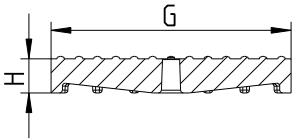
8 MM MATERIAL, FULLY WELDED



Type no.	EAN no.	G	H	T	EN1253 (kg)	Non slip	Screws
790.168.000.28	5705499124163	168x168	25	8	M125 (12.000)	R11	0
790.268.000.28	5705499128611	268x268	25	8	R50 (7.000)	R11	0

Gratings SQUARE

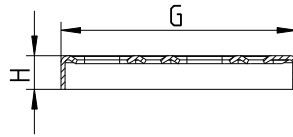
HYGIENICPRO GRATING SQUARE



Type no.	EAN no.	G	H	EN1253 (kg)	Non slip	Screws
790.168.000.60	5705499113495	170x170	24	R50 (7.000)	R10	0
790.268.000.60	5705499113686	270x270	24	R50 (5.000)	R10	0

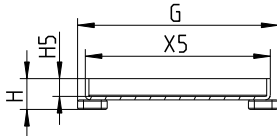
Only available in stainless steel grade AISI CF-8 corresponding to AISI 304C/EN1.4308

3MM GRATING SQUARE



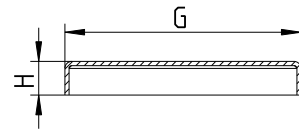
Type no.	EAN no.	H	EN1253 (kg)	Non slip	Screws
790.168.000.03	5705499113433	168x168	24 L15 (1.750)	R10	0
790.268.000.03	5705499113631	268x268	24 L15 (1.250)	R10	0

TILED/EPOXY GRATING SQUARE



Type no.	EAN no.	G	H	H5	X5	EN1253 (kg)	Screws
790.168.000.06	5705499128529	169x169	26	15	156	L15 (1.500)	0
790.268.000.06	5705499128543	269x269	26	15	256	L15 (1.000)	0

BLANK PLATE SQUARE

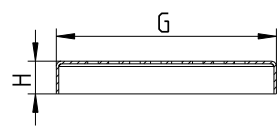
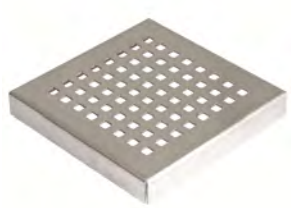


Type no.	EAN no.	G	H	EN1253 (kg)	Screws
790.168.000.00	5705499121179	168x168	24	L15 (1.750)	0
790.268.000.00	5705499121186	268x268	24	L15 (1.500)	0

All dimensions in mm - Stainless Steel grade AISI 316L specify type no. with suffix S

Gratings SQUARE

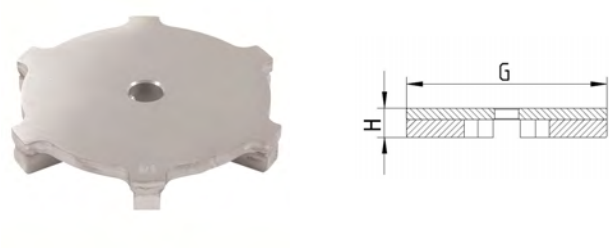
SHOWER GRATING SQUARE



Type no.	EAN no.	G	H	EN1253 (kg)	Non slip	Screws
790.168.000.04	5705499128420	168x168	25	K3 (800)	R10	0
790.268.000.04	5705499128451	268x268	25	K3 (600)	R10	0

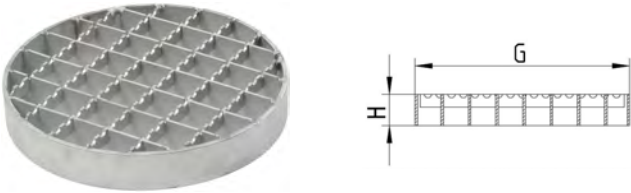
Gratings CIRCLE

SLOT GRATING CIRCLE



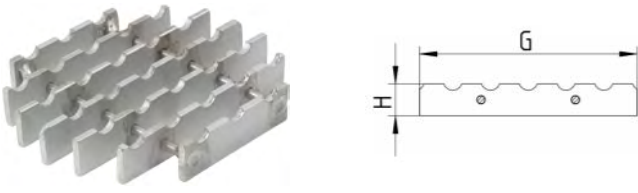
Type no.	EAN no.	G	H	EN1253 (kg)	Non slip	Screws
790.173.000.10	5705499113587	Ø173	25	M125 (10.000)	R10	0
790.273.000.10 S	5705499106862	Ø273	25	M125 (8.333)	R10	0

MESH GRATING CIRCLE



Type no.	EAN no.	G	H	EN1253 (kg)	Non slip	Screws
790.173.000.22	5705499113600	Ø173	25	R50 (3.500)	R12	0
790.273.000.22	5705499113792	Ø273	25	L15 (2.000)	R12	0

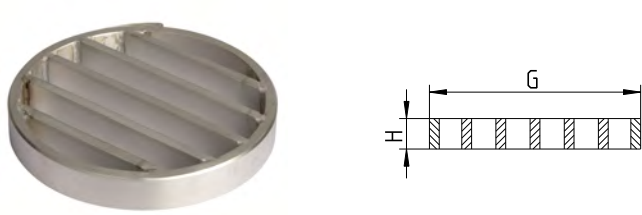
LADDER GRATING CIRCLE



Type no.	EAN no.	G	H	EN1253 (kg)	Non slip	Screws
790.173.000.25 S	5705499106831	Ø173	25	R50 (5.000)	R11	0
790.273.000.25 S	5705499106879	Ø273	25	R50 (3.333)	R11	0

LADDER GRATING CIRCLE

8 MM MATERIAL, FULLY WELDED

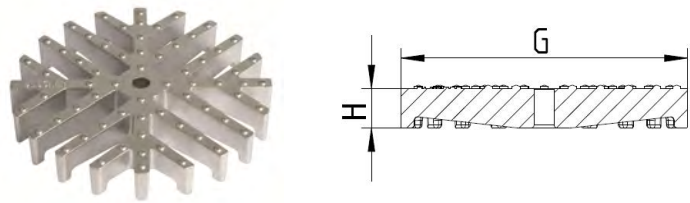


Type no.	EAN no.	G	H	EN1253 (kg)	Non slip	Screws
790.173.000.28	5705499128628	Ø173	25	N250 (16.666)	R11	0
790.273.000.28	5705499128635	Ø273	25	M125 (10.000)	R11	0

All dimensions in mm - Stainless Steel grade AISI 316L specify type no. with suffix S

Gratings CIRCLE

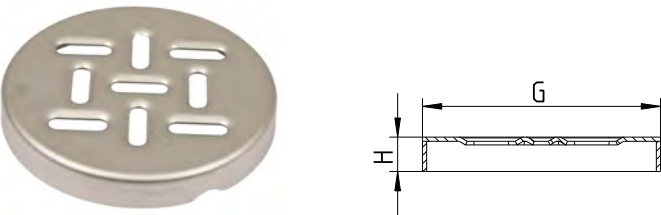
HYGIENICPRO GRATING CIRCLE



Type no.	EAN no.	G	H	EN1253 (kg)	Non slip	Screws
790.173.000.60	5705499128345	Ø173	24	M125 (8.333)	R10	0
790.273.000.60	5705499128352	Ø273	24	R50 (5.000)	R10	0

Only available in stainless steel grade AISI CF-8 corresponding to AISI 304C/EN1.4308

3MM GRATING CIRCLE



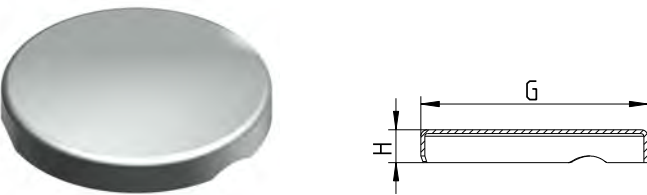
Type no.	EAN no.	G	H	EN1253 (kg)	Non slip	Screws
790.173.000.03 S	5705499106817	Ø173	25	L15 (2.500)	R10	0
790.273.000.03 S	5705499106855	Ø273	25	L15 (1.000)	R10	0

TILED/EPOXY GRATING CIRCLE



Type no.	EAN no.	G	H	H5	X5	EN1253 (kg)	Screws
790.173.000.06	5705499128550	Ø173	25	14	160	L15 (1.000)	0
790.273.000.06	5705499128567	Ø273	25	14	259	K3 (750)	0

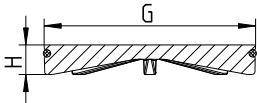
BLANK PLATE CIRCLE



Type no.	EAN no.	G	H	EN1253 (kg)	Screws
790.173.000.00	5705499121216	Ø173	25	L15 (2.500)	0
790.273.000.00	5705499121223	Ø273	25	L15 (1.000)	0

Gratings CIRCLE

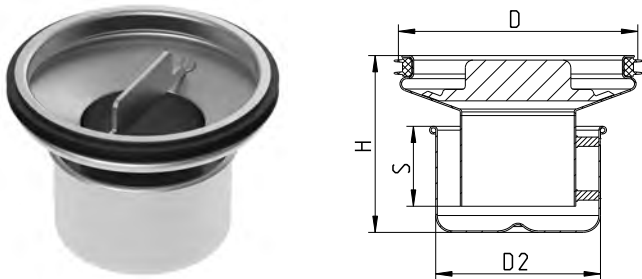
GASTIGHT BLANK PLATE CIRCLE



Type no.	EAN no.	G	H	EN1253 (kg)	Screws
790.173.000.07 S	5705499138726	Ø174	25	N250 (20.000)	0

Water traps

REMOVABLE WATER TRAP TYPE 562.00



Type no.	EAN no.	D	H	S	D2	Max Flow (l/s)
562.002.000 S	5705499107968	157	115	52	107	3.3

Accurate flow rate depending on type of drain and grating.

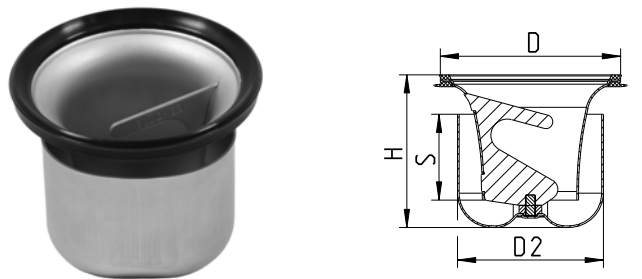
REMOVABLE TWO-PART WATER TRAP TYPE 562.10



Type no.	EAN no.	D	H	S	D2	Min Flow (l/s)	Max Flow (l/s)
562.102.000 S	5705499137903	157	113	50	120	3.4	6.0
562.103.000 S	5705499138733	246	118	52	197	5.6	7.8

Accurate flow rate depending on type of drain and grating.

REMOVABLE TWO-PART WATER TRAP TYPE 502.050

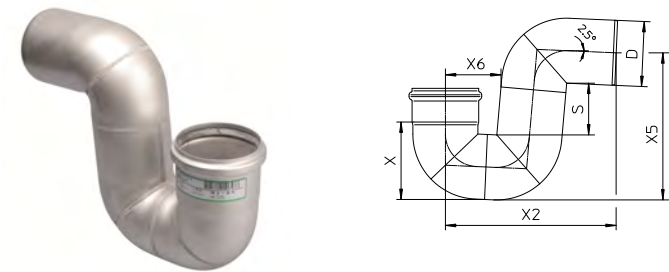


Type no.	EAN no.	D	H	S	D2	Max Flow (l/s)
502.050.110	5705499124064	108	89	50	85	1.7

Accurate flow rate depending on type of drain and grating.

Water traps

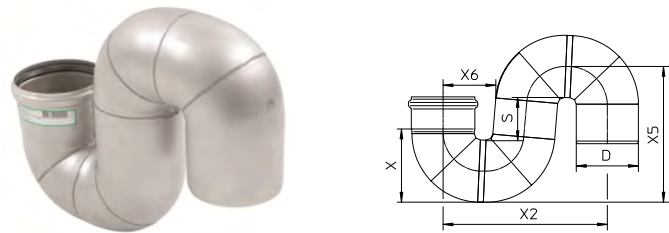
P-TRAP 87.5° TYPE 525.090



Type no.	EAN no.	D	S	X	X2	X5	X6	Min Flow (l/s)	Max Flow (l/s)
525.090.075 S	5705499101478	75	81	93	222	189	74	2.5	3.7
525.090.110 S	5705499101485	110	89	132	289	249	94	3.4	10.4
525.090.160 S	5705499101492	160	105	187	388	338	121	7.5	28.5

Accurate flow rate depending on installation.

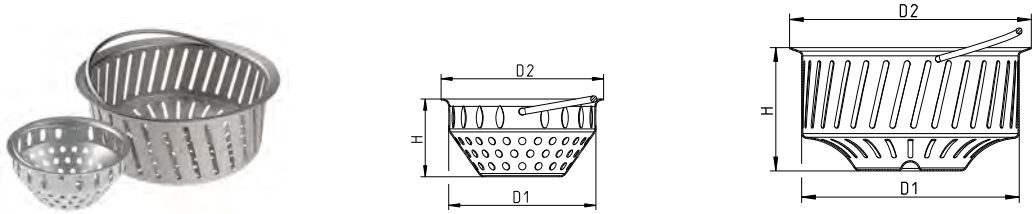
S-TRAP 180° TYPE 525.180



Type no.	EAN no.	D	S	X	X2	X5	X6
525.180.075 S	5705499114102	75	81	93	217	190	74
525.180.110 S	5705499114119	110	89	132	292	249	94
525.180.160 S	5705499114126	160	105	187	394	342	122

Others

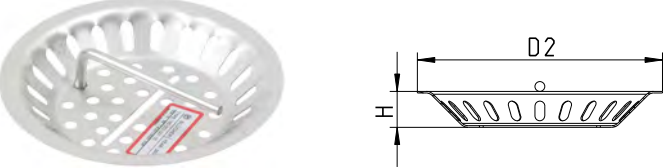
FILTER BASKET TYPE 780



Type no.	EAN no.	D1	H	D2	Volume (l)
780.002.000.05	5705499113358	140	74	155	0.9
780.004.020.05	5705499137941	220	125	245	3.9

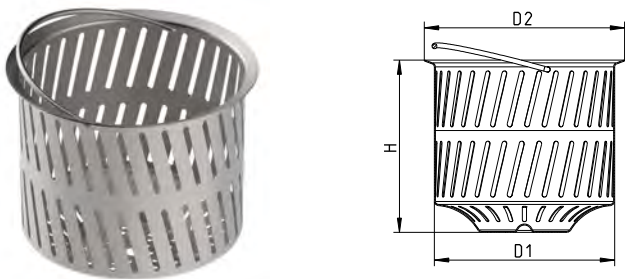
If the drain is to be fitted with both filter basket and water trap, make sure that the height of the drain is sufficient.

FILTER BASKET, LOW MODEL TYPE 780



Type no.	EAN no.	H	D2	Volume (l)
780.002.001.05	5705499113372	22	150	0.2
780.004.010.05	5705499137934	41	245	0.8

FILTER BASKET, HIGH MODEL TYPE 780

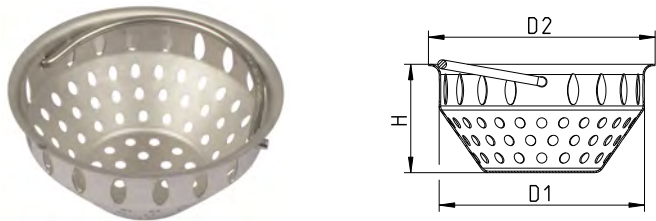


Type no.	EAN no.	D1	H	D2	Volume (l)
780.004.030.05	5705499137958	220	210	245	7.1

If the drain is to be fitted with both filter basket and water trap, make sure that the height of the drain is sufficient.

Others

FILTER BASKET, WIHOUT BOTTOM SLOT TYPE 780

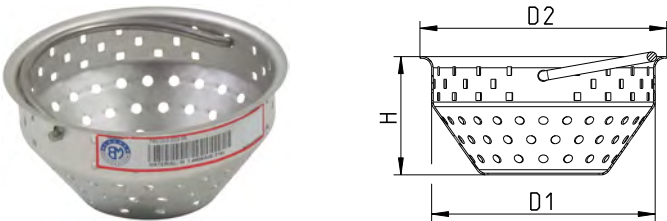


Type no.	EAN no.	D1	H	D2
780.002.004.05	5705499128499	140	74	155

If the drain is to be fitted with both filter basket and water trap, make sure that the height of the drain is sufficient.

FILTER BASKET TYPE 780

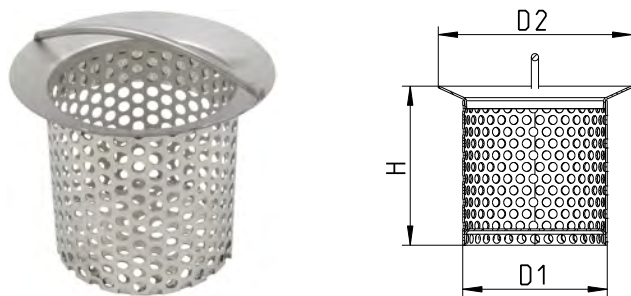
WITH 6 MM HOLES



Type no.	EAN no.	D1	H	D2
780.002.003.05	5705499119909	140	74	155

If the drain is to be fitted with both filter basket and water trap, make sure that the height of the drain is sufficient.

FILTER BASKET TYPE 780



Type no.	EAN no.	D1	H	D2
780.107.110.05 S	5705499104486	80	88	107

Others

FILTER BASKET FOR REMOVABLE TWO-PART WATER TRAP



Type no.	EAN no.	H5	D2
502.000.000 S	5705499124101	24	106

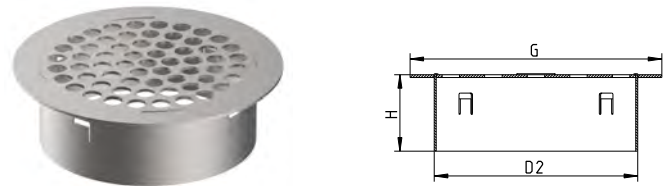
SAND BUCKET TYPE 780



Type no.	EAN no.	D1	H	D2
780.002.000.00	5705499113334	140	74	155
780.004.020.00	5705499138764	220	125	245

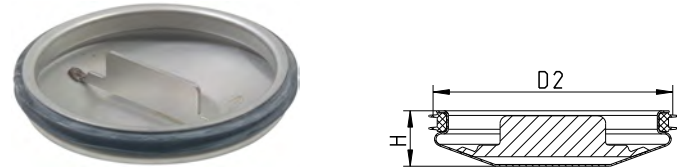
If the drain is to be fitted with both sand bucket and water trap, make sure that the height of the drain is sufficient.

OUTLET FILTER
FOR DRAINS WITH VERTICAL OUTLET



Type no.	EAN no.	G	H	D2
780.400.075.05	5705499135305	Ø95	40	70
780.400.110.05	5705499135251	Ø130	40	105
780.400.160.05	5705499135480	Ø180	40	155

PLUG FOR INDUSTRIAL DRAINS



Type no.	EAN no.	H	D2
620.300.019 S	5705499118568	23	108
700.000.004 S	5705499118575	36	157
700.000.250 S	5705499138818	27	246

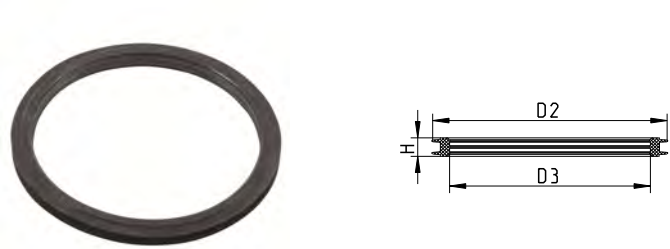
Others

SEALING RING FOR WATER TRAP TYPE 502.050.110



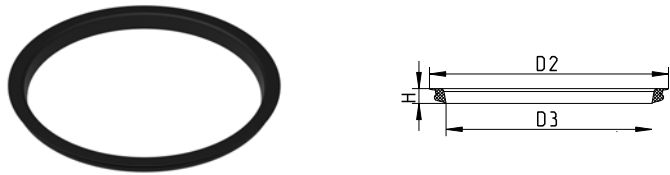
Type no.	EAN no.	H	D2	D3	Material
620.300.042	5705499127331	7	102	87	EPDM
620.300.042 N	5705499138993	7	102	87	NBR

SEALING RING FOR WATER TRAP TYPE 562.00



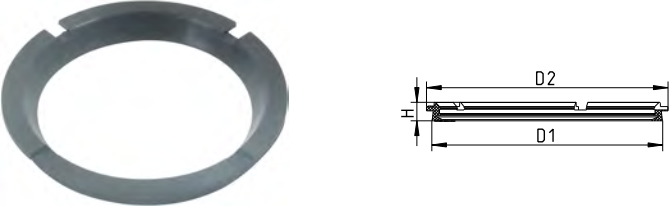
Type no.	EAN no.	Designation.	H	D2	D3	Material
562.002.EPDM	5705499108002	Fits trap type no. 562.002.000 S	12	154	131	EPDM
562.003.EPDM	5705499108071	Fits trap type no. 562.003.000 S	12	249	225	EPDM

SEALING RING FOR WATER TRAP TYPE 562.10



Type no.	EAN no.	Designation.	H	D2	D3	Material
562.103.EPDM	5705499138740	Fits trap type no. 562.103.000 S	16	260	223	EPDM
562.103.NBR	5705499138757	Fits trap type no. 562.103.000 S	16	260	223	NBR

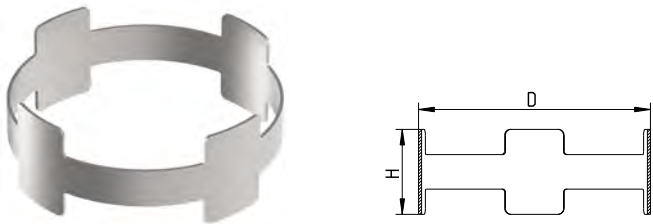
SEALING RING FOR INDUSTRIAL LOWER PART



Type no.	EAN no.	Designation	D1	H	D2	Material
700.002.EPDM	5705499108101	Fits all lower parts type XXX.002.XXX	189	22	208	EPDM
700.003.EPDM	5705499108118	Fits all lower parts type XXX.003.XXX	275	22	287	EPDM

Others

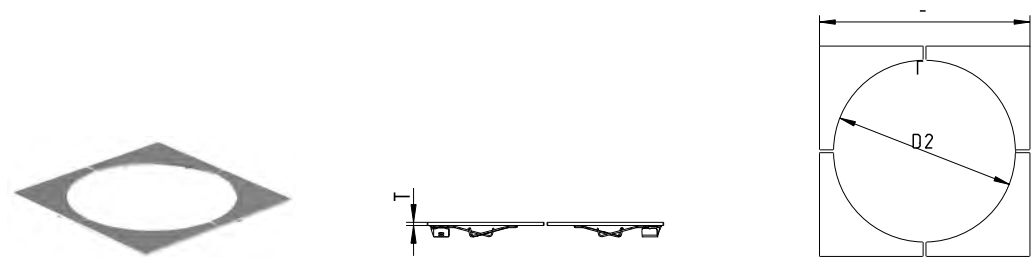
HYGIENICPRO SPACING RING FOR FILTER BASKET



Type no.	EAN no.	D	H
670.000.010	5705499137972	155	57

For medium or high filter basket used together with a P-trap.

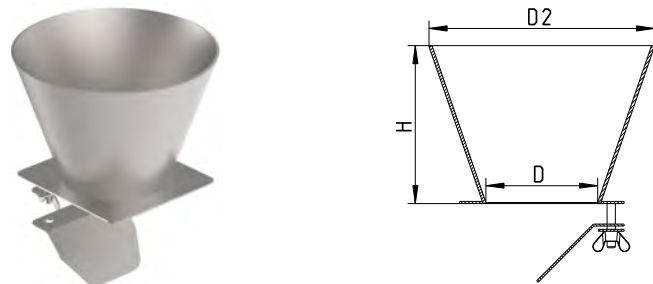
HYGIENICPRO TILE ADAPTOR FOR DRAIN



Type no.	EAN no.	F	D2	T
670.000.022	5705499138009	375x375	325	5

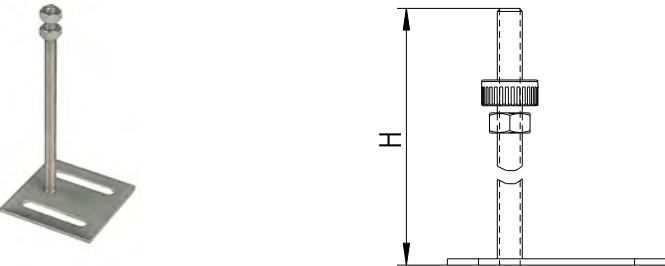
For drains mounted in the tiles.

FUNNEL FOR GRATING



Type no.	EAN no.	D	H	D2
670.005.000	5705499137965	109	153	219

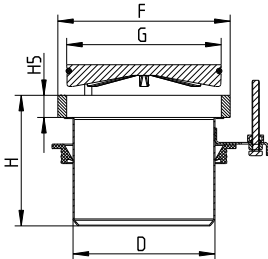
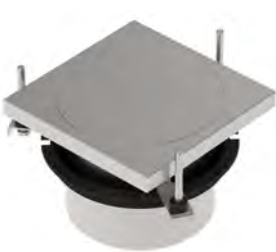
ADJUSTABLE LEGS



Type no.	EAN no.	H
670.000.001	5705499116243	150
670.000.005	5705499131741	300

UPPER PART FOR GASTIGHT DRAIN TYPE 774.4

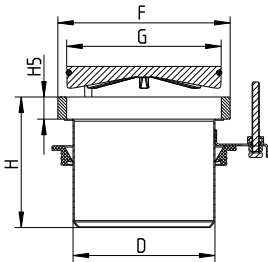
FOR VACUUM HANDLE



Type no.	EAN no.	D	F	G	H	H5	EN1253 (kg)
774.452.000 S	5705499115789	160	200x200	Ø174	147	25	N250 (20.000)

UPPER PART FOR GASTIGHT DRAIN TYPE 774.5

FOR VACUUM HANDLE



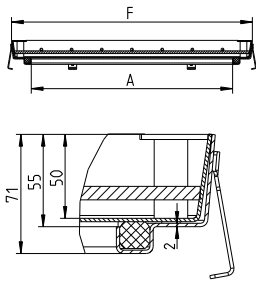
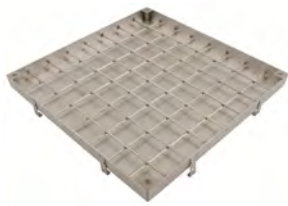
Type no.	EAN no.	D	F	G	H	H5	EN1253 (kg)
774.552.000 S	5705499115826	160	Ø200	Ø166	147	25	N250 (20.000)

VACUUM HANDLE FOR RODDING EYE AND GASTIGHT COVER



Type no.	EAN no.	D
700.000.003	5705499115581	160
700.000.002	5705499115574	110

ACCESS COVER TYPE 792

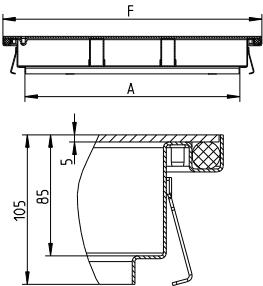


Type no.	EAN no.	Name	F	A	EN124 (kg)
792.030.030	5705499127508	300x300	418x418	300	B125 (12.500)
792.040.040	5705499127515	400x400	518x518	400	B125 (12.500)
792.060.060	5705499127522	600x600	718x718	600	B125 (12.500)
792.080.080	5705499127539	800x800	918x918	800	B125 (12.500)
792.100.100	5705499127546	1000x1000	1118x1118	1000	B125 (12.500)

Use of concrete C35/C45 guarantees the load class (EN124) above.

ACCESS COVER TYPE 793

WITH TEAR PLATE



Type no.	EAN no.	Name	F	A	EN124 (kg)
793.030.030	5705499131659	300x300	428x428	304	B125 (12.500)
793.040.040	5705499131666	400x400	528x528	404	B125 (12.500)
793.060.060	5705499131673	600x600	728x728	604	B125 (12.500)
793.080.080	5705499131680	800x800	928x928	804	B125 (12.500)
793.100.100	5705499131697	1000x1000	1128x1128	1004	B125 (12.500)

HANDLE FOR ACCESS COVER



Type no.	EAN no.
700.000.006	5705499127621

Channels and kitchen channels for commercial and industrial applications



Standard or customised solutions
Hygienic design
Gratings for any purpose and load class

bimready
files at bimstore.co.uk

Applications

For concrete, tiled, vinyl and epoxy flooring in:

- Industrial areas
- Commercial kitchens

Details

- Standard lengths 1 - 6 m (slot channels up to 12 m)
- Longitudinal and cross fall
- Several standard widths
- 2 mm material thickness
- 20 mm frame width
- Anchor tangs
- Gratings for weight loads from 250 to 12000 kg
- Combinable with BLÜCHER® Drain Industrial accessories
- Stainless steel AISI304/EN 1.4301

Variants

- Outlet placed in end or center
- With or without outlet box
- With or without membrane flange

Options

- Removable water trap or P-trap
- Filter basket and sand bucket

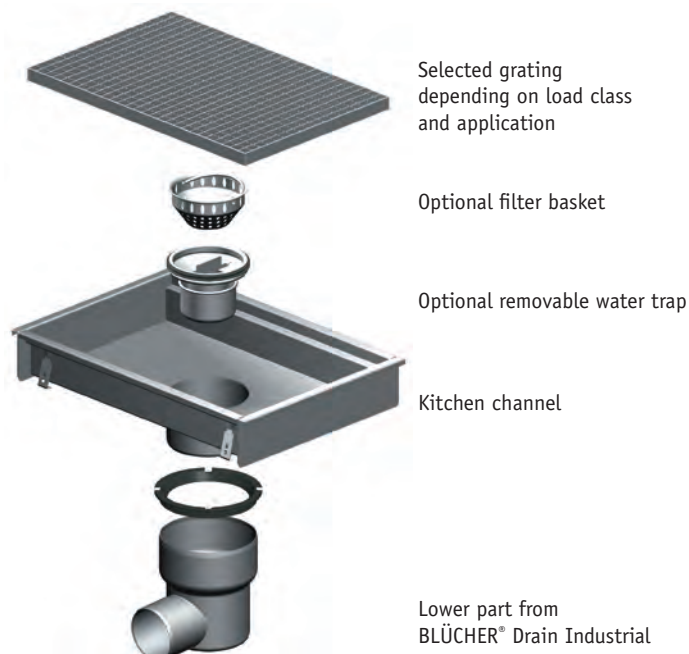
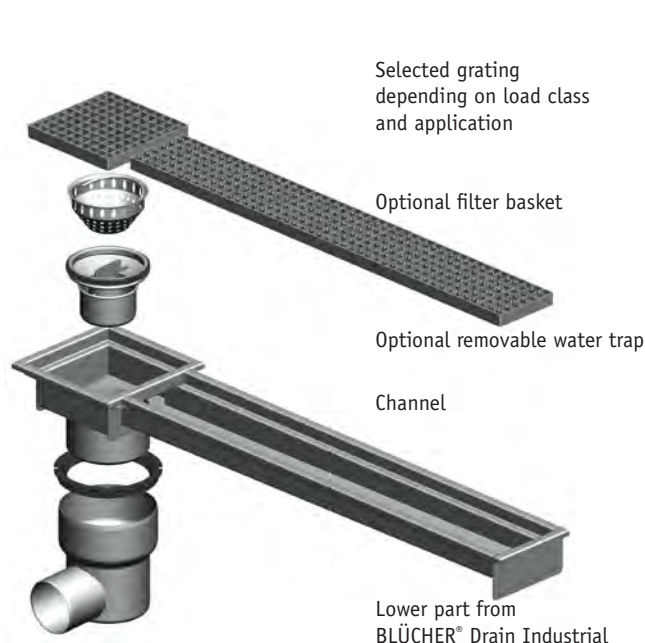
Extras

- Reinforced frames for heavy weight loads
- Stabiliser angle and adjustable legs
- Protective strip and grating lock device

Specialised in customised channels

Product database at www.blucher.co.uk

Complete channels and kitchen channels



Standard channel range or custom solutions

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/tiled/resin floors or for vinyl floors.

Selecting a channel from the standard range is easy: Use the tables to identify type number for the channel to be selected. Then select grating, lower part and accessories, using the diagrams.

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

Options and extras

Stabiliser angles, adjustable legs, edge infill, etc. are among the options available for the standard channel range.

Custom solutions

In addition to the BLÜCHER® standard channel range, BLÜCHER also offers purpose-made channels on request to ensure that all drainage requirements can be satisfied, for instance:

- Channels with corners
- Channels with T-pieces
- Channels in customized lengths
- Channels and gratings in customized widths
- Channels in customized designs
- Channels for other types of flooring
- Channels in acid-resistant stainless steel grade AISI 316L for demanding environments
- Other types of gratings

Our drainage know-how enables us to provide extensive engineering assistance.

For further information please contact our sales department.

Channel range overview

Type 670

Channel for concrete, tiled and resin floors

Width: 150, 200, 300 or 400 mm

Typical application: Shower areas, kitchens, food and beverage production, chemical plants, abattoirs



Type 671

Channel with outlet box for concrete, tiled and resin floors

Width: 150 mm

Typical application: Kitchens, food and beverage production, chemical plants, abattoirs



Type 673

20 mm slot channel with outlet box for concrete, tiled and resin floors

Width: 20 mm aperture

Grating: For outlet box only

Typical application: Food and beverage production, chemical plants, breakwaters, abattoirs



Type 676

HygienicPro® channel for concrete, tiled and resin floors

Width: 150 mm

Typical application: Hygienically demanding areas in food and beverage production



Type 674

Channel with 50 mm liquid membrane flange for concrete, tiled and resin floors

Width: 150, 200, 300 or 400 mm

Typical application: Shower areas, kitchens, food and beverage production, chemical plants, abattoirs, dairies



Channel range overview

Type 677 **8 mm slot channel with 50 mm liquid membrane flange for concrete, tiled and resin floors**

Width: 8 mm aperture

Typical application: Shower areas, swimming pools, breakwaters



Type 678 **Channel with 84 mm liquid membrane flange for concrete, tiled and resin floors**

Width: 150 mm

Typical application: Shower areas, kitchens, food and beverage production, chemical plants, abattoirs, dairies



Type 672 **Channel for vinyl floors**

Width: 150, 200, 300 or 400 mm

Typical application: Shower areas, kitchens

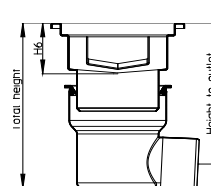
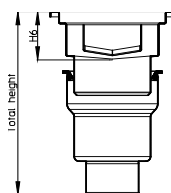
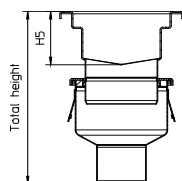


Total installation heights for channels

BLÜCHER® Channel
Total installation heights (minimum and maximum)

Lower parts		Channels											
		Type 670		Type 671		Type 673			Type 674		Type 678	Type 672	
		H5 = 90	H5 = 120	H6 = 100	H6 = 125	H6 = 85	H6 = 100	H6 = 120	H5 = 90	H5 = 120	100 ≤ H5 ≤ 118	H5 = 90	H5 = 120
Channel outlet	Ø110mm		193-238	223-268	---	---	---	---	193-238	223-268	203-266	193-238	223-268
			160-205	190-235	---	---	---	---	160-205	190-235	170-233	160-205	190-235
			193-238	223-268	---	---	---	---	193-238	223-268	203-266	193-238	223-268
			148-193	178-223	---	---	---	---	148-193	178-223	158-221	148-193	178-223
			214-259	244-289	---	---	---	---	214-259	244-289	224-287	214-259	244-289
			161-206	191-236	---	---	---	---	161-206	191-236	171-234	161-206	191-236
	Ø160mm		267-312	297-342	---	---	---	---	267-312	297-342	277-340	267-312	297-342
			263-308	293-338	---	---	---	---	263-308	293-338	273-336	263-308	293-338
			231-276	261-306	---	---	---	---	231-276	261-306	241-304	231-276	261-306
			362-422	392-452	372-432	397-457	357-417	372-432	362-422	392-452	---	362-422	392-452
			373-433	403-463	383-443	408-468	368-428	383-443	373-433	403-463	---	373-433	403-463
			312-372	342-402	322-382	347-407	307-367	322-382	312-372	342-402	---	312-372	342-402
			279-339	309-369	289-349	314-374	274-334	289-349	279-339	309-369	---	279-339	309-369
			312-372	342-402	322-382	347-407	307-367	322-382	312-372	342-402	---	312-372	342-402
			260-320	290-350	270-330	295-355	255-315	270-330	260-320	290-350	---	260-320	290-350
			261-301	291-331	271-311	296-336	256-296	271-311	261-301	291-331	---	261-301	291-331
			209-249	239-279	219-259	244-284	204-244	219-259	209-249	239-279	---	209-249	239-279
			360-400	390-430	370-410	395-435	355-395	370-410	360-400	390-430	---	360-400	390-430
			362-422	392-452	372-432	397-457	357-417	372-432	362-422	392-452	---	362-422	392-452
			373-433	403-463	383-443	408-468	368-428	383-443	373-433	403-463	---	373-433	403-463
			312-372	342-402	322-382	347-407	307-367	322-382	312-372	342-402	---	312-372	342-402
			279-339	309-369	289-349	314-374	274-334	289-349	279-339	309-369	---	279-339	309-369
			312-372	342-402	322-382	347-407	307-367	322-382	312-372	342-402	---	312-372	342-402
			260-320	290-350	270-330	295-355	255-315	270-330	260-320	290-350	---	260-320	290-350
			362-422	392-452	372-432	397-457	357-417	372-432	362-422	392-452	---	362-422	392-452
			373-433	403-463	383-443	408-468	368-428	383-443	373-433	403-463	---	373-433	403-463
			312-372	342-402	322-382	347-407	307-367	322-382	312-372	342-402	---	312-372	342-402
			279-339	309-369	289-349	314-374	274-334	289-349	279-339	309-369	---	279-339	309-369
			312-372	342-402	322-382	347-407	307-367	322-382	312-372	342-402	---	312-372	342-402
			260-320	290-350	270-330	295-355	255-315	270-330	260-320	290-350	---	260-320	290-350

Table shows total installation heights from frame top to lowest point on lower part
Dimensions in gray cells are height from frame top to centre of outlet



HygienicPro®



Matching the strictest hygiene requirements

The HygienicPro® range:

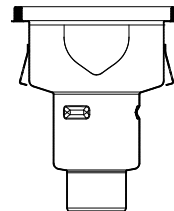
- Point drains or linear drains with center or end outlet
- Channel lengths 1 - 10 metres
- Channel lengths connected to outlet box at different angles
- Outlet box and filter basket in three sizes
- Vertical or horizontal outlet

With a product range consisting of modular components with numerous possible combinations complemented by project-designed bespoke products, BLÜCHER provides customer specific and hygienic drainage solutions to match any drainage project.

TYPE 676

HygienicPro® Channel for concrete, tiled or resin floors

Width (grate location): 150 mm
 Length (grate location): 1 - 10 metres
 Outlet: OD110 mm
 Outlet position: End or center



Installation examples

Linear drainage in hygienically demanding areas in the food and beverage industry, typically fitted with HygienicPro® grating

HygienicPro® are high-capacity channels that provide efficient flow and a high level of self-cleaning. They are easy to clean and prevent bacterial growth while limiting also the water volumes and the production time necessary for operating and cleaning the drainage system.

The outlet can be connected to a "P" water trap or a removable water trap and a filter basket.



Production downtime reduced

Thanks to high-capacity filter basket



Efficient flow towards outlet

New channel geometry keeps channels empty and clean during minimal water flow periods



Hygienic floor concept

Due to rounded corners providing durable floor joints



Easy and efficient floor cleaning

Grating with open sides, rounded corners and no cavities prevents waste and residues from depositing on the grating surface

High-flow water trap

Increases flow rate and improves hygiene by emptying the channel/drain faster. Separable for easy cleaning



Heavy-duty frame for secure bonding to floor

Improving hygiene and durability with frame edge infill and special anchor tangs, minimizing risk of deformation and flooring cracks



Neat and hygienic bonding

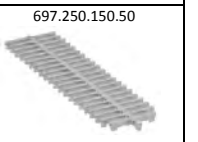
Between floor and drain owing to heavy-duty frame



See grating specifications for non-skid levels and load classes.

Accessories

Accessories and outlet configurations available for channel type 676 HygienicPro®:

Configure your individual HygienicPro® channel					
Profile	A	B	C	D	
					
Length	LA	LB	LC	LD	
	0,5m	0,5m	0,5m	0,5m	
	1m	1m	1m	1m	
	1,5m	1,5m	1,5m	1,5m	
	2m	2m	2m	2m	
	2,5m	2,5m	2,5m	2,5m	
	3m	3m	3m	3m	
	3,5m	3,5m	3,5m	3,5m	
	4m	4m	4m	4m	
	4,5m	4,5m	4,5m	4,5m	
	5m	5m	5m	5m	
Outlet	Vertical	Horizontal			
					
Horizontal outlet angle	0°	90°	180°	270°	Other
					
Grating	Drain	Channel	Channel		
	790.273.000.60	697.250.150.57	697.250.150.50		
					
Water trap	Water trap				
	562.102.000				
					
Filter basket	Low	Medium	High		
	780.004.010.05	780.004.020.05	780.004.030.05		
					
Accessories	Filter 500mm	Tile adapters	Funnel	Filter spacer	
	780.005.150.05	670.000.020 Tile adaptor end	670.005.000	670.000.010	
		670.000.021 Tile adaptor center			

Kitchen Channel Range Overview

Type 660

Width (grate location):
Length (grate location):
Typical applications:

Kitchen channel for concrete, tiled and resin floors

300, 400, 500 or 600 mm
400, 500, 800, 900 or 1000 mm
Kitchens, food and beverage production, chemical plants, abattoirs



Type 664

Width (grate location):
Length (grate location):
Typical applications:

Kitchen channel with 50 mm liquid membrane flange for concrete, tiled and resin floors

300, 400, 500 or 600 mm
400, 500, 800, 900 or 1000 mm
Kitchens, food and beverage production, chemical plants, abattoirs, dairies



Type 668

Width (grate location):
Length (grate location):
Typical applications:

Kitchen channel with 100 mm liquid membrane flange for concrete, tiled and resin floors

200, 300, 400, 500 or 600 mm
200, 300, 400, 500, 600, 800, 900 or 1000 mm
Kitchens, food and beverage production, chemical plants, abattoirs, dairies



Type 662

Width (grate location):
Length (grate location):
Typical applications:

Kitchen channel for vinyl floors

300, 400, 500 or 600 mm
400, 500, 800, 900 or 1000 mm
Kitchens



Total installation heights for kitchen channels

BLÜCHER® Channel

Kitchen channels - Total installation heights (minimum and maximum)

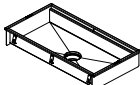
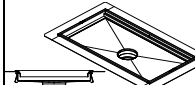
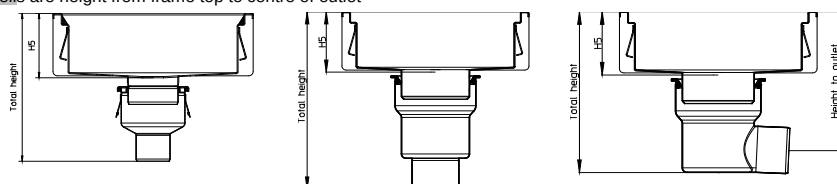
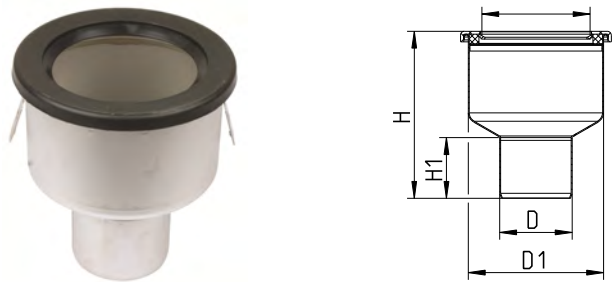
		Kitchen Channels										
		Type 660			Type 662			Type 664			Type 668	
												
Lower parts		H5 = 60	H5 = 110	H5 = 150	H5 = 60	H5 = 110	H5 = 150	H5 = 60	H5 = 110	H5 = 150	94 ≤ H5 ≤ 112	
Channel outlet	Ø110mm		163-208	213-258	253-298	163-208	213-258	253-298	163-208	213-258	253-298	---
			130-175	180-225	220-265	130-175	180-225	220-265	130-175	180-225	220-265	
			163-208	213-258	253-298	163-208	213-258	253-298	163-208	213-258	253-298	---
			118-163	168-213	208-253	118-163	168-213	208-253	118-163	168-213	208-253	
			184-229	234-279	274-319	184-229	234-279	274-319	184-229	234-279	274-319	---
			131-176	181-226	221-266	131-176	181-226	221-266	131-176	181-226	221-266	
	Ø160mm		237-282	287-332	327-372	237-282	287-332	327-372	237-282	287-332	327-372	---
			233-278	283-328	323-368	233-278	283-328	323-368	233-278	283-328	323-368	---
			201-246	251-296	291-336	201-246	251-296	291-336	201-246	251-296	291-336	---
			332-392	382-442	422-482	332-392	382-442	422-482	332-392	382-442	422-482	366-444
			343-403	393-453	433-493	343-403	393-453	433-493	343-403	393-453	433-493	377-455
			282-342	332-392	372-432	282-342	332-392	372-432	282-342	332-392	372-432	316-394
			249-309	299-359	339-399	249-309	299-359	339-399	249-309	299-359	339-399	283-361
			282-342	332-392	372-432	282-342	332-392	372-432	282-342	332-392	372-432	316-394
			230-290	280-340	320-380	230-290	280-340	320-380	230-290	280-340	320-380	264-342
			243-283	293-333	333-373	243-283	293-333	333-373	243-283	293-333	333-373	277-335
			191-231	241-281	281-321	191-231	241-281	281-321	191-231	241-281	281-321	225-283
			330-370	380-420	420-460	330-370	380-420	420-460	330-370	380-420	420-460	368-426
			332-392	382-442	422-482	332-392	382-442	422-482	332-392	382-442	422-482	366-444
			343-403	393-453	433-493	343-403	393-453	433-493	343-403	393-453	433-493	377-455
			282-342	332-392	372-432	282-342	332-392	372-432	282-342	332-392	372-432	316-394
			249-309	299-359	339-399	249-309	299-359	339-399	249-309	299-359	339-399	283-361
			282-342	332-392	372-432	282-342	332-392	372-432	282-342	332-392	372-432	316-394
			230-290	280-340	320-380	230-290	280-340	320-380	230-290	280-340	320-380	264-342
	332-392	382-442	422-482	332-392	382-442	422-482	332-392	382-442	422-482	366-444		
	343-403	393-453	433-493	343-403	393-453	433-493	343-403	393-453	433-493	377-455		
	282-342	332-392	372-432	282-342	332-392	372-432	282-342	332-392	372-432	316-394		
	249-309	299-359	339-399	249-309	299-359	339-399	249-309	299-359	339-399	283-361		
	282-342	332-392	372-432	282-342	332-392	372-432	282-342	332-392	372-432	316-394		
	230-290	280-340	320-380	230-290	280-340	320-380	230-290	280-340	320-380	264-342		

Table shows total installation heights from frame top to lowest point on lower part
Dimensions in gray cells are height from frame top to centre of outlet



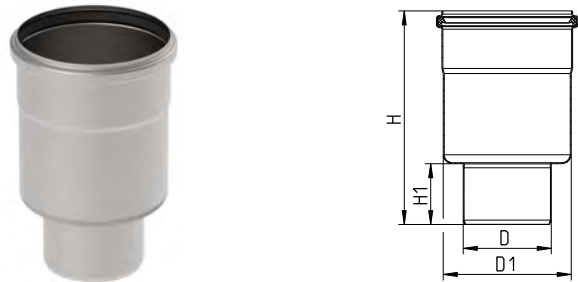
without membrane flange

LOWER PART FOR CHANNEL AND KITCHEN CHANNEL TYPE 150



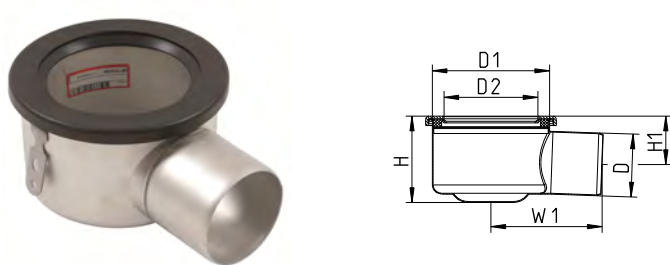
Type no.	EAN no.	D	D1	H	H1	D2
150.000.075	5705499107074	75	140	173	63	113
150.000.110	5705499107098	110	140	141	79	113

LOWER PART FOR CHANNEL AND KITCHEN CHANNEL TYPE 760.16



Type no.	EAN no.	D	D1	H	H1
760.160.075	5705499138016	75	160	256	65
760.160.110	5705499135343	110	160	267	76

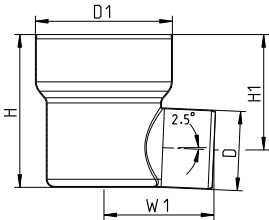
LOWER PART FOR CHANNEL AND KITCHEN CHANNEL TYPE 110



Type no.	EAN no.	D	D1	H	H1	W1	D2
110.000.075	5705499107036	75	140	103	58	133	113
110.000.110	5705499129403	110	140	124	71	143	113

without membrane flange

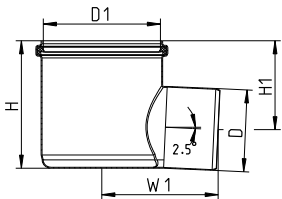
LOWER PART FOR CHANNEL AND KITCHEN CHANNEL TYPE 763.00



Type no.	EAN no.	D	D1	H	H1	W1
763.002.075	5705499109825	75	190	212	179	250
763.002.110	5705499109849	110	190	212	160	153

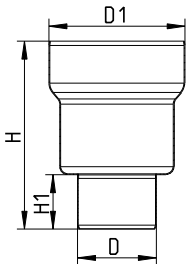
Sealing ring included with the upper part.
Drains with outlet other than D=110mm come fitted with adaptor.

LOWER PART FOR CHANNEL AND KITCHEN CHANNEL, LOW MODEL TYPE 763.042



Type no.	EAN no.	D	D1	H	H1	W1
763.042.110	5705499131925	110	160	171	119	156

LOWER PART FOR CHANNEL AND KITCHEN CHANNEL TYPE 760.00

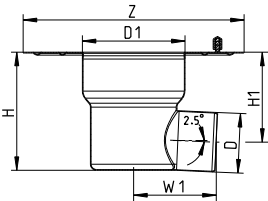


Type no.	EAN no.	D	D1	H	H1
760.002.075	5705499109269	75	190	267	65
760.002.110	5705499109283	110	190	278	76

Sealing ring included with the upper part.

with liquid membrane flange

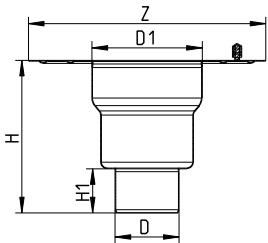
LOWER PART FOR CHANNEL AND KITCHEN CHANNEL TYPE 769.00



Type no.	EAN no.	D	D1	Z	H	H1	W1
769.002.075	5705499110869	75	190	Ø409	218	186	250
769.002.110	5705499110883	110	190	Ø409	218	166	153

Sealing ring included with the upper part.
Drains with outlet other than D=110mm come fitted with adaptor.

LOWER PART FOR CHANNEL AND KITCHEN CHANNEL TYPE 774.00

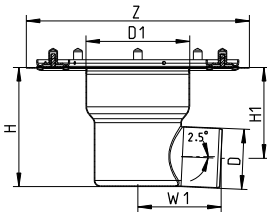


Type no.	EAN no.	D	D1	Z	H	H1
774.002.075	5705499111903	75	190	409	267	65
774.002.110	5705499111927	110	190	409	278	76

Sealing ring included with the upper part.

with sheet membrane flange

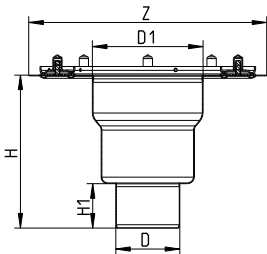
LOWER PART FOR CHANNEL AND KITCHEN CHANNEL TYPE 771.00



Type no.	EAN no.	D	D1	Z	H	H1	W1
771.002.075	5705499111224	75	190	Ø409	218	186	250
771.002.110	5705499111248	110	190	Ø409	218	166	153

Sealing ring included with the upper part. Drains with outlet other than D=110mm come fitted with adaptor.

LOWER PART FOR CHANNEL AND KITCHEN CHANNEL TYPE 775.00



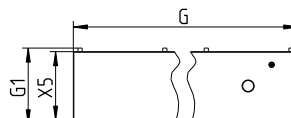
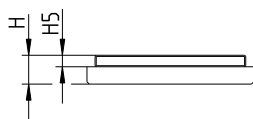
Type no.	EAN no.	D	D1	Z	H	H1
775.002.075	5705499112573	75	190	409	267	65
775.002.110	5705499112597	110	190	409	278	76

Sealing ring included with the upper part.

All dimensions in mm - Stainless Steel grade AISI 316L specify type no. with suffix S

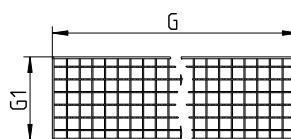
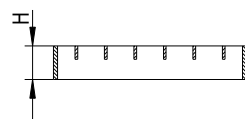
Gratings

SLOT GRATING CHANNEL



Type no.	EAN no.	Name	G	G1	H	H5	X5	EN1253 (kg)	EN1433 (kg)	Non slip
697.200.150.49	5705499124552	150x500	499	145	25	10	131	M125 (14.000)	A15 (3.000)	R10
697.200.150.99	5705499115499	150x1000	998	145	25	10	131	M125 (14.000)	A15 (3.000)	R10
697.200.200.50	5705499126884	200x500	499	195	25	10	181	N250 (20.000)	A15 (3.500)	R10
697.200.200.99	5705499115529	200x1000	998	195	25	10	181	N250 (20.000)	A15 (3.500)	R10
697.200.300.50	5705499131598	300x500	499	295	25	10	281	M125 (13.000)	A15 (3.500)	R10
697.200.300.99	5705499131604	300x1000	998	295	25	10	281	M125 (13.000)	A15 (3.500)	R10

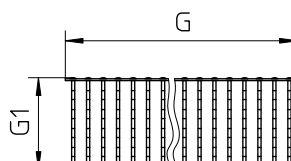
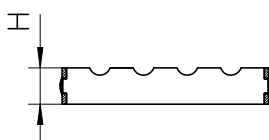
MESH GRATING CHANNEL



Type no.	EAN no.	Name	G	G1	H	EN1253 (kg)	EN1433 (kg)	Non slip
696.223.144.49	5705499124415	150x500	499	144	25		A15 (1.800)	R12
696.223.144.99	5705499124439	150x1000	998	144	25	R50 (3.500)	A15 (1.800)	R12
696.223.194.49	5705499124477	200x500	499	194	25		A15 (1.350)	R12
696.223.194.99	5705499124491	200x1000	998	194	25	R50 (4.000)	A15 (1.350)	R12
696.223.294.49	5705499131505	300x500	499	294	25		A15 (1.350)	R12
696.223.294.99	5705499131512	300x1000	998	294	25	L15 (2.000)	A15 (1.350)	R12
696.223.394.49	5705499131529	400x500	499	394	25		A15 (1.350)	R12
696.223.394.99	5705499131536	400x1000	998	394	25		A15 (1.350)	R12

LADDER GRATING CHANNEL

25 MM HEIGHT

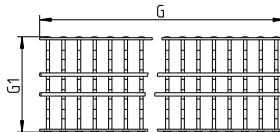
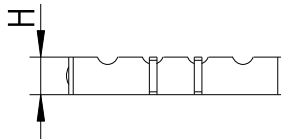


Type no.	EAN no.	Name	G	G1	H	EN1253 (kg)	EN1433 (kg)	Non slip
697.125.150.50	5705499103465	150x500	499	145	25	M125 (10.000)	A15 (5.000)	R11
697.125.200.50	5705499103502	200x500	499	195	25	R50 (7.000)	A15 (7.000)	R11
697.125.300.50	5705499103540	300x500	499	295	25	R50 (6.000)	A15 (7.000)	R11
697.125.400.50	5705499131574	400x500	499	395	25		A15 (7.000)	R11

Gratings

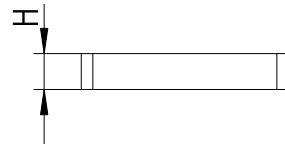
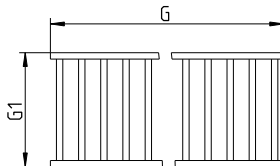
LADDER GRATING CHANNEL, NON-TILT

25 MM HEIGHT

								
Type no.	EAN no.	Name	G	G1	H	EN1253 (kg)	EN1433 (kg)	Non slip
697.127.150.50	5705499128727	150x500	499	145	25	M125 (11.000)	A15 (5.000)	R11
697.127.200.50	5705499128734	200x500	499	195	25	M125 (8.333)	A15 (7.000)	R11

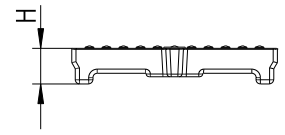
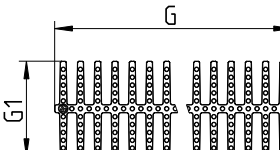
LADDER GRATING CHANNEL

8 MM MATERIAL, FULLY WELDED


Type no.	EAN no.	Name	G	G1	H	EN1253 (kg)	EN1433 (kg)	Non slip
697.225.150.50	5705499128642	150x500	499	144	25	N250 (20.000)	E600 (40.000)	R11
697.225.200.50	5705499128659	200x500	499	194	25	N250 (20.000)	B125 (10.000)	R11
697.225.300.50	5705499128666	300x500	499	294	25	N250 (16.666)	B125 (12.000)	R11
697.225.400.50	5705499128673	400x500	499	394	25		B125 (12.000)	R11

HYGIENICPRO GRATING CHANNEL

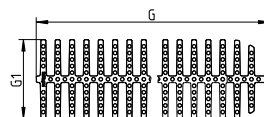

Type no.	EAN no.	Name	G	G1	H	EN1253 (kg)	EN1433 (kg)	Non slip
697.250.150.50	5705499117868	150x500	499	145	25	M125 (10.000)	A15 (6.000)	R10
697.250.200.50	5705499117967	200x500	499	195	25	M125 (10.000)	A15 (7.000)	R10
697.250.300.50	5705499133103	300x500	499	295	40	N250 (20.000)		R10

Only available in stainless steel grade AISI CF-8 corresponding to AISI 304C/EN1.4308

Gratings

HYGIENICPRO GRATING CHANNEL

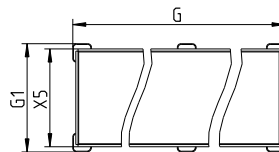
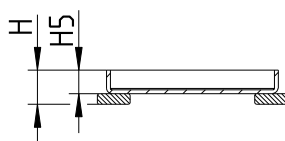
ROUNDED IN ONE END



Type no.	EAN no.	Name	G	G1	H	EN1253 (kg)	EN1433 (kg)	Non slip
697.250.150.57	5705499137910	150x500	572	145	25	M125 (10.000)	A15 (6.000)	R10

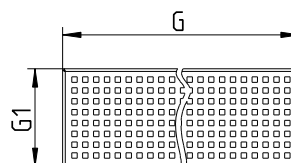
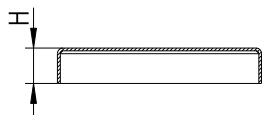
Only available in stainless steel grade AISI CF-8 corresponding to AISI 304C/EN1.4308

TILED/EPOXY GRATING CHANNEL



Type no.	EAN no.	Name	G	G1	H	H5	X5	EN1253 (kg)
697.020.150.49	5705499128574	150x500	499	145	26	18	131	K3 (900)
697.020.200.49	5705499128581	200x500	499	195	26	18	181	L15 (1.800)
697.020.300.49	5705499128598	300x500	499	295	26	18	281	K3 (600)

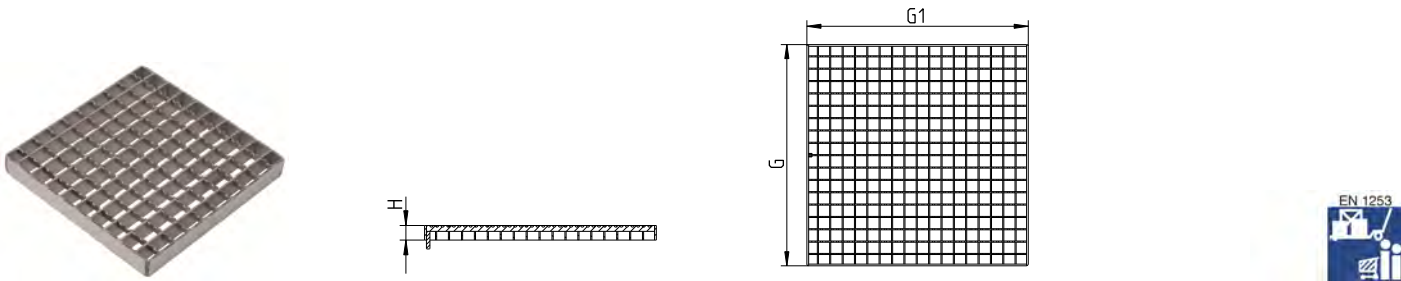
SHOWER GRATING CHANNEL



Type no.	EAN no.	Name	G	G1	H	EN1253 (kg)	Non slip
697.015.150.50	5705499103182	150x500	499	144	25	K3 (500)	R10
697.015.150.99	5705499117394	150x1000	998	144	25	K3 (500)	R10
697.015.200.50	5705499117424	200x500	499	194	25	K3 (400)	R10
697.015.200.99	5705499124538	200x1000	998	194	25	K3 (400)	R10

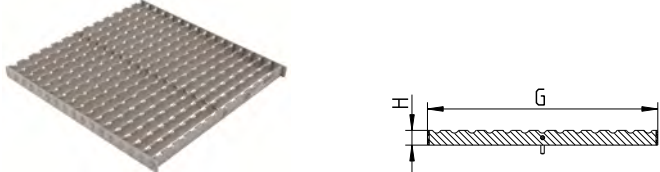
Gratings

MESH GRATING SQUARE



Type no.	EAN no.	Name	G	G1	H	EN1253 (kg)	Non slip
696.223.394.395	5705499117356	400x400	394x394		25	L15 (1.500)	R12
696.223.394.595	5705499126846	400x600	394	594	25	L15 (1.500)	R12
696.223.494.495	5705499117363	500x500	494x494		25	L15 (1.500)	R12
696.223.494.795	5705499126853	500x800	494	794	25	L15 (1.500)	R12
696.223.594.895	5705499126860	600x900	594	894	25	L15 (1.000)	R12

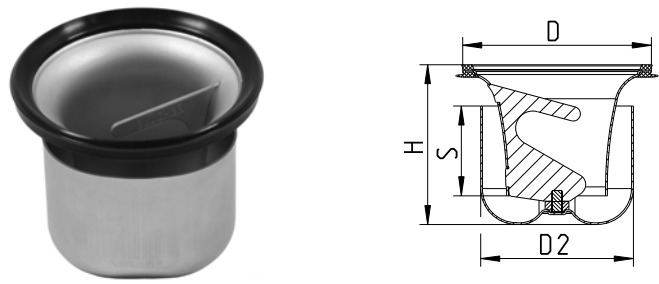
LADDER GRATING SQUARE



Type no.	EAN no.	Name	G	H	Non slip
697.125.400.395	5705499117752	400x400	395x395	25	R11
697.125.500.495	5705499117769	500x500	495x495	25	R11

Water traps

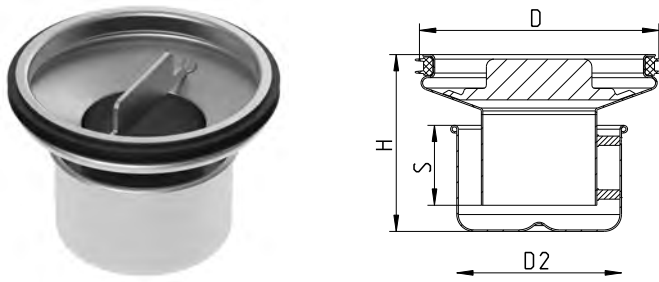
REMOVABLE TWO-PART WATER TRAP TYPE 502.050



Type no.	EAN no.	D	H	S	D2	Max Flow (l/s)
502.050.110	5705499124064	108	89	50	85	1.7

Accurate flow rate depending on type of channel and grating.

REMOVABLE WATER TRAP TYPE 562.00



Type no.	EAN no.	D	H	S	D2	Max Flow (l/s)
562.002.000 S	5705499107968	157	115	52	107	3.3

Accurate flow rate depending on type of channel and grating.

REMOVABLE TWO-PART WATER TRAP TYPE 562.10



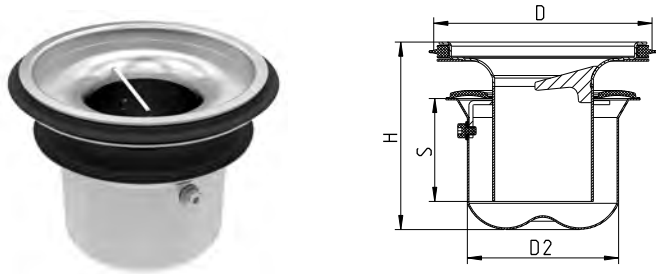
Type no.	EAN no.	D	H	S	D2	Min Flow (l/s)	Max Flow (l/s)
562.102.000 S	5705499137903	157	113	50	120	3.4	6.0
562.103.000 S	5705499138733	246	118	52	197	5.6	7.8

Accurate flow rate depending on type of channel and grating.

Water traps

REMOVABLE WATER TRAP TYPE 503.001

PREVENTS SMELL

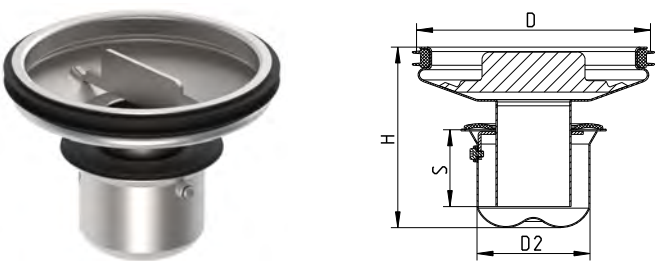


Type no.	EAN no.	D	H	S	D2	Max Flow (l/s)
503.001.110	5705499134728	108	93	51	75	1.3

Accurate flow rate depending on type of channel and grating.

REMOVABLE WATER TRAP TYPE 563.00

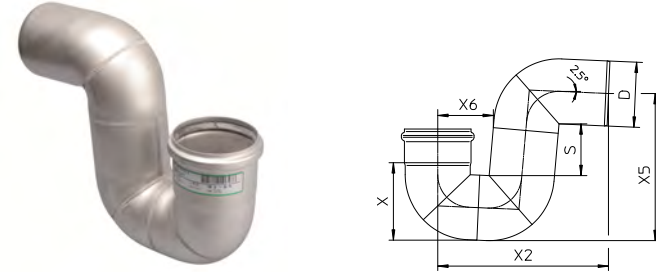
PREVENTS SMELL



Type no.	EAN no.	D	H	S	D2	Max Flow (l/s)
563.002.000	5705499135275	157	120	51	75	1.3

Accurate flow rate depending on type of channel and grating.

P-TRAP 87.5° TYPE 525.090

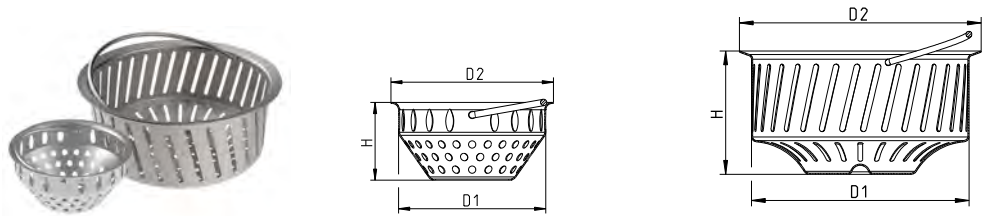


Type no.	EAN no.	D	S	X	X2	X5	X6	Min Flow (l/s)	Max Flow (l/s)
525.090.075 S	5705499101478	75	81	93	222	189	74	2.5	3.7
525.090.110 S	5705499101485	110	89	132	289	249	94	3.4	10.4
525.090.160 S	5705499101492	160	105	187	388	338	121	7.5	28.5

Accurate flow rate depending on type of channel and grating.

Others

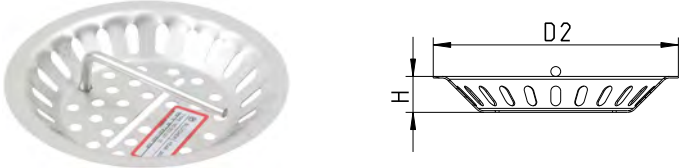
FILTER BASKET TYPE 780



Type no.	EAN no.	D1	H	D2	Volume (l)
780.002.000.05	5705499113358	140	74	155	0.9
780.004.020.05	5705499137941	220	125	245	3.9

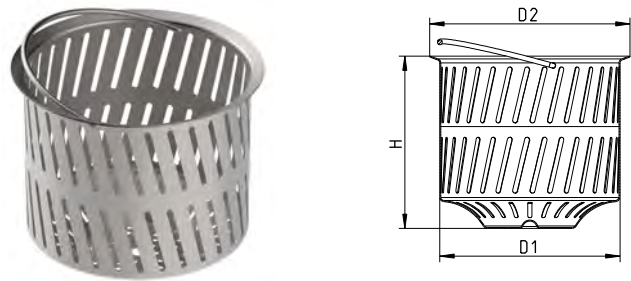
If the drain is to be fitted with both filter basket and water trap, make sure that the height of the drain is sufficient.

FILTER BASKET, LOW MODEL TYPE 780



Type no.	EAN no.	H	D2	Volume (l)
780.002.001.05	5705499113372	22	150	0.2
780.004.010.05	5705499137934	41	245	0.8

FILTER BASKET, HIGH MODEL TYPE 780

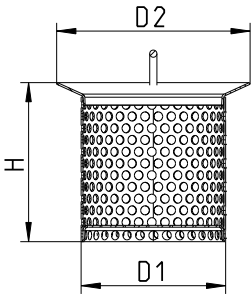


Type no.	EAN no.	D1	H	D2	Volume (l)
780.004.030.05	5705499137958	220	210	245	7.1

If the drain is to be fitted with both filter basket and water trap, make sure that the height of the drain is sufficient.

Others

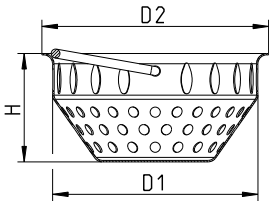
FILTER BASKET TYPE 780



Type no.	EAN no.	D1	H	D2
780.107.110.05 S	5705499104486	80	88	107

Only for use in drains without removable water trap

FILTER BASKET, WIHOUT BOTTOM SLOT TYPE 780

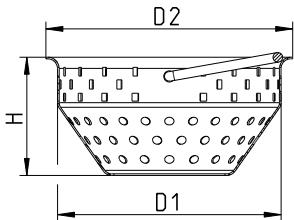


Type no.	EAN no.	D1	H	D2
780.002.004.05	5705499128499	140	74	155

If the drain is to be fitted with both filter basket and water trap, make sure that the height of the drain is sufficient.

FILTER BASKET TYPE 780

WITH 6 MM HOLES

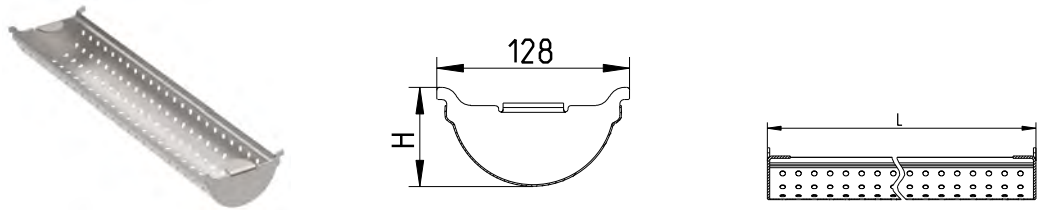


Type no.	EAN no.	D1	H	D2
780.002.003.05	5705499119909	140	74	155

If the drain is to be fitted with both filter basket and water trap, make sure that the height of the drain is sufficient.

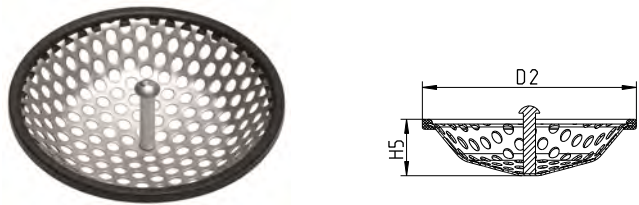
Others

HYGIENICPRO FILTER FOR CHANNEL TYPE 780



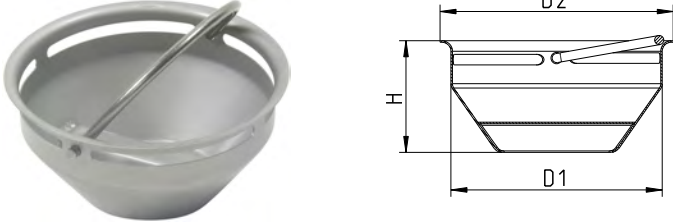
Type no.	EAN no.	H	L
780.005.150.05	5705499137927	66	499

FILTER BASKET FOR TWO-PART WATER TRAP



Type no.	EAN no.	H5	D2
502.000.000 S	5705499124101	24	106

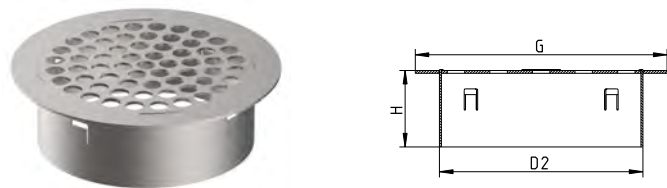
SAND BUCKET TYPE 780



Type no.	EAN no.	D1	H	D2
780.002.000.00	5705499113334	140	74	155
780.004.020.00	5705499138764	220	125	245

If the drain is to be fitted with both sand bucket and water trap, make sure that the height of the drain is sufficient.

OUTLET FILTER
FOR CHANNELS WITH VERTICAL OUTLET



Type no.	EAN no.	G	H	D2
780.400.075.05	5705499135305	Ø95	40	70
780.400.110.05	5705499135251	Ø130	40	105
780.400.160.05	5705499135480	Ø180	40	155

Others

PLUG FOR CHANNEL AND KITCHEN CHANNEL



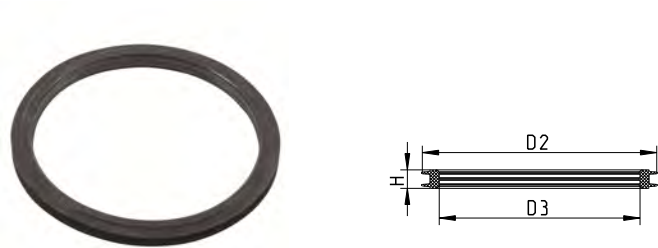
Type no.	EAN no.	H	D2
620.300.019 S	5705499118568	23	108
700.000.004 S	5705499118575	36	157
700.000.250 S	5705499138818	27	246

SEALING RING FOR WATER TRAP TYPE 502.050.110



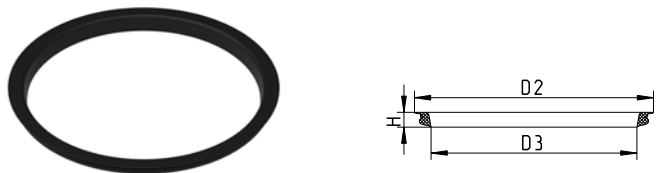
Type no.	EAN no.	H	D2	D3	Material
620.300.042	5705499127331	7	102	87	EPDM
620.300.042 N	5705499138993	7	102	87	NBR

SEALING RING FOR WATER TRAP TYPE 562.00



Type no.	EAN no.	H	D2	D3	Material
562.002.EPDM	5705499108002	12	154	131	EPDM
562.003.EPDM	5705499108071	12	249	225	EPDM

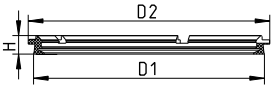
SEALING RING FOR WATER TRAP TYPE 562.10



Type no.	EAN no.	H	D2	D3	Material
562.103.EPDM	5705499138740	16	260	223	EPDM
562.103.NBR	5705499138757	16	260	223	NBR

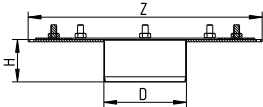
Others

SEALING RING FOR LOWER PART



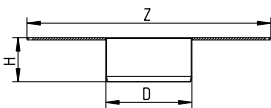
Type no.	EAN no.	Designation	D1	H	D2 Material
700.002.EPDM	5705499108101	Fits all lower parts type XXX.002.XXX	189	22	208 EPDM
700.003.EPDM	5705499108118	Fits all lower parts type XXX.003.XXX	275	22	287 EPDM

MEMBRANE CLAMPING FLANGE FOR LOWER PART TYPE 325



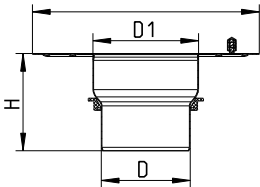
Type no.	EAN no.	D	Z	H
325.302.000	5705499107920	113	Ø320	58

FLANGE FOR LOWER PART TYPE 326



Type no.	EAN no.	D	Z	H
326.302.000	5705499107944	113	Ø320	58

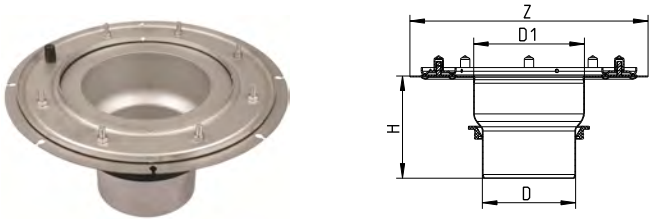
INTERMEDIATE SECTION WITH MEMBRANE FLANGE TYPE 777



Type no.	EAN no.	D	D1	Z	H
777.002.000	5705499112931	160	190	Ø409	190
777.003.000	5705499112955	250	272	Ø507	196

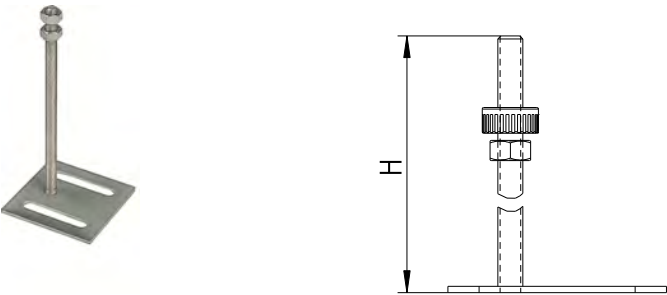
Others

INTERMEDIATE SECTION WITH CLAMPING FLANGE TYPE 779



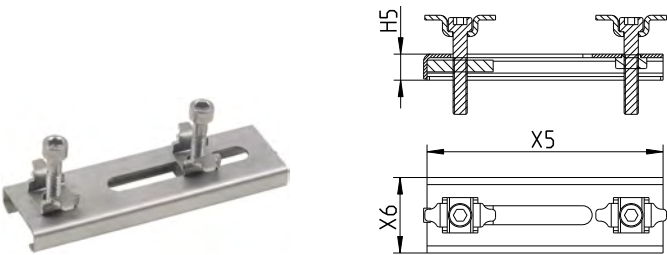
Type no.	EAN no.	D	D1	Z	H
779.002.000	5705499113136	160	190	Ø409	190
779.003.000	5705499113150	250	272	Ø507	196

ADJUSTABLE LEGS



Type no.	EAN no.	H
670.000.001	5705499116243	150
670.000.005	5705499131741	300

GRATING LOCK

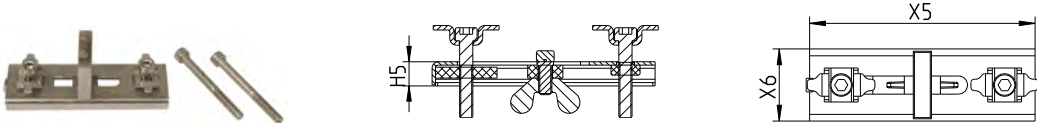


Type no.	EAN no.	H5	X5	X6
670.000.003 S	5705499120493	11	100	32

For gratings with height max 25mm.
Used for locking the grating / grating combination.

Others

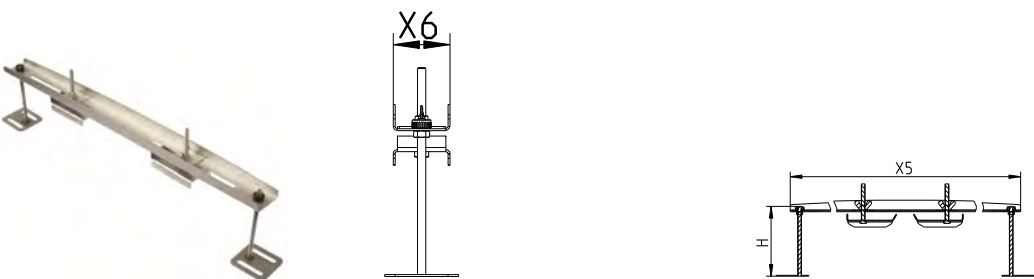
GRATING LOCK



Type no.	EAN no.	H5	X5	X6
670.000.004 S	5705499128512	11	100	32

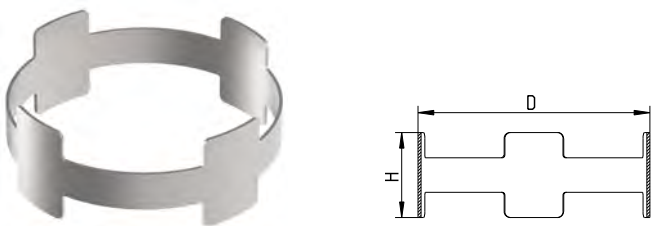
Used for locking the grating / cross-bar / grating combination.

MOUNTING BRACKET FOR CHANNELS



Type no.	EAN no.	H	X5	X6
670.000.000	5705499129342	150	680	54

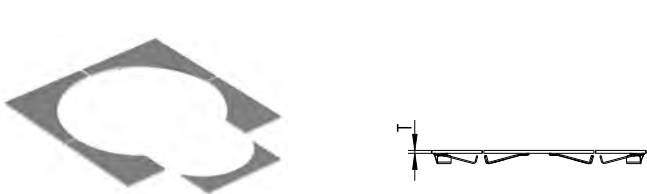
HYGIENICPRO SPACING RING FOR FILTER BASKET



Type no.	EAN no.	D	H
670.000.010	5705499137972	155	57

For medium or high filter basket used together with a P-trap.

HYGIENICPRO TILE ADAPTOR FOR CHANNEL

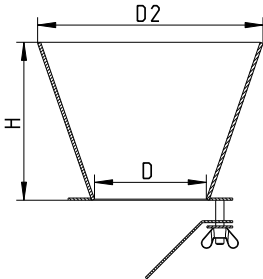


Type no.	EAN no.	Designation.	F	F1	D2	T
670.000.020	5705499137989	End outlet	375	192	325	5
670.000.021	5705499137996	Center outlet	375	192	325	5

For channels mounted in the tiles.

Others

TUNDISH FOR GRATING



Type no.	EAN no.	D	H	D2
670.005.000	5705499137965	109	153	219

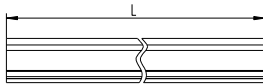
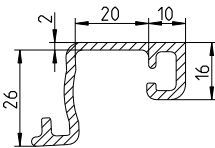
HYGIENIC CLEAN



Type no.	EAN no.
800.000.150	5705499138863

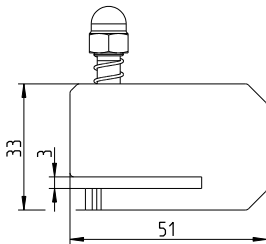
For cleaning of HygienicPro channels.

FRAME GUARD
FOR CHANNELS



Type no.	EAN no.	L
670.000.006	5705499138542	2000

VINYL HOLE PUNCHING TOOL



Type no.	EAN no.
001.200.002	5705499128239

Standard variants and options

For all channel types a range of variants and options as described below can be specified:

Variants



A: Stabilizer angle



B: Anchor tangs

Stabilizer angle and anchor tangs can be fitted with adjustable legs (type no. 670.000.001) to be able to adjust the position of the channel before embedding in concrete.

Anchoring the channel firmly into the concrete is particularly important for channels that will be exposed to heavy weight loads and large temperature variations.

Stabilizer angle (variant A) is point welded to the channel, thus supporting the channel and creating a bond between channel and concrete in the entire length of the channel. Adjustable legs and anchor tangs can be fitted in the stabilizer angle. The stabilizer angle is recommended for all applications with heavy weight load.

Anchor tangs (variant B) are welded to the channel side at 500 mm distance. Before embedding the channel in concrete, the anchor tangs are bent out. Adjustable legs can be fitted into the holes of the anchor tangs. Anchor tangs are suitable for applications without high weight loads or thermal stress, for instance in shower rooms or light industrial applications.

Options



B: Edge infill



C: Protective strip

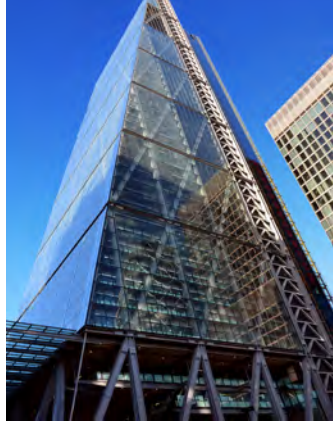
Edge infill (option B) – For optimum channel strength it is important that the channel is properly embedded in concrete. This is particularly necessary with regards to the underside of the channel edge profile. Whilst this can be filled on site it is also possible to have the filling carried out under factory conditions as part of the production process.

In addition to providing greater rigidity to the channel, the edge infill also eliminates voids and any potential for bacterial growth.

Protective strip (option C) The edge profile can be supplied with a protective strip which adheres lightly and is easily removed. This is to protect the edge profile during installation leaving a perfect visible edge once the installation is complete.

Option A designates no edge infill or protective strip, and Option D designates edge infill and protective strip combined.

BLÜCHER offers custom-made channels for all applications. Our team of technical engineers holds over 50 years of know-how and experience in designing channels. For more information please contact our technical sales department.



Selected references

Tall buildings, food and beverage industry , hospitals, prisons, sport and leisure and the pharmaceutical industry are among the customers that benefit from BLÜCHER stainless steel drainage systems.

Commercial

Hope Hospital, Queen Elizabeth University Hospital, The Sick Childrens Hospital, Princess Alexandra Hospital, St. James Hospital, University College London Hospital, Huddersfield Royal Infirmary, Fitness First, Bannatynes Leisure Centre, Rhyl Water Park, Alpamere Water Park, David Lloyd, Virgin Active, Hilton Hotels, McDonalds, Morrisons, Tesco, Lidl, Asda, Heathrow Airport Terminal 2 and Terminal 5 , Gatwick Airport, Manchester Airport Terminal 2, Dublin International, Liverpool Airport, HMP Berwyn, HMP Lyndhome, HMP Addiewell, HMP Forest Bank, York Racecourse, Ascot Racecourse, The Shard, Owen Street, Northern Line Extension, Blackfriars Station, London Bridge Station, Twickenham Station, New Street Station, Docklands Light Railway, CrossRail, Central St Giles Station, 22 Bishops Gate, Plaza Corner, 1 Hyde Park, Chelsea Barracks, Bridgewater Place, Trafford Centre, Golden Square Shopping Centre, Silverburn Shopping Centre, Leadenhall, Bullring, Galway Garda Regional HQ, Cannon Place, Manchester City Training Academy, Battersea Dogs Home, Southbank Place, Grosvenor House Apartments, Rathbone Square, Bloomberg Place, Smithfield Meat Market, The Francis Crick Building, First Direct Arena, Manchester City Football Stadium, Leeds University, Manchester University, Reading University.

Industrial

GSK, Astra Zeneca, Pfizer, Johnson & Johnson, Kraft, Nestlé, Kelloggs, Coca Cola Ireland, Heineken, Carlsberg, Wicklow Wolf Brewing, Nestlé, Arla Food, Kerry Group, Dawn Foods, PDM Produce, Unilever, Sam Smiths, Corrs, Britvic, BrewDog, Dew Valley Food, McCallan Distillery, Funnebrough, Baxter Foods, Mueller, Eli Lilly Ireland, Encirc, Gerber Foods, Hazelwood Foods, ABP, Kingsley Beverages, Tubzee Ice Cream, Mondeleze, South Hams Brewery, Purolite Llantrissant.

Housing

BLÜCHER® stainless steel floor drains and pipe system are used all over the World in Scandinavian-style wet bathrooms in single and multi-storey buildings.

Marine

RSS Sir David Attenborough, HMS Queen Elizabeth, HMS Prince of Wales, Freedom of the Seas, Liberty of the Seas, Color Magic, Pride of Hawaii, Galaxy, AIDA Diva, Celebrity Solstice. MY Platinum (Dubai Ports Authority), M/S Caravelle (Jade Yachts), Agbami Off Shore, Consafe-Aberdeen Oil Platform Bingo I & Bingo II Offshore Oil Rigs. Auxillary vessel (British Navy), 5 frigates (Norwegian Navy), 2 logistics vessels (Danish Navy), 2 survey vessels Dutch Navy.





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