



Nugreen Building Technologies Pvt. Ltd.



MEA



MEA
Drains



Bathroom &
Kitchen Drains

KESSEL



Waste Water
Lifting Station

KESSEL



Backwater
Protection

KESSEL



Oil & Grease
Separators

Specialized Fire Curtains



Fire Curtains



Fire
Curtains

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BUILDING DRAINAGE

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About Us

Nugreen Building Technologies Pvt. Ltd.

Founded in 2011 by Mr. Raman Kapur, Managing Director of Nugreen Building Technologies Pvt. Ltd., the company has emerged as a leader in innovative and sustainable building solutions.

Mr. Kapur is a civil engineer and a postgraduate from IIM Calcutta. With over 30 years of diverse experience across the SAARC region, he is a seasoned entrepreneurial executive known for his strategic vision and operational excellence. His proven ability to develop new markets from the ground up and scale them to a Pan-India level has been instrumental in Nugreen's growth.

Throughout his career, Mr. Kapur has held senior roles in sales, marketing, product development, and management in both Indian and multinational companies such as ICI Paints, Eternit Everest Ltd., Promat International, and Extex-Belgium. His industry expertise is unmatched, and his leadership continues to drive innovation at Nugreen.

In addition to his role at Nugreen, Mr. Kapur is the Managing Director of Kessel India and a co-founder of Swayam, an NGO dedicated to empowering the underprivileged through self-employment initiatives.

Nugreen takes pride in its joint ventures with **Kessel Germany** and its sister company, **Orient Fire Curtains**, and also serves as an authorized dealer for **MEA Germany**. These strategic partnerships enable us to deliver fast, reliable, and cost-effective solutions in **Plumbing, Drainage and Passive Fire Protection System** across India.

Our Expertise

Nugreen specializes in Wastewater treatment, lifting stations, and pre-fabricated drains, Stainless Steel Kitchen Drains catering to Surface Drainage Systems.

Products Portfolio

- Grease Separator
- Wastewater Lifting Stations
- Backwater protection
- Pre-fabricated Linear Drainage Systems
- Manhole Covers
- Floor & Kitchen Drains
- Bathroom Drains
- Lifestyle Products
- Fire Compartmentation

Our solutions are engineered to meet the demands of modern infrastructure, ensuring efficiency, reliability, and durability.

Orient Fire Curtains India Pvt. Ltd.

As a sister company of Nugreen, Orient Fire Curtains India Pvt. Ltd. has been at the forefront of fire compartmentation for over 12 years.

We specialize in advanced Fire and Smoke Curtains systems designed to safeguard lives and property during emergencies.

Our Product Portfolio

- Fire Curtains
- Fire Rated Doors
- Fire Glazed Screens and Doors
- Fire Barriers & Fire Sealant
- Rescue Chairs for Emergency Evacuation

Our solutions set the benchmark in passive fire safety technology, offering unmatched protection and peace of mind.

LANDSCAPE DRAINAGE





Drainage Systems MEA: Leading External Drainage Solutions for the Region

About us

MEA Group was founded in 1886 and headquartered in Bavaria, Germany, with more than 130 years history. It has business operations all over the world, with products exporting to more than 100 countries and regions including Southeast Asia, Australia and Europe.

In the field of outdoor and indoor drainage system, MEA provides comprehensive one-stop solutions with the highest standards of safety, function, efficiency and durability, specializing in urban public buildings, commercial buildings, municipal transportation (municipal roads, city trams), parking lots, automobile projects.



Hong Kong-Zhuhai-Macao Bridge



Shanghai Disneyland



Beijing APEC Conference Center

MEA Group has more than 15 years of market experience in the domestic and International Pacific markets, we are committed to providing professional, diversified intelligent and systematic drainage solutions for various fields.



MEA Topslot drainage
MEA SUS grate drainage
MEA Parking drainage



MEA Heavy load ductile
iron drainage
MEA Artist grate drainage



MEA Monolithic drainage
MEA Kerb drainage
MEA Bridge drainage

MEA® TOPSLOT



Middle TOPSLOT



Double Slot TOPSLOT



Side TOPSLOT

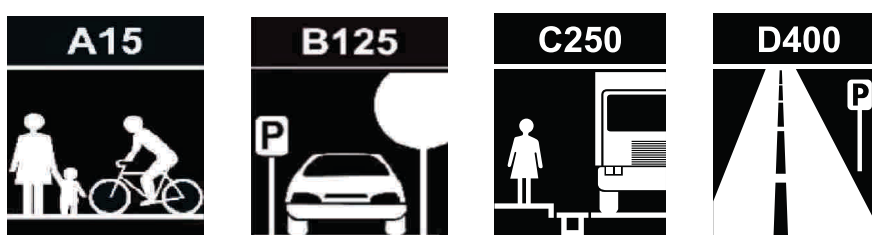


MEA* Topslot Drainage system have excellent drainage and self-cleaning capacity. It can match with different pavement to from nearly and unified landscape effect. The loading class of system can up to class D400.

Application

City Square	Pedestrian Area	Sunken Plaza
Around the curtain wall	Landscape Area	School Hospital Community etc.

Loading class



Model	Inner width (mm)	Outer width (mm)	Height (mm)	Length (mm)	Discharge Section Area Cm2	Loading Class
TS 1000.0	100	140	130	1000	1000	A15-D400
TS 1010.0	100	140	180	1000	1000	A15-D400
TS 1020.0	100	140	230	1000	1000	A15-D400
TS 1030.0	100	140	280	1000	1000	A15-D400
TS 1500.0	150	190	200	1000	1000	A15-D400
TS 1520.0	150	190	300	1000	1000	A15-D400
TS 2000.0	200	240	260	1000	1000	A15-D400
TS 2010.0	200	240	310	1000	1000	A15-D400
TS 2020.0	200	240	360	1000	1000	A15-D400
TS 3000.0	300	370	370	1000	1000	A15-D400
TS 3020.0	300	370	470	1000	1000	A15-D400





MEA® DRAIN PARKING



An important, but often neglected aspect in the planning of 'indoor' projects such as multi-storey car parks, underground car parks and industrial halls is the issue of drainage. With the intelligently-designed MEAD RAIN® Solution PG channel system, MEA is the first manufacturer to offer an innovative complete solution that addresses these special needs. The result: an entirely compelling drainage solution.

Product Advantage

- / Patent-applied-for comb profile
- / 50mm 30 mm construction heights
- / No grating or moveable parts
- / Loading classes up to [250 Sealable according to EN 1433
- / Comb system doubles as a guidance aid and ground surface indicator for the visually impaired
- / Monolithic structural element - formed entirely of polymer concrete

Loading Class

A15	B125	C250
		



Safe and durable



Easy to clean



Accessibility



Mute



Tightness



Easy to install



Does not rust

Model	Outer width (mm)	Height (mm)	Comb width (mm)	Length (mm)	Loading Class	Material
PG1500.0/30	150	30	14	1000	A15-C250	Polymer Concrete
PG1500.0	150	50	18	1000	A15-C250	Polymer Concrete
PG3000.0	300	50	18	1000	A15-C250	Polymer Concrete



MEA[®] DESIGN GRATINGS



MEA DESIGN GRATINGS

MEA Design Gratings Offers a wide product range with trendy design gratings. Stylish, aesthetically appealing and highly robust, these are just a few of this artistic product's distinctive characteristics to comply with the drainage requirements as well as the landscape style requirement. It can suitable for a variety of urban scenarios.

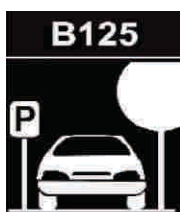
PRODUCT ADVANTAGE

- Various classic patterns for choice
- ADA (American Disability Act) compliant
- Environmental friendly and design to be wheelchair and disability friendly
- Naturally rust or KTL antirust coating

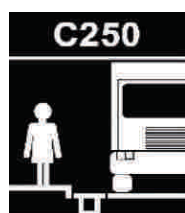
Loading class



Pedestrians / Cyclists



Car parking



Heavy goods vehicles /
Roadsides / Verges



Carriageways /
highways / roads



E600 Industrial



F900 Airports



Sunset Grating



Locust Grating



Wave Grating



Janist Grating



Anise Grating



Regular Joe Grating

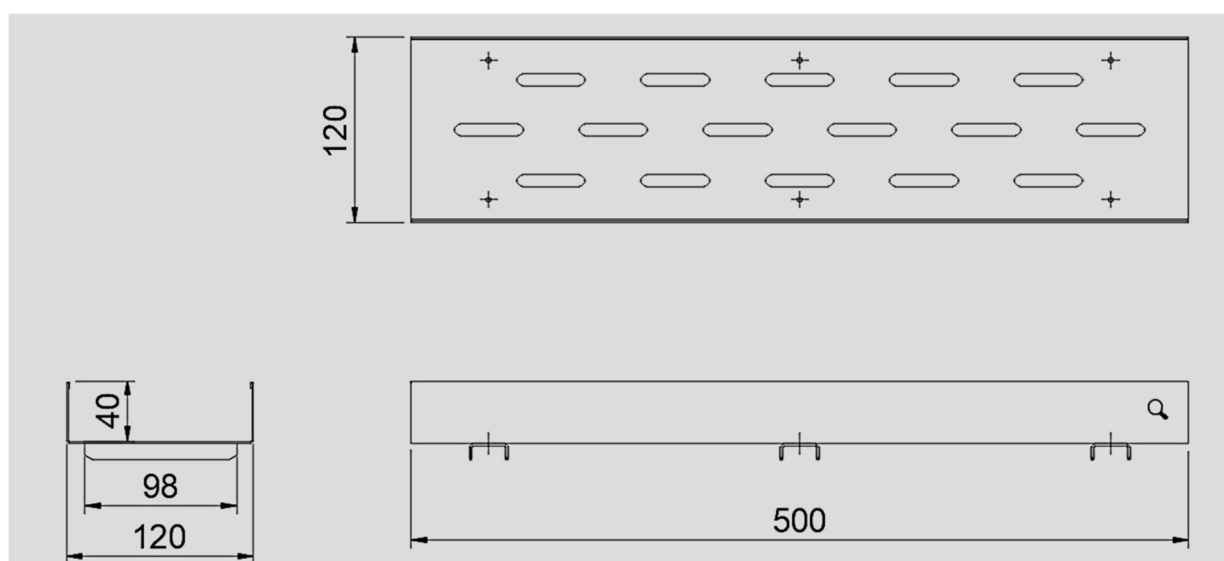
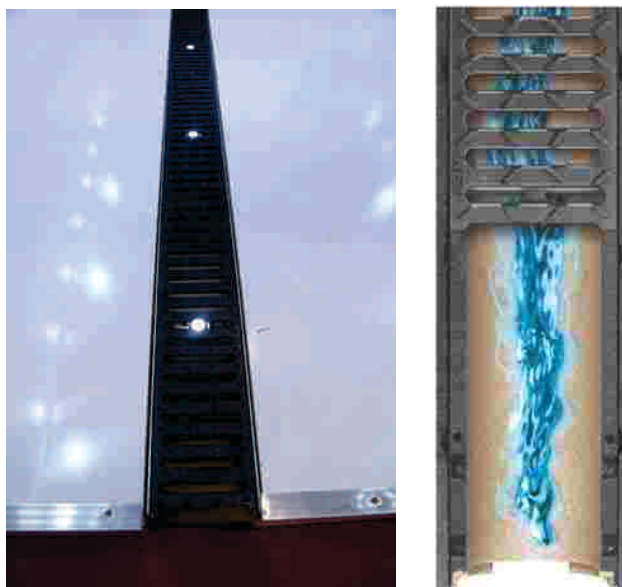


Argo Grating



Oblio Grating

MEA DI SPOT LIGHT DRAINAGE



MEA PEBBLE DRAINAGE



MEAGARD II

HIGH QUALITY,
STABLE AND VERSATILE

DRAINAGE SOLUTION FOR HOME AND GARDEN

DRAINAGE CHANNEL BODY MADE OF HIGH
QUALITY POLYMER CONCRETE



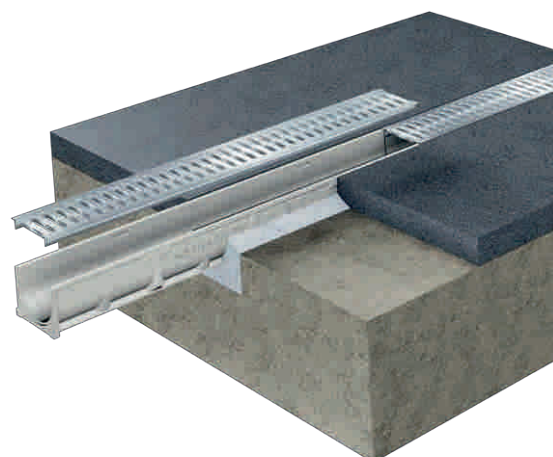
MEAGARD II

PERFORMANCE WITHOUT
COMPROMISE

MEAGARD II MADE OF POLYMER CONCRETE

The channel system MEAGARD II made of high-quality polymer concrete is ideal for use around the house and garden. MEAGARD II is extremely robust, resistant to frost and weatherproof. The polymer concrete channel body consists of 90% of mineral components and is therefore environmentally friendly and recyclable. MEAGARD II is also available with an integrated outlet for a faster and safer connection to the WASTEWATER system. A wide range of edge-covering gratings as well as an extensive range of accessories round off the portfolio.

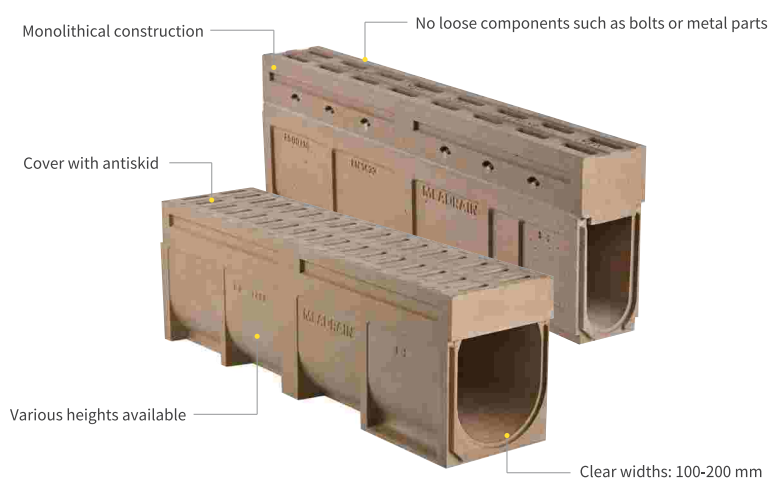
- > For home and garden applications
- > Loading class up to B 125
- > With edge-covering gratings



MEA[®] Traffic D/DM Polymer Concrete Drainage System

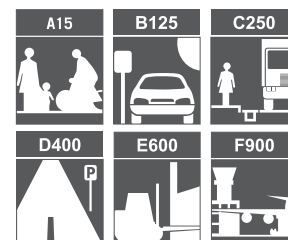
The monolithic MEADRAIN D / DM drainage channels made of polymer concrete are the perfect solution for applications where moving individual components could pose a potential risk (e.g. racetracks, motorways).

The MEADRAIN D / DM channels have no movable part and have a monolithic sturdy design. Easy to install and to maintain the MEADRAIN DM channels are also vandalism proof.

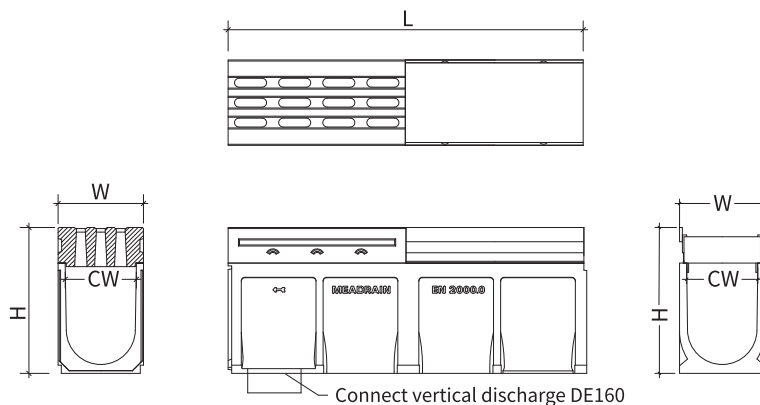
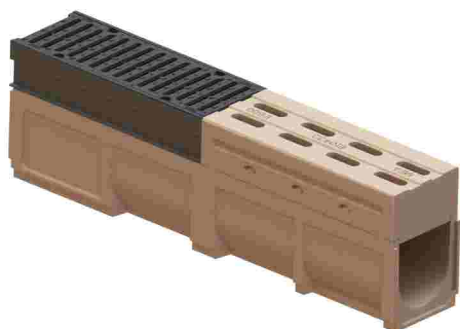


Product characteristics

- > Loading class from A 15 to F900
- > Monolithic construction for maximal stability
- > 100% traffic safe: no loose components such as bolts or metal parts
- > Level channel body, U-shaped drainage section
- > Channel bodies with sealable groove according to En1433



D2000 SYSTEM ACCESSORIES - INSPECTION CHANNEL



Model	Clear Width CW (mm)	Total Width W (mm)	Total Height H (mm)	Length L (mm)	Loading Class EN1433
D2000.0 E600 340 Inspection Channel	200	240	340	1000	E600
D2000.0 E600 360 Inspection Channel	200	240	360	1000	E600
D2010.0 E600 410 Inspection Channel	200	240	410	1000	E600
D2020.0 E600 460 Inspection Channel	200	240	460	1000	E600
D2000.0 F900 375 Inspection Channel	200	240	375	1000	F900
D2000.0 F900 395 Inspection Channel	200	240	395	1000	F900
D2010.0 F900 445 Inspection Channel	200	240	445	1000	F900
D2020.0 F900 495 Inspection Channel	200	240	495	1000	F900

MEADRAIN TRAFFIC MEAKERB



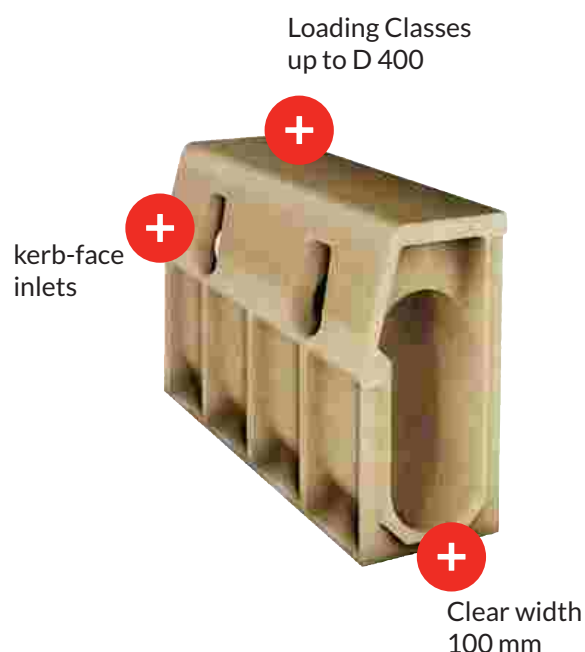
MEADRAIN TRAFFIC MEAKERB

The new MEAKERB generation benefits from the profound knowledge of our engineering department and is now available in a monolithic construction making it not only sturdier but also more economical. The MEAKERB has been designed for following applications:

- ✓ Major highways
- ✓ Rural and urban roads
- ✓ Roundabouts
- ✓ Property access roads
- ✓ Flyovers
- ✓ Car parks
- ✓ Lay-bys
- ✓ Bus stations

Drop-kerb and center stone units for access roads, plus a complete range of accessories make the MEAKERB module in conjunction with the MEA Planning Service a perfect all in one solution for fast and professional installation.

Last but not least: If a single kerbstone becomes damaged, it can be replaced individually without costly groundwork operations.



DIMENSIONS

	Total height	Length
Bus stop kerb unit	375 mm	500 mm
Standard kerb unit	320 mm	500 mm
Centre stone unit	235 mm	500 mm
Road level compensation	195 mm	500 mm

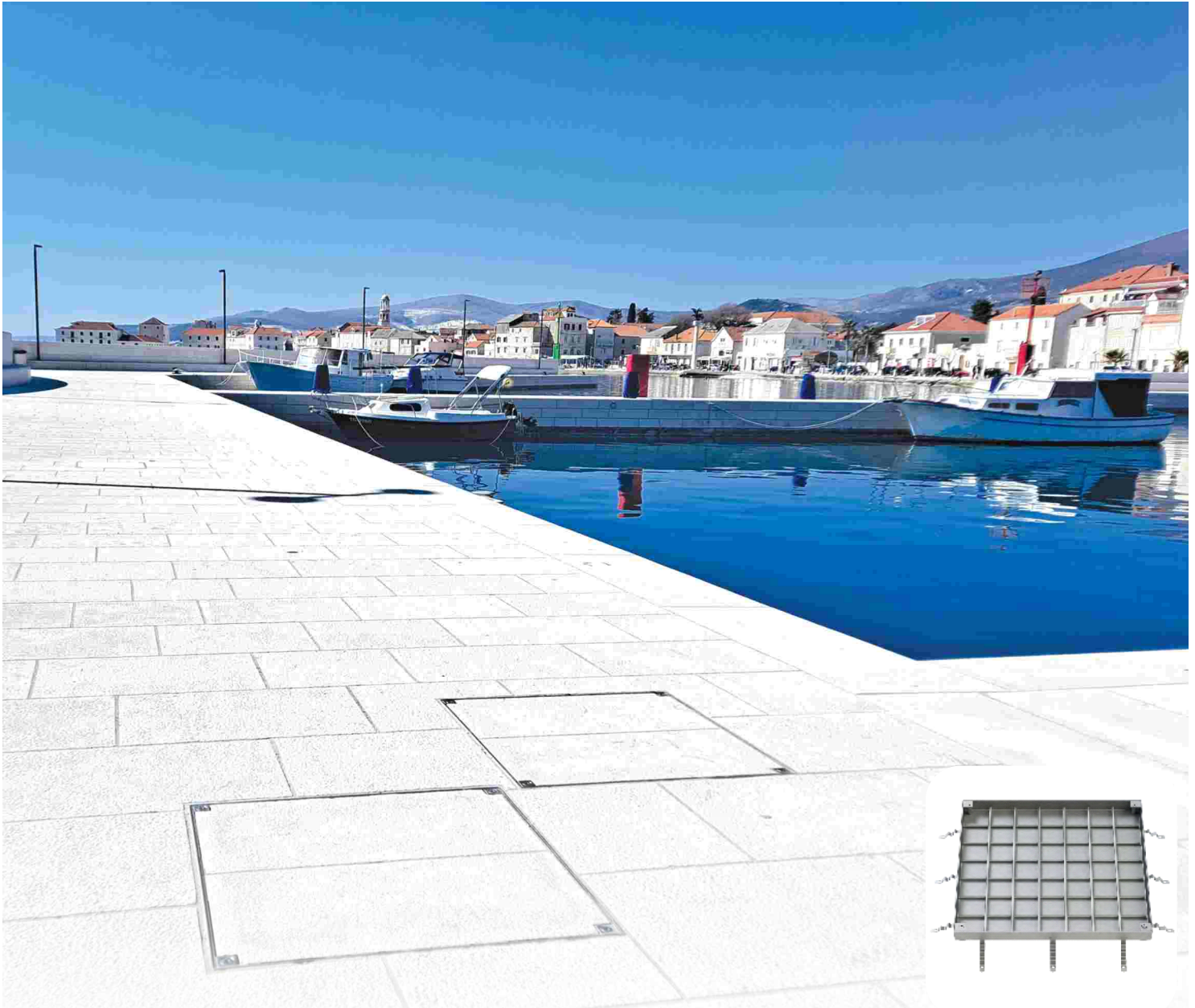
System versions

- ✓ MEAKERB 1000

Particularly suitable for loading class

- ✓ D 400

MANHOLE COVER



Type	**Height (mm)	Extend CxD dimensions (mm)	Internal AxB dimension (mm)
K3x3	50	430x430	300x300
K4x4	50	530x530	400x400
K4x6	50	530x730	400x600
K5x5	50	630x630	500x500
K5x7	50	630x830	500x700
K6x6	50	730x730	600x600
K6x8	50	630x930	600x800
K7x7	50	830x830	700x700
K8x8	50	930x930	800x800
K9x9	50	1030x1030	900x900
K10x10	50	1130x1130	1000x1000

****CUSTOMISE SIZES ALSO AVAILABLE**

***STAINLESS STEEL MANHOLE COVER**

Standard gas-tight manholes consist of an upper and a lower part, a screw fastening ensuring a secure and stable closure and reinforcement made of "Black steel". They are equipped with an O-ring seal between two parts of the hatch.

- Various Load Class Available
- Easy access to underfloor installations
- Insulation against odors
- Waterproof,
- Simple opening system
- High durability
- Aeshtetics

*Also Available In Frp & Aluminium On Request



MOLDED GRATINGS

Revolutionize Your Infrastructure
with Fiberglass Reinforced
Plastic (FRP) Gratings



FRP Manhole Cover
Fire Engine Load (EHD - 40 T)



FRP POOL GRATING



HAIKU



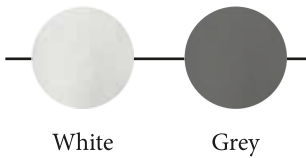
STYLISH YET COMFORTABLE PATIO FOR YOUR OUTDOOR OASIS & INDOOR HAVEN.

Haiku is a range of stylish and functional high-quality patio furniture that offers maximum relaxation and support for your body. Our versatile ergonomic designs work well for both indoor and outdoor settings. It is UV protected so no need to worry even if the Sun is burning bright!

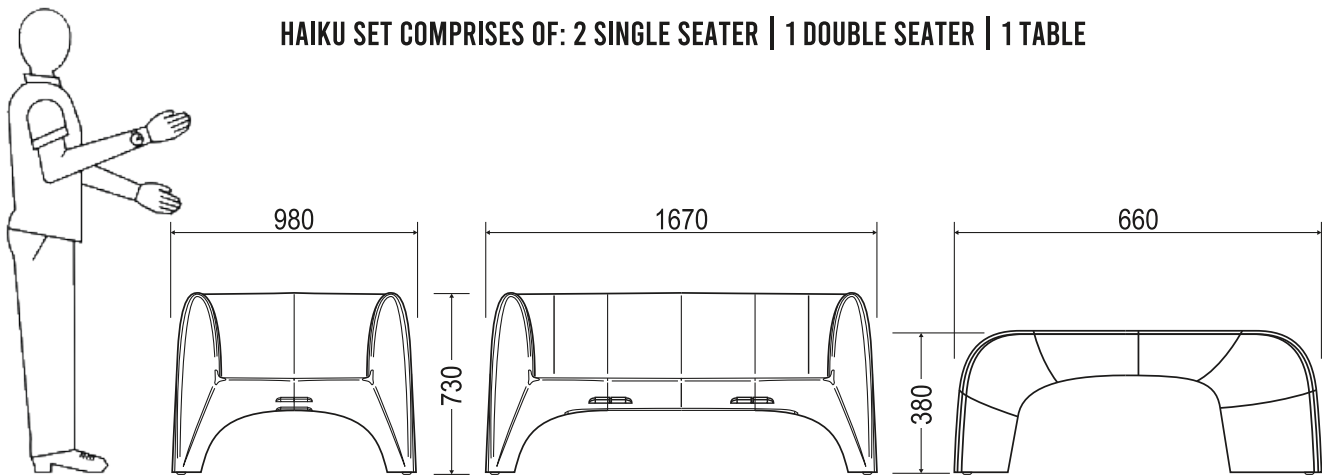
HAIKU CUSHIONS

Haiku is supplied without the cushions. The bottom cushions are supplied only on request at additional cost. The fabric of the cushion has been treated with a laminate finish which makes it 100% water proof.

COLOUR OPTIONS



HAIKU SET COMPRISES OF: 2 SINGLE SEATER | 1 DOUBLE SEATER | 1 TABLE



Size(mm)	Single Seater	Double Seater	Table
Length	980mm	1670mm	999mm
Height	730mm	730mm	380mm
Depth	725mm	725mm	660mm

CURVE



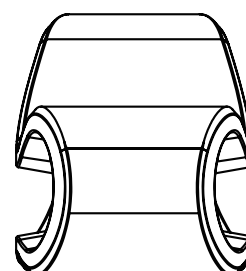
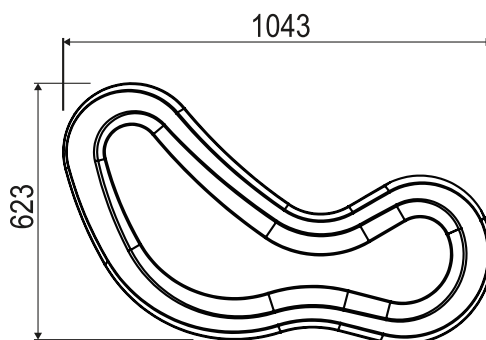
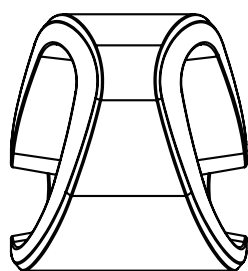
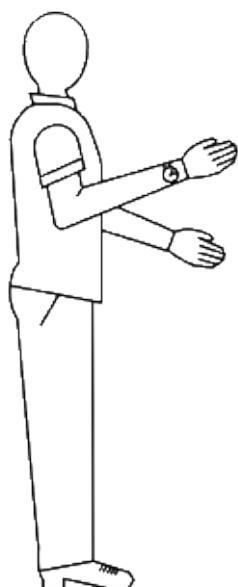
RELAX IN STYLE WITH CURVE - LUXURIOUS LOUNGE CHAIRS DESIGNED FOR COMFORT.

The Curve is a unique lounge chair designed for the ultimate comfort, as it fits every curve of your body, allowing you to relax your muscles as you sit. Curve chairs look beautiful. near the poolside, in the living room, and in your reading corner. Essentially they will fit in wherever you wish them to fit in.

COLOUR OPTIONS



Natural
White



Size	MM
Length	1043mm
Height	623mm

EPIC



STYLE MEETS FUNCTIONALITY WITH THE INNOVATIVE EPIC LED TABLE.

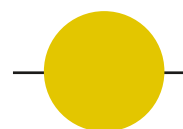
EPIC stands as a versatile stand-up planter table, perfectly suited for contemporary living. Its unique LED feature adds to its charm. This multifunctional piece serves as a sleek coffee or cocktail table, or as a convenient stand-up snack station, whether by the pool, at bars, or in conference rooms. With a built in compartment for an ice bucket, planter, napkins or tableware, EPIC adapts seamlessly to its surroundings, catering to various needs and settings. Toughened glass is placed on the table. The EPIC is available with and without the glass.

COLOUR OPTIONS

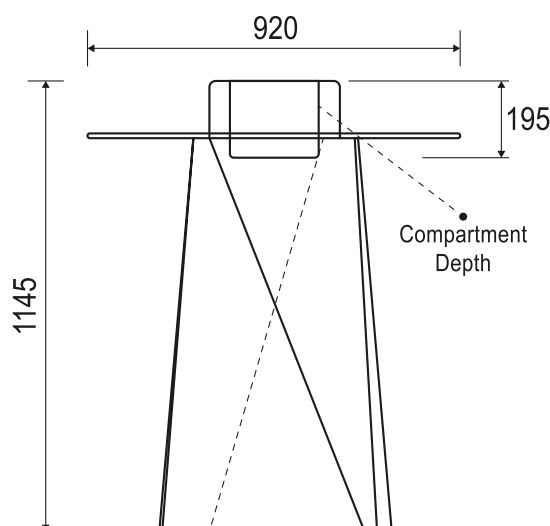
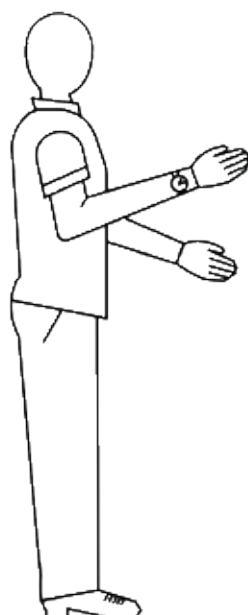


Natural
White

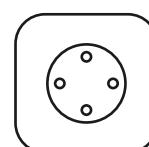
LED COLOUR



Yellow



Size	MM
Width	920mm
Height	1145mm
Compartment Depth	195mm



Easily removable
Bottom Lid with
installed LED.



LED TULIP

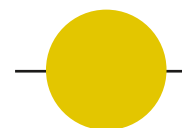


Illuminate your space with a touch of brightness using the Tulip with LED. Its integrated LED lights create a captivating glow, highlighting your favorite greenery or floral arrangements with a soft and inviting radiance.

COLOUR OPTIONS



Natural
White

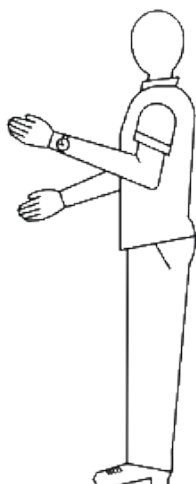
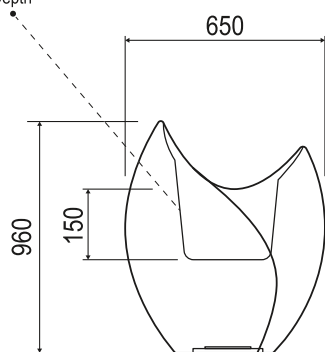


Yellow

LED COLOUR



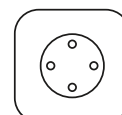
Plantation
Depth



Size	MM
Model code	G.12
Width	650mm
Height	960mm
Plantation Depth	150mm



Water outlet pipe
for excess water
to flow out.



Easily removable
Bottom Lid with
installed LED.



Water proof
bottom panel to
access the LED.

TULIP



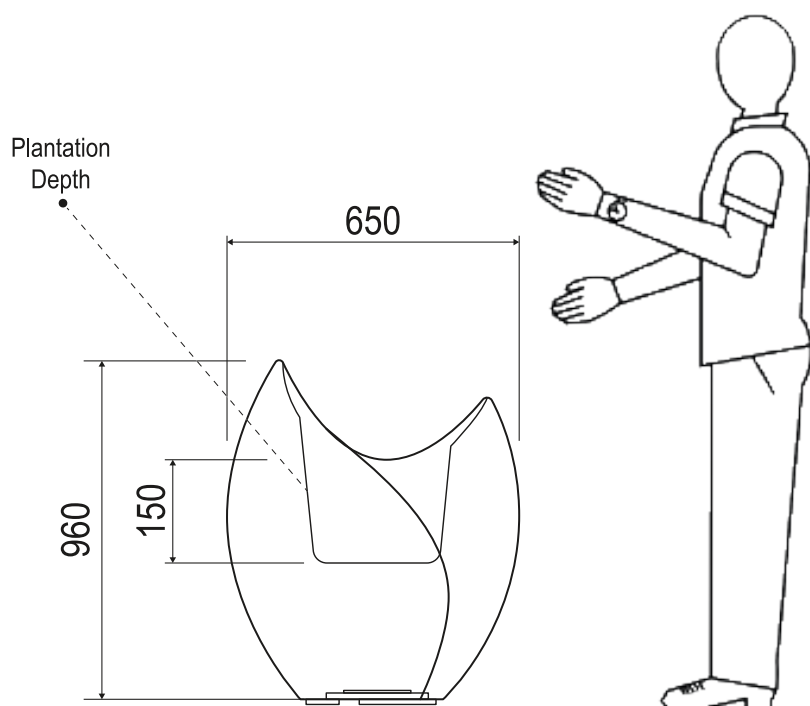
Meet Tulip Planter - An elegant planting vase made from UV - Stabilised Polyethylene that can give a royal feel to any area! Crafted with style and known for long lasting durability, it adds a touch of charm to any setting .

COLOUR OPTIONS



White

Grey



Size	MM
Model code	G.12
Width	650mm
Height	960mm
Plantation Depth	150mm

Kessel's Ecoguss®: Revolutionizing Drainage for The Modern Era

Ecoguss® Advantages: Combines benefits of polymer drains (lightweight, corrosion-free) with cast iron (sound insulation, heat resistance) without drawbacks.

Growing Acceptance: Increasingly preferred by designers and architects for its future-forward properties.

Expanded Product Range: Now includes sought-after deck drains and parking deck drains for various applications.

Versatile Applications: Ideal for hospitals, hotels, residential homes, villas, car parks, swimming pools, and more.

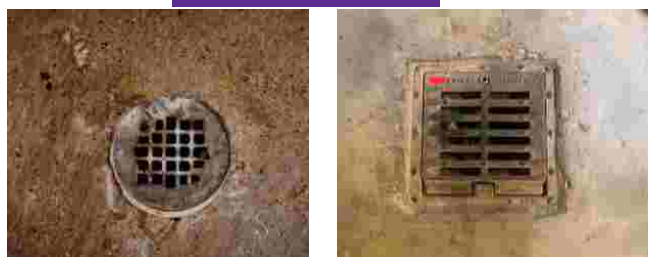


CAST IRON V/S ECOGUSS®

Ecoguss® drains boast low weight, corrosion resistance, and superior performance.

As designers and architects embrace this innovative material, the debate between cast iron and Ecoguss® becomes clearer: the future is Ecoguss® 4

CAST IRON



Ecoguss



Yard drain Ecoguss

pipe connection drain - square / round

Made in Ecoguss Heavy Duty.
Vertical outlet, with sludge trap.
Drainage capacity 4.5 l/sec flow rate.
With square (247 × 247 mm) or
round (Ø 247 mm) upper section
in Ecoguss Heavy Duty

Cover:

Round slotted cover Ø 235 mm,
class B 125 (12.5 to), with Lock & Lift System



Illustration shows Art. no. 67 110B



Illustration shows Art. no. 67 111B

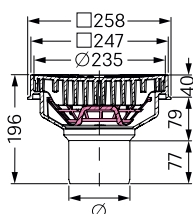


Illustration shows
Art. no. 67 110B

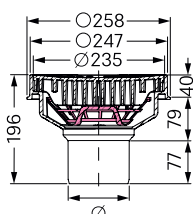


Illustration shows
Art. no. 67 111B

Drainage capacity in l/s at a accumulation height 5 - 45 mm

Outer diameter Ø (mm)	5	10	20	25	35	45	Requirement according to EN 1253
Ø 110 vertical	0.95	1.90	4.50	5.60	9.40	9.50	≥ 1.40

System 100



Outer diameter Ø (mm) Art. no.

With square support rim

Ø 110 67 110B

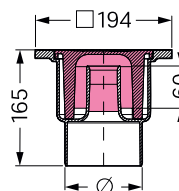
With round support rim

Ø 110 67 111B

Yard drain Alrondo

vertical outlet

Made of polymer. Vertical outlet, with
integrated odour trap.
Drainage capacity 1.6 l/sec flow rate
Cover plate 200 × 200 mm



System 100



Outer diameter Ø (mm) Art. no.

Ø 110 37 287 S

Cover:

Round slotted cover Ø 140 mm, screwed, can be
driven over by vehicles of up to 1 ton



Flat-roof drain

with pressure sealing flange

Made in PP. Vertical outlet, with pressure sealing flange with counter flange in stainless steel AISI 304, with leaf trap.

Drainage capacity 4.5 l/sec flow rate.

Installation area: 180 × 180 mm



System 100

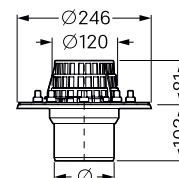


Outer diameter Ø (mm)

Art. no.

Ø 110

45 950



Flat-roof drain

with twin pressure sealing flanges

Made in PP. Vertical outlet, with twin sealing flanges, with pressure sealing flange with counter flange in stainless steel AISI 304, with leaf trap.

Drainage capacity 4.5 l/sec flow rate.

Installation area: 180 × 180 mm



System 100

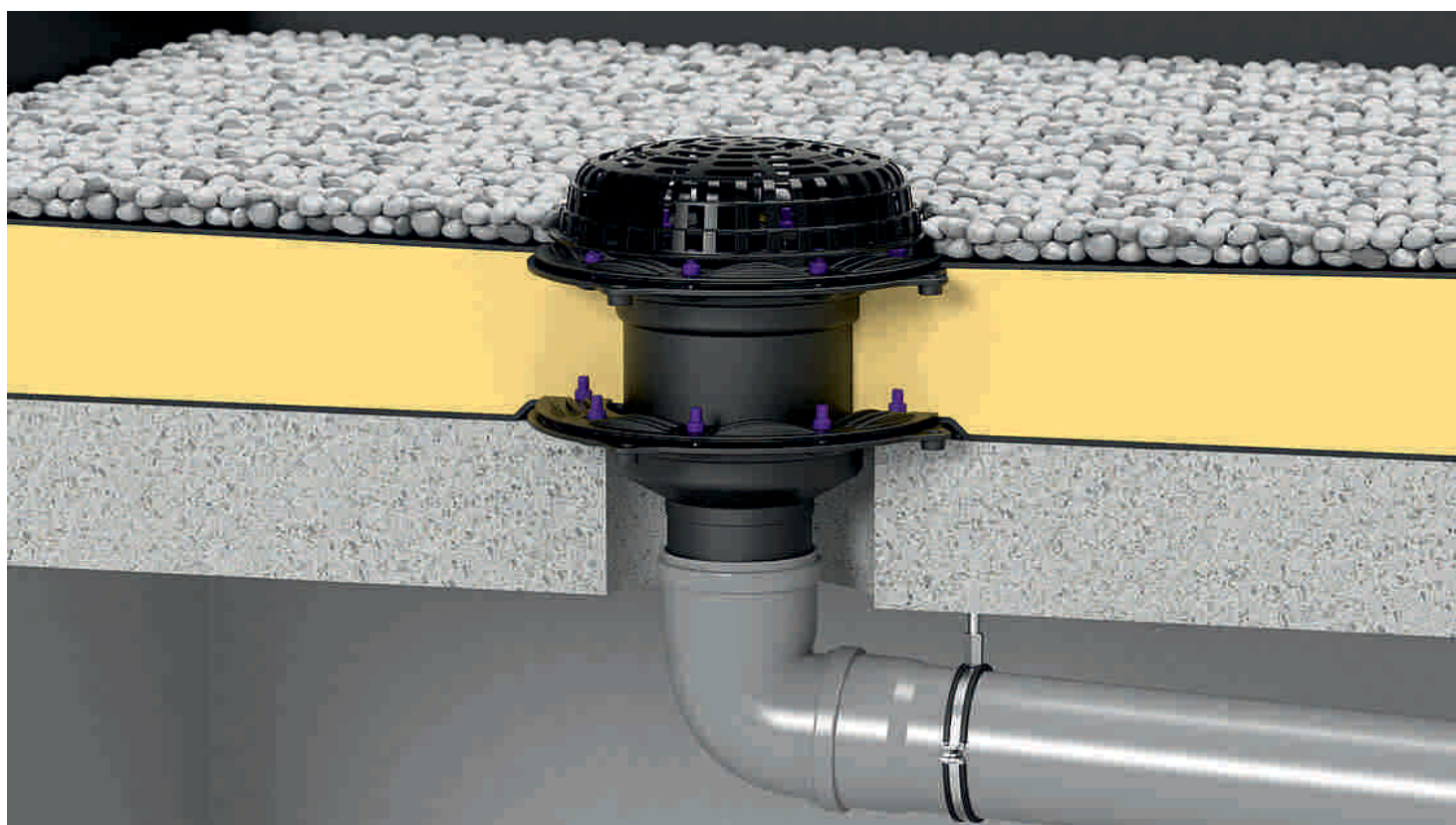
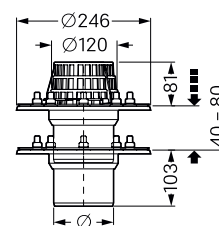


Outer diameter Ø (mm)

Art. no.

Ø 110

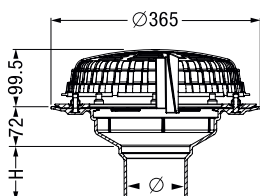
45 970



Flat-roof drains Ecoguss

with pressure sealing flange in Ecoguss resistant

Vertical outlet, with single seal, pressure sealing flange in Ecoguss resistant, gravel trap.
Installation area: Ø 227 mm



Outer diameter Ø (mm) H in mm Art. no.

Without heating

Ø 78	96.5	48 370*
Ø 110	93	48 310*
Ø 125	93	48 312*

With heating

Ø 78	96.5	48 370.03
Ø 110	93	48 310.03
Ø 125	93	48 312.03

* TÜV test mark only applies to marked items



EN 1253-1 / DIN 1986-100

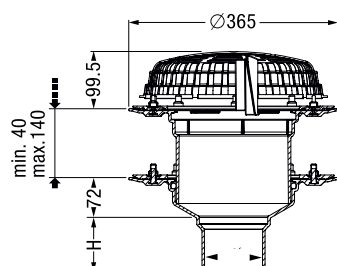
Drainage capacity in l/s with 5 - 65 mm threshold

Outer diameter	5	15	25	35	45	55	65	According to DIN EN 1253
DN/DA 70/78 senkrecht	0,60	2,85	5,35	7,80	10,50	13,90	16,50	≥ 1,7
DN/DA 100/110 senkrecht	0,60	1,90	4,50	7,30	11,10	14,65	19,35	≥ 4,5
DN/DA 125/125 senkrecht	0,90	3,30	5,95	9,00	12,75	15,10	19,40	≥ 7,0

Flat-roof drains Ecoguss

with pressure sealing flange in Ecoguss resistant

Vertical outlet, with double seal for installation in waterproof concrete, pressure sealing flange in Ecoguss resistant and counter flange, upper section in Ecoguss resistant Ø 200, gravel trap.
Installation area: Ø 227 mm



Outer diameter Ø (mm) H in mm Art. no.

Without heating

Ø 78	96.5	48 370.01*
Ø 110	93	48 310.01*
Ø 125	93	48 312.01*

With heating

Ø 78	96.5	48 370.02
Ø 110	93	48 310.02
Ø 125	93	48 312.02

* TÜV test mark only applies to marked items



EN 1253-1 / DIN 1986-100

Drainage capacity in l/s with 5 - 65 mm threshold

Outer diameter	5	15	25	35	45	55	65	According to DIN EN 1253
DN/DA 70/78 senkrecht	0,60	2,85	5,35	7,80	10,50	13,90	16,50	≥ 1,7
DN/DA 100/110 senkrecht	0,60	1,90	4,50	7,30	11,10	14,65	19,35	≥ 4,5
DN/DA 125/125 senkrecht	0,90	3,30	5,95	9,00	12,75	15,10	19,40	≥ 7,0

BUILDING DRAINAGE

Bathroom drains

Floor drains
Shower channels
Wall drains



Stainless steel drains

Floor drains
Floor trays
Box channels
Slotted channels



Outdoor drains

Roof drains
Gutter drains



Outdoor drains

Floor drains
Yard drains
Parking deck drains



Backwater protection

Backwater valves
Backwater chambers
Backwater pumping stations

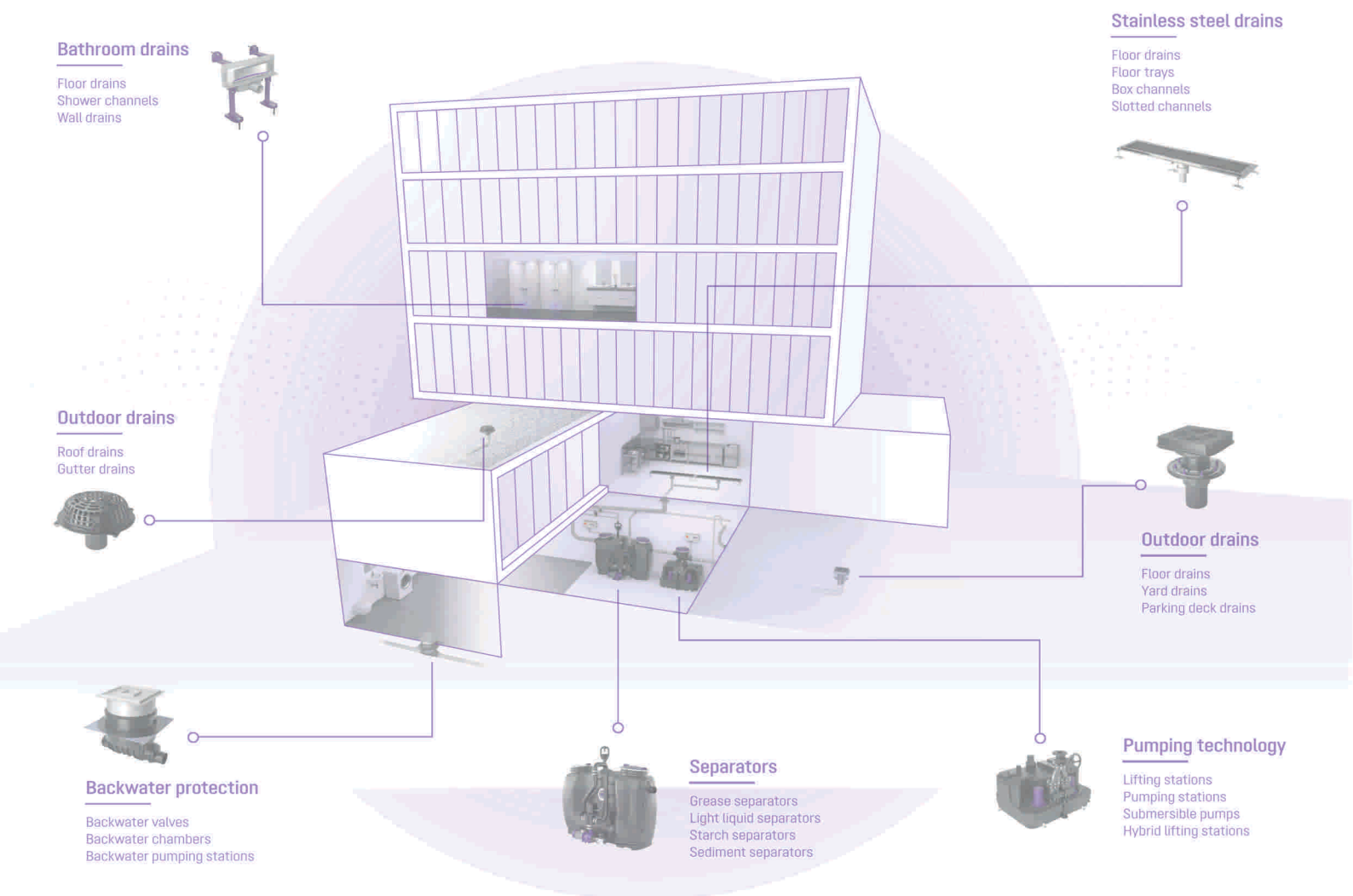
Separators

Grease separators
Light liquid separators
Starch separators
Sediment separators

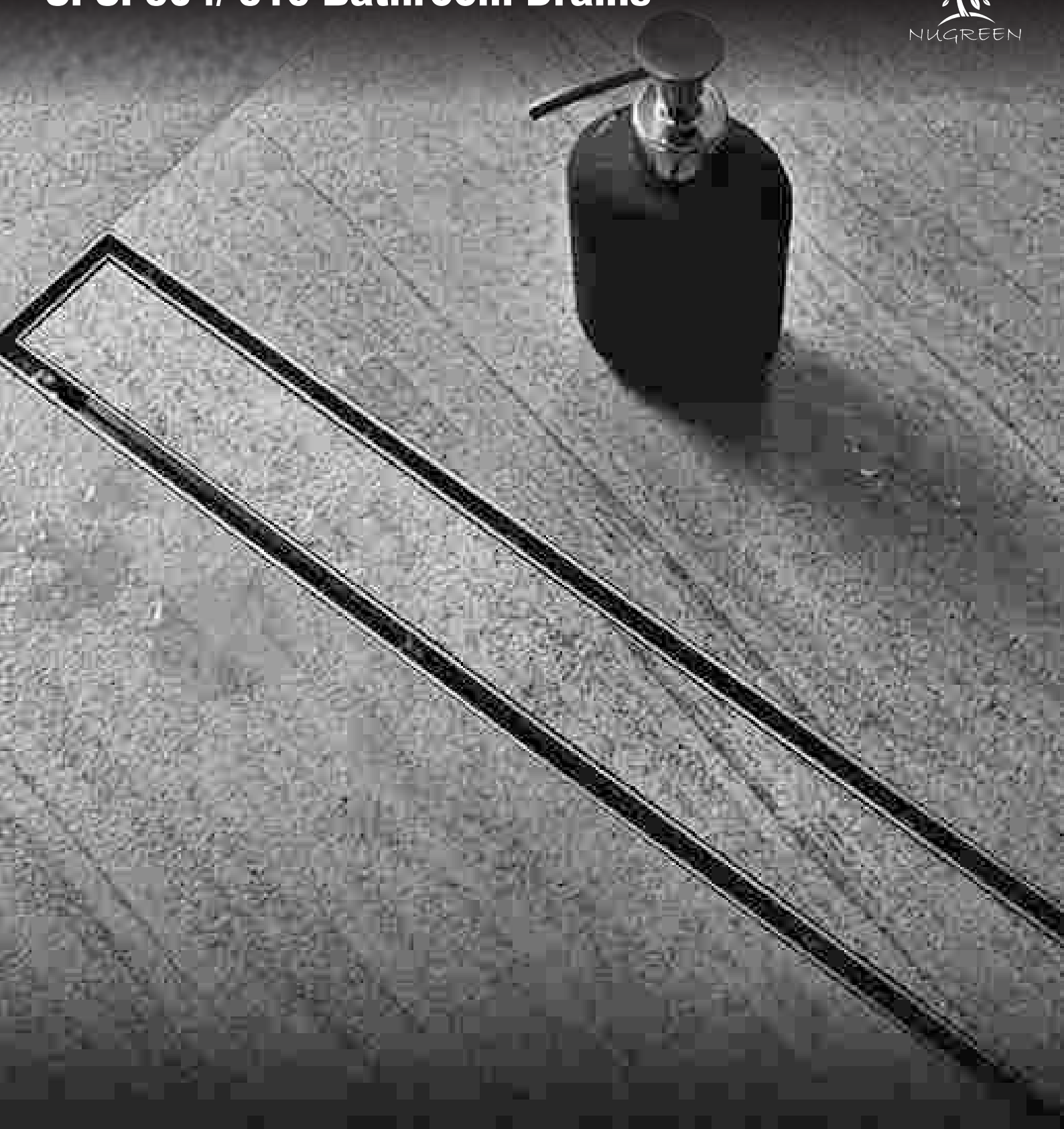


Pumping technology

Lifting stations
Pumping stations
Submersible pumps
Hybrid lifting stations



S. S. 304/ 316 Bathroom Drains

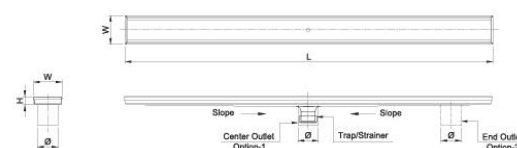


Nugreen's Bathroom Drains
Product Range

STAINLESS STEEL 304/316 BATHROOM DRAINS

- Easy to install.
- Effective drainage
- With pickle passivation to prevent corrosion
- Manufactured using 304 or 316 grade stainless steel.
- Available in various width & length
- Customized dimensions and design are also available.

Colours Available



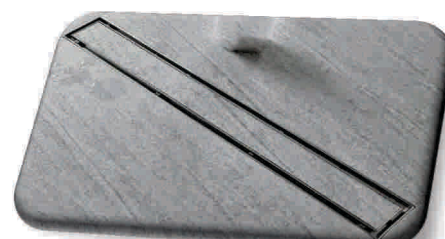
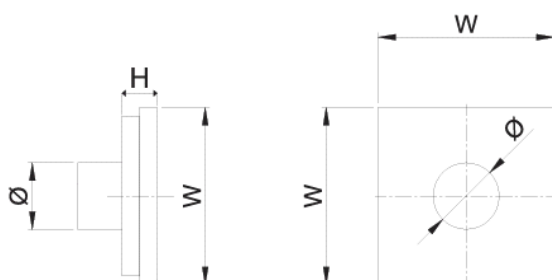
Nugreen Linear Shower Channel (Material S.S.304/316)

Size (mm)	L (mm)	W (mm)	H (mm)	Ø (mm)
NGS300.70.50	300	70	20	50
NGS450.70.50	450	70	20	50
NGS600.70.50	600	70	20	50
NGS700.70.50	700	70	20	50
NGS300.100.50	300	100	20	50
NGS450.100.50	450	100	20	50
NGS600.100.50	600	100	20	50
NGS700.100.50	700	100	20	50

HORIZONTAL OUTLET ALSO AVAILABLE ON REQUEST.

Nugreen Square Point Drain (Material S.S.304/316)

Size (mm)	L (mm)	W (mm)	H (mm)	Ø (mm)
NGS100.25.50	100	100	25	50
NGS125.25.50	125	125	25	75
NGS150.25.50	150	150	25	100
NGS200.25.50	200	200	25	160



KESSEL BATHROOM DRAIN-POINT DRAIN



The lowest installation height on the market

The new Ultraflat 54 and Ultraflat 79 floor drain with total height of 63mm and 8mm



Grating



Odour Trap



Upper Section Drain



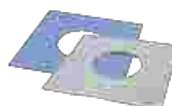
Water Proofing Membrane



Lower Drain Body



Sound Protection



New Water Proofing Membrane



Odour Trap in the Upper Section



Lock & Lift System



New Mechanical Odour Trap with Water Reservoir Megastop



New Installation AID



Floor drain The Ultraflat 54

with standard odour trap

Made in ABS

Specifications: With lateral outlet, removable odour trap in the upper section, sealing water height 22 mm and with factory-mounted or non-mounted** waterproofing membrane according to EN 1253-1 and DIN 18534-1-W3-I. Drainage capacity in l/sec with 20 mm / 10 mm threshold

Ø 40: 0.8 (*0.9) l/sec / 0.7 l/sec

Ø 50: 0.8 l/sec / 0.6 l/sec. Installation

height 63 – 121 mm. Installation area 350 × 350 mm

Cover: Design cover Kessel 120 × 120 mm (anti-slip class R9 according to DIN 51130; anti-slip class C according to DIN 51097) and rim made of stainless steel AISI 304 (rim height: 9 mm without Lock & Lift locking system, 16 mm with Lock & Lift locking system), class L 15 or slotted cover 120 × 120 mm made of stainless steel AISI 304, rim height 9 mm, class K 3



Illustration shows floor drains with Lock & Lift locking system

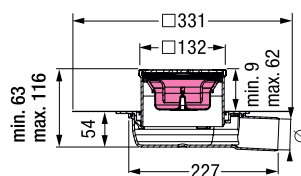


Illustration shows Art. no. 44 740.62M, 44 750.62M, 44 740.20M, 44 750.20M

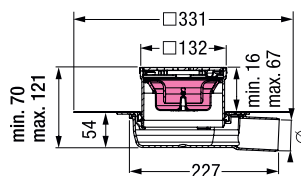


Illustration shows floor drains with Lock & Lift locking system

Outer diameter Ø (mm)

Art. no.

With design cover, without Lock & Lift locking system

Ø 40	44 740.62M
Ø 50	44 750.62M
Ø 40**	44 740.62
Ø 50**	44 750.62

With slotted cover, without Lock & Lift locking system

Ø 40	44 740.20M
Ø 50	44 750.20M
Ø 40**	44 740.20
Ø 50**	44 750.20

With design cover, with Lock & Lift locking system

Ø 40*	44 740.63M
Ø 50	44 750.63M
Ø 40**	44 740.63
Ø 50**	44 750.63

*drainage capacity Ø 40: 0.9 l/sec with 20 mm threshold

**with non-mounted waterproofing membrane

Floor drain The Ultraflat 54

with mechanical odour trap Megastop

Made in ABS

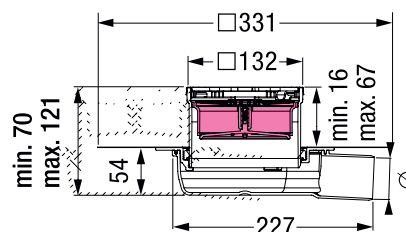
Specifications: With lateral outlet, mechanical odour trap Megastop in the upper section, hair filter, backwater-proof up to 0.1 bar and with factory-mounted waterproofing membrane according to EN 1253-1 and DIN 18534-1-W3-I. Drainage capacity in l/sec with 20 mm / 10 mm threshold

Ø 40: 0.7 l/sec / 0.6 l/sec

Ø 50: 0.6 l/sec / 0.55 l/sec. Installation height 70 – 121 mm. Installation area 350 × 350 mm

Cover:

Cover: Design cover Kessel 120 × 120 mm (anti-slip class R9 according to DIN 51130; anti-slip class C according to DIN 51097) and rim made of stainless steel AISI 304 (rim height: 16 mm), class L 15, with Lock & Lift locking system



Outer diameter Ø (mm)

Art. no.

Ø 40	44 740.66M
Ø 50	44 750.66M

Modular system 100

for body classic, The superflat and Floordrain MEA

Showe Channel Upper Section

with cover in stainless steel AISI304



Linearis Compcat

In stainless steel AISI 304

Material: ABS, rim in stainless steel class: K3

Cover: Can be reversed and tilted on site

Sealing water height: 50 mm

Drainage capacity: 0.6l/sec (10mm threshold)

Inclusive: Removable odour trap (remove from all drain bodies during

Installation) seeping water opening

prepared. Installation Supports and

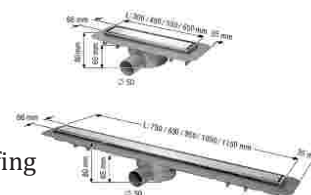
waterproofing membrane

Channel Length in mm	Art. no.
300	47 805S
450	47 805S
550	47 806S
650	47 807S
750	47 808S
850	47 809S
950	47 810S
1050	47 811S
1150	47 812S

Shower channel Linearos Compact

with cover and rim in stainless steel AISI 304

Made in ABS. With natural Cutlet Ø 50, installation depth only 80 mm, removable odour trap, installation supports and with factory- moated waterproofing membrane according to EN 1253-1 and DIN 18534-1-W3-L Drainage capacity 0.6l/sec/0.7l/sec with 10 mm/ without threshold sealing water height 22 mm



Channel Length in mm	Art. no.
300	45 600.59M
450	45 600.60M
550	45 600.61M
650	45 600.62M
750	45 600.63M
850	45 600.64M
950	45 600.65M
1050	45 600.66M
1150	45 600.67M

Cover

Cover and rim in stainless steel AISI 304 (Channel cover can be reversed and tiled on site), for he thickness 15 mm, class K 3, seeping water opening prepared

Upper sections

with cover in stainless steel



with design cover
in stainless steel AISI 304

Material: ABS, rim in stainless steel
Class: L 15 (Kessel, Oval) / K 3 (Spot, Slot)

Cover: 120-120 mm

Anit-slip class design cover Kessel:

R9 according to DIN 51130;

C according to DIN 51097

Cover	Art. no.	Cover	Art. no.
with Lock & Lyr System		with Lock & Lyr System	
AISI 304	27 201	AISI 304	27 225
AISI 304	27 202	AISI 304	27 226
AISI 304	27 221	AISI 304	27 220
AISI 304	27 219	AISI 304	27 218

with slotted Cover Art. no.
In stainless Steel AISI 304

Material: ABS, rim in stainless steel

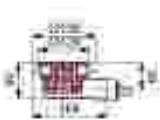
Class: K3 / L 15

Cover: 138 + 138 mm

Class K 3	Art no. 27 196
Class 15	Art no. 27 176
	anti-slip

Drain bodies Classic in ABS

with / without removable odour trap



Lateral outlet / Vertical outlet Ø 50 / Ø 75

Sealing water height: 50 mm

Drainage capacity: 0.8l/sec with 20 mm threshold

with removable odour trap

Lateral outlet	Art. No.	Lateral outlet	Art. No.
Ø 50	40 150	Ø 50	40 250
Ø 75	40 170	Ø 75	40 270

Lateral outlet	Art. No.	Lateral outlet	Art. No.
Ø 50	40 150	Ø 50	40 251
Ø 75	40 170	Ø 75	40 271

Drain bodies Classic in ABS

with / without removable odour trap



Three lateral inlets Ø 55,
one lateral outlet Ø 82

Drainage capacity: 1.8l/sec with 20 mm threshold

Drainage capacity: Glue connection according to BS 5255.

DIN Push fit / DIN glue connection available as accessories

Art. no. 37 3001

VARIOFIX SHALLOW BED UPPER SECTIONS

with covers in stainless steel



with slotted cover
in stainless steel AISI 304

Material: ABS, rim in stainless steel
Class: K3
Tile thickness: 8 - 16 mm
Cover: 138 x 138 mm, screwed
Inclusive: Waterproofing membrane



with standard slotted cover
in stainless steel AISI 304

Material: ABS
Class: K3
Tile thickness: 6 - 14 mm
Cover: 95 x 95 mm
Inclusive: Waterproofing membrane



with recessed polymer cover
for on-site tiling

Material: ABS, rim in stainless steel AISI 304
Class: K3
Tile thickness: 10 mm
Cover: 110 x 110 mm, with locking system
Inclusive: Waterproofing membrane



with tileable cover
made of polymer

Material: ABS,
rim in stainless steel/polymer
Class: K3
Cover: 110 x 110 mm



with slotted cover
in stainless steel AISI 304

Material: ABS,
Class: K3
Cover: 100 x 100 mm



with closed cover
in stainless steel AISI 304

Material: ABS,
Class: L 15
Cover: 150 x 150 mm
screwed
Inclusive: Gasket

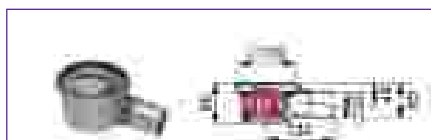


with closed cover
in stainless steel AISI 304

Material: ABS,
Class: L 15
Cover: 150 x 150 mm
screwed
Inclusive: Gasket

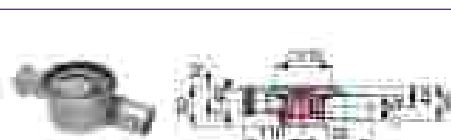
DRAIN BODIES THE SUPERFLAT IN PP

with removable odour trap



Lateral outlet Ø 50,
with lateral inlet

Sealing water height: 30 mm
Drainage capacity:
0.8 l / sec with 20 mm threshold



Lateral outlet Ø 50
one lateral inlet Ø 40

Sealing water height: 30 mm
Drainage capacity:
0.8 l / sec with 20 mm threshold



Lateral outlet Ø 50
one lateral inlet Ø 40

Sealing water height: 30 mm
Drainage capacity:
0.8 l / sec with 20 mm threshold

FLOOR & KITCHEN DRAINS



FLOOR DRAINS



GENERAL INFORMATION

By standard, all floor drains and rodding eyes are made of stainless steel: AISI 304, EN 1.4301 and AISI 316L, EN 1.4404. The type of drain depends on the load class, the amount of drained liquid (medium) and design parameters (e.g. ceiling thickness).

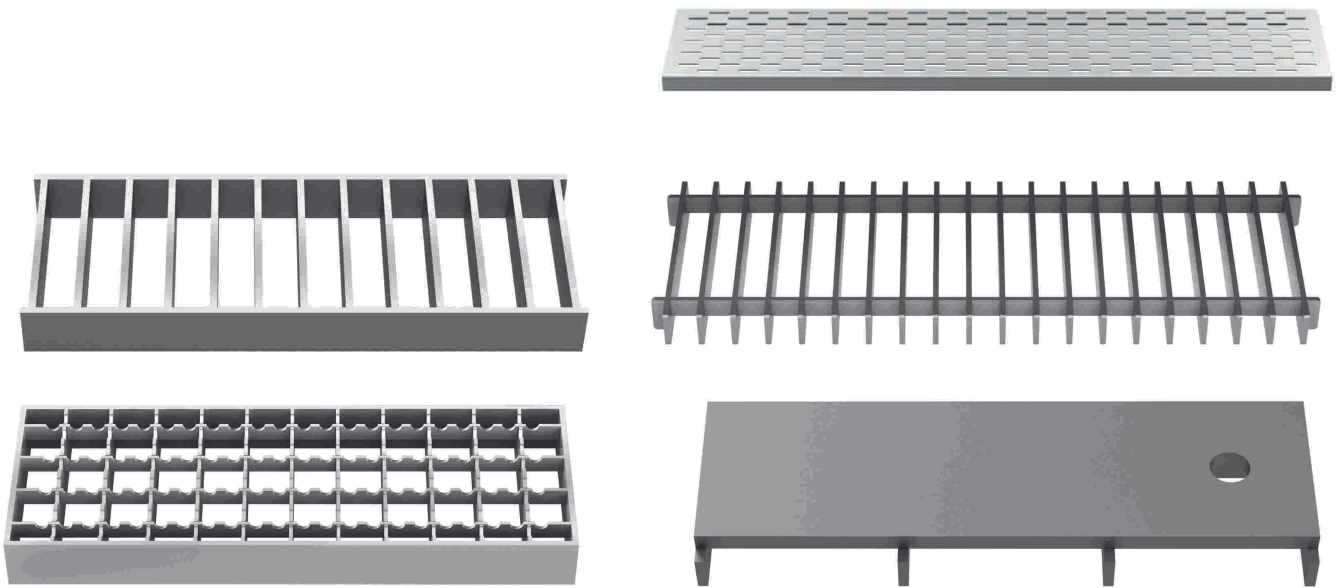
Floor drains are made of sheet metal of thickness adapted to a defined type of drain. All elements are welded using argon shield, and then are pickled, thus ensuring high quality of joints.

ADVANTAGES OF FLOOR DRAINS

- highest hygienic design and construction standards, following EHEDG guidelines,
- possibility to select a grate depending on application and load class,
- easy installation,
- bdue to suitable trap design, each gully is also the sewer rodding eye,
- simple design,
- easy and effective cleaning.

Parameter	Technical information
Frame shape	Square / Round
Frame dimensions for square floor drains (mm)	Standard from 100x100 to 400x400 Other sizes on request
Frame diameter for round floor drains (mm)	Standard from 150 to 300 Other sizes on request
Body design	One piece / Two pieces
Type of outlet	One piece / Two pieces
Size of outlet (external diameter, mm)	From 50 to 200
Capacity (l/s)	From 0.9 to 13.9
Total height (mm)	From 58 to 440
Type of grating	Mesh / Ladder / perf. plate / plate

STANDARD CHANNELS

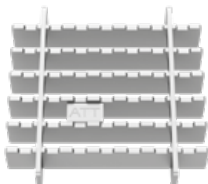


**Ladder
Grating**



Grating without edges
for higher hygiene

**Ladder Antislip
Grating**



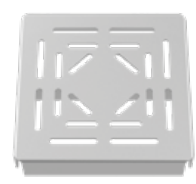
Antislip ladder grating

**Plate
Grating**



Hidden flat bars to prevent from
formation of dirt on edges

**Perforated sheet
Grating**



Hidden flat bars to prevent
from formation of dirt on edges

They are used to collect waste from the surface of the floor and drain it into the sewage system. Drainages of this type are used in food plants (breweries, dairies, abattoirs) and chemical industry plants.

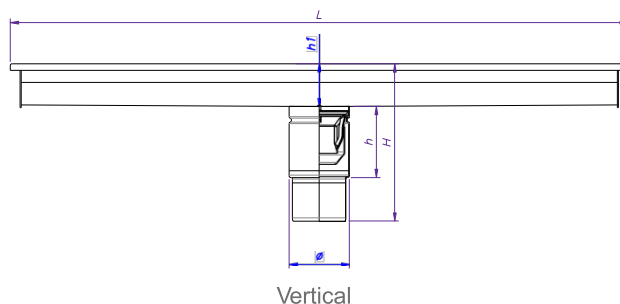
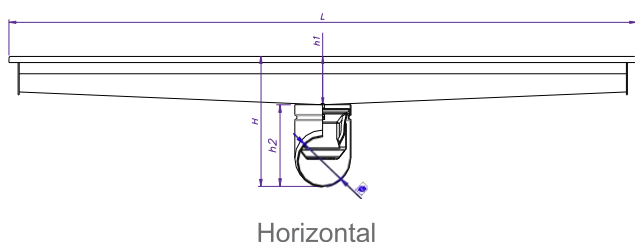
PRODUCTION TECHNOLOGY

Standard channels are manufactured in a wide range of dimensions and shapes. They are produced according to a drawing prepared as a result of cooperation between an investor, a designer or a technologist

and ATT engineers. By standard, we use sheet metal of 2 [mm] thickness made of AISI 304, EN 1.4301 or AISI 316L, EN 1.4404 grade steel for production. The drainpipes have built-in bottom slope, which by standard is 0,5%. There is a possibility to adapt the size of the slope to a specific project. In order to facilitate installation, each channel is equipped with rectifying screws and anchoring elements. They allow correct levelling of the drainpipe and its settling in concrete.

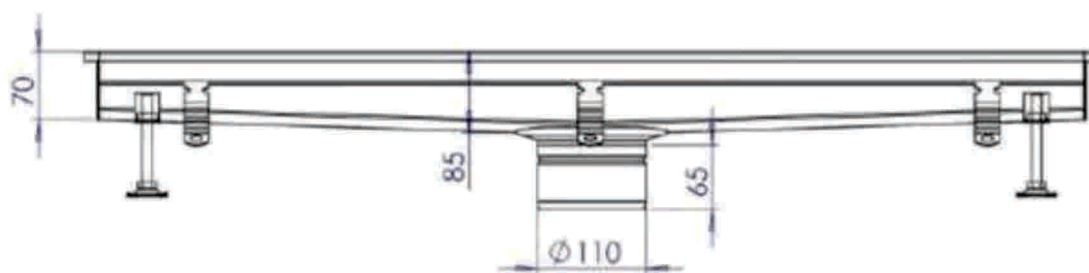
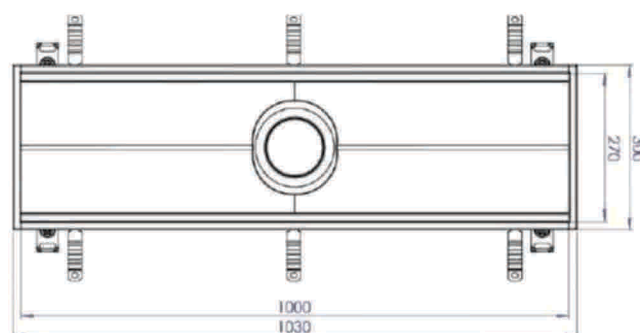
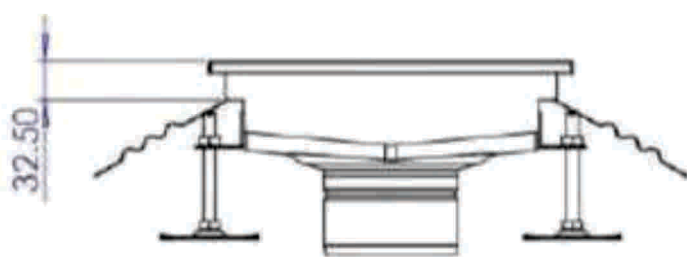
STANDARD CHANNEL

Model	L	W	H	T	h	h1	Ø	FAT	STR	Outlet	Grating
300	1000	300	85	70	32	22	110	90	90	Vertical	Anti Slip Mesh Grating
200	1000	200	85	70	32	22	110	70	90	Vertical	Anti Slip Mesh Grating
150	1000	150	85	70	32	22	110	50	90	Vertical	Anti Slip Mesh Grating



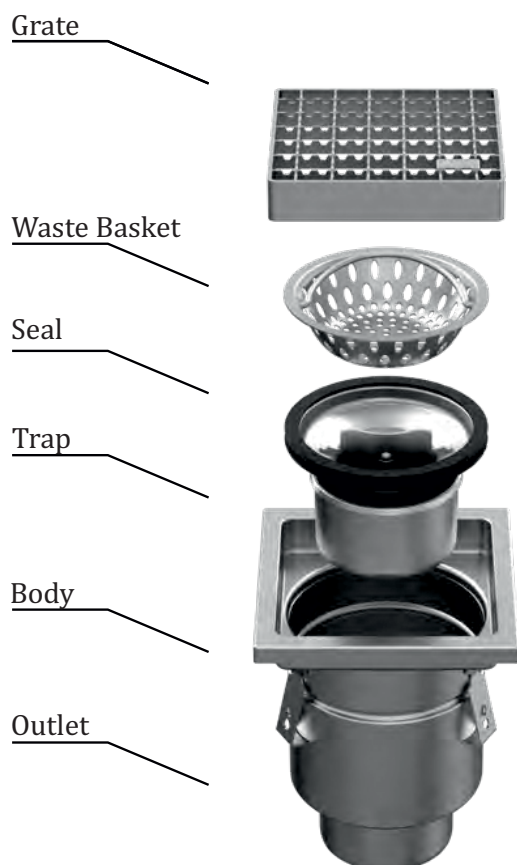
LINEAR EXTENDABLE CHANNEL

Model	L	W	H	h	h1	Ø	Slope	Grating
300	1000	300	85	32	22	110	0.5%	Anti Slip Mesh Grating
350	1000	350	85	32	22	110	0.5%	Anti Slip Mesh Grating
600	1000	600	100	32	22	110	0.5%	Anti Slip Mesh Grating

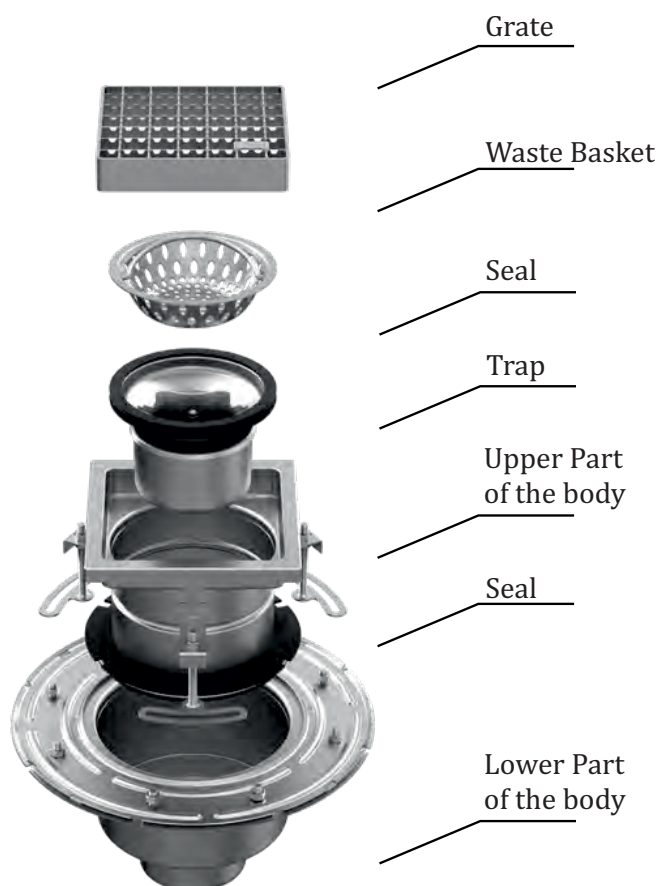


FLOOR DRAINS

EXAMPLES SINGLE PART DRAIN



EXAMPLES TWO PART DRAIN



DESCRIPTION OF THE DRAINS COMPONENTS

Bodies : Round shape Limits waste accumulation and enables easy waste removal. The welded joints are grinded to remove sharp edges and ensure safe installation or cleaning.

Gratings : Available in various shapes, dimensions and finishing versions. The gratings are selected according to the loads and location of installation. We offer the following grating types: mesh anti-slip, ladder, plate and perforated sheet.

Waste Baskets : Recommended when the drained WASTEWATER has a high content of solids.

Strainers : Used when the amount of solids is small.

Traps : Very functional and easy to maintain. Ensures easy access to the sewer, quick cleaning and offers a possibility of checking of locks.

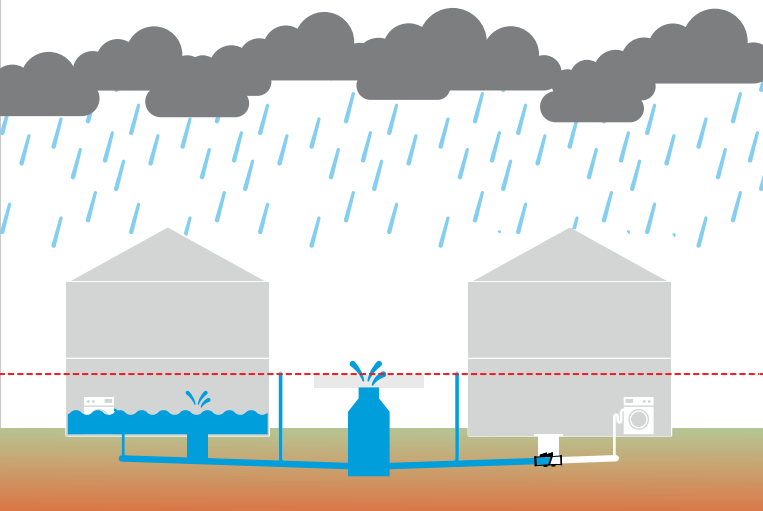
Flanges : Used when it's necessary to drain water from horizontal systems installed under the floor.



BACKWATER PROTECTION

EVERYTHING SPECIALISTS NEED TO KNOW

What is backwater and what criteria must be noted for the correct product choice?



Water drainage system without backwater protection
During heavy rain, the water level rises above the so-called backwater level. This term is usually used to mean street level. Rooms in the basement or cellar quickly become flooded. The results are significant damage and costs.

Water drainage system with backwater protection
Wastewater that flows with a slope to the sewer will be protected by a backwater valve. In the event of backwater, the flap closes so that no wastewater can enter the building. If the public sewer is higher than the drainage spot in the building, the wastewater must be pumped above the backwater level, for example via an Aqualift lifting station from KESSEL.

BACKWATER VALVE STAUFIX Ø 50 Or Ø 75

Standard-compliant in nominal widths Ø 50 or Ø 75

Individual drainage points such as washbasins, showers or washing machines can be very simply protected against backwater with the staufix Ø 50 or staufix Ø 75 backwater valves.

The staufix Ø 50 or Ø 75 can be installed in the pipe to protect several drainage points. There are also additional variants of the Staufix Ø 50 with siphon traps, with washing machine connections or with inlet funnel for the emergency overflow of heating systems. This ensures that individual drainage points are protected.

Standard-compliant

The small backwater valves staufix Ø 50 and Staufix Ø 75 are each equipped with two flaps and an emergency closure and the first standard compliant backwater double valves for wastewater without sewage per EN 13564

Tool-free maintenance

The maintenance and cleaning of the backwater valves is particularly convenient and possible without any tools whatsoever thanks to the quick release closure.

Area of application

The backwater valves are versatile in use: they can be installed as individual safeguards for washbasins, showers or washing machines, as a central backwater protection in horizontal drainage pipes or as an emergency overflow for heating systems.



Ø 50 or Ø 75 exposed drainage pipe



Washbasins with odour traps and washing machine connection



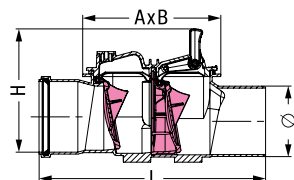
Twin flap backwater valve with inlet funnel for emergency overflow or heating system

Twin flap backwater valve Staufix Basic

Installation in an exposed wastewater pipe

CE EN 13564 Type 2

Made of polymer. Installation area 650 × 300 mm. Twin flaps, self-closing, one of which can be locked by hand as an emergency closure. Inlet/outlet for connection to PVC pipe according to EN 1566-1.



Without rodent protection
(two polymer flaps)



Outer diameter Ø (mm)	L × H in mm	A × B in mm	Art. no.
Ø 110	355 × 180 + 25	205 × 155	73 100
Ø 125	405 × 240 + 40	270 × 200	73 125
Ø 160	450 × 240 + 40	270 × 200	73 150
Ø 200	530 × 278 + 50	353 × 248	73 200

With rodent protection
(one polymer and one stainless steel flap)

Outer diameter Ø (mm)	L × H in mm	A × B in mm	Art. no.
Ø 110	355 × 180 + 25	205 × 155	
Ø 125	405 × 240 + 40	270 × 200	
Ø 160	450 × 240 + 40	270 × 200	

Backwater valve Multitube

The high-performance solution for larger pipes.

The Multitube is a powerful backwater valve for large-diameter pipes in public, municipal and industrial areas. It can be installed in an exposed drainage pipe. The Multitube is also completely corrosion free as it is made entirely from polymer. Available in diameters of Ø 260 mm to Ø 515 mm.

Area of application

The Multitube backwater valve is suitable for use in leaching and pond systems and behind cisterns that are separately connected to a rainwater channel or that lead to a drainage ditch. It provides not only reliable protection against backwater, but also provides additional protection against rats, mice, frogs and vermin.



Single flap backwater valve Multitube

Installation in an exposed wastewater pipe

Made of polymer,
One self-closing flap,
incl. two connection couplings

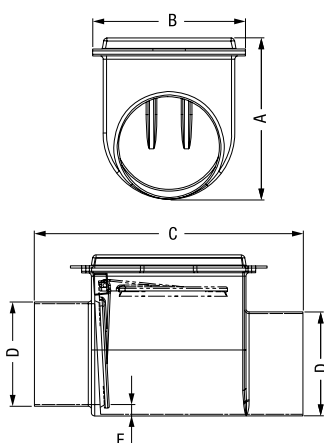


Illustration shows Art. no. 71 400



Outer diameter Ø (mm)	A in mm	B in mm	C in mm	D in mm	E in mm	Connection for pipe size Ø mm	Art. no.
With connection couplings*, for connection to all pipe materials							
Ø 260	485	455	730	260	60	250 275	71 250
Ø 320	490	470	825	320	35	305	71 300
Ø 410	600	610	900	410	30	385	71 400
Ø 515	730	700	1230	515	40	425	71 500

Backwater Protection

Installation example Staufix



Staufix twin flap backwater valve - the classical item in the KESSEL backwater range and the successful original. The current model is made of ABS, completely corrosion-free and can be serviced without tools. Protects individual drainage fixtures such as shower, sink and washing machine below the backwater level. Installation in the concrete slab with upper section Art # 32500 and two cover plates Art. # 30004 or for installation in an exposed wastewater pipe.

Professional advantages

■ Tool-free servicing

Everything made of polymer material - corrosion-free

Backwater flap made of stainless steel to keep rats and vermin out

Perfect for renovation

Other valves with large drops are difficult to install. Staufix offers minimal drop between inlet/outlet (7mm).

Can be **retrofitted/converted** after installation



Scan this QR code to directly view the corresponding product video



Staufix

Accessories

Illustration and dimensioned drawing	Article description	Outer diameter Ø mm	Article #
	Cover plate, class L 15 □black Upper section height = 220 mm for aritcal numbers: 70 100, 70 125, 70 200, 71 100, 70 125, 71 150, 71 200, 72 100, 72 125, 72 150, 72 200 72 100R 72 125R, 72 150R 73 100, 73 125, 73 150, 73 200, 73 100R, 73 125R, 73 150R		30004 S 32500
	Conversion kit the Staufix clean out body can be converted to a Staufix twin flap backwater valve by means of two backwater flaps 1 , the insertflap housing 2 and the lockable cover 3 , Please note : 2x backwater flap 70 205 and the lockable cover are required for the Ø200 version	Lockable cover incl. emergency closure and sealing gasket: 100 125 160 200	70261 70262 70262 70203
	Conversion kit the Staufix clean out body can be converted to a Staufix twin flap backwater valve with emergency closure by means of the back backwater flap 1 , insert flap housing 2 and the lockable cover 3 ,	Imsert flap housing: 100 125 160 200	70241 70242 70242 70205
For Staufix from 04/2005 	Conversion kit the Staufix clean out body can be converted to a Staufix single flap backwater valve by means of a backwater flap 1	Backwater flap: 110 125 160 200	70231 70232 70232 70205
	Stainless steel rodent protection flap for article number : 70 100 70 125, 70 150, 71 100, 71 125, 71, 150 72 100, 72 125, 72 150, 73 100, 73 125, 73 150	110 125 160	70233 70234 70234

Backwater valve

Pipe flap valve

The dependable solution
for open end drainage pipes.

The self-actuating pipe flap valves prevent undesirable backwash into wastewater pipes in the event of backwater or high water levels. They are made entirely of polymer and so are 100 % corrosion-free. The pipe flap valves are available in various sizes from Ø 110 mm to Ø 1.000 mm.

Area of application

Pipe flap valves are used in wastewater without sewage, for example in seawater and freshwater environments. Here they serve as a backwater valve in horizontal pipes leading into chambers or outdoors.



Pipe flap valve

for connection to open end drainage pipes

Flap self-closing. Inlet/outlet for connection to PVC pipe according to EN 1451-1. KESSEL-Pipe Flap, manufactured from polymer, with free hanging self activating backwater flap. For connection to open end of pipe, gasketed inlet for push-fit connection to PVC drainage piping according to DIN 19534 and PE-HD piping according to DIN 19537.

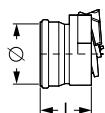


Illustration shows Ø 110 – Ø 200

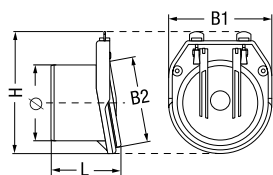


Illustration shows Ø 250 – Ø 638

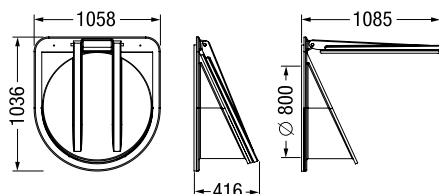


Illustration shows Ø 800

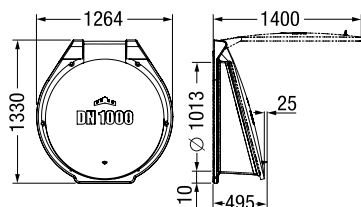


Illustration shows Ø 1000



Illustration shows Ø 160



Illustration shows Ø 250



Illustration shows Ø 800

Outer diameter Ø (mm)	DN in mm	H in mm	L in mm	B1 in mm	B2 in mm	Connection for pipe size Ø mm	Art. no.
Ø 110	-	-	120	-	-	-	79 100
Ø 125	-	-	136	-	-	-	79 125
Ø 160	-	-	142	-	-	-	79 150
Ø 200	-	-	170	-	-	-	79 200

Without connection coupling, connection according to EN 1451-1

Outer diameter Ø (mm)	DN in mm	H in mm	L in mm	B1 in mm	B2 in mm	Connection for pipe size Ø mm	Art. no.
Ø 250	250	400	220	345	280	-	79 250
Ø 315	315	450	225	400	410	-	79 300

With connection coupling*, for connection to all pipe materials

Outer diameter Ø (mm)	DN in mm	H in mm	L in mm	B1 in mm	B2 in mm	Connection for pipe size Ø mm	Art. no.
Ø 405	400	420	295	417	-	405	79 400
Ø 506	500	500	320	522	-	495/525	79 500
Ø 638	600	659	345	655	-	608	79 600
Ø 800**	-	-	-	-	-	-	79 800
Ø 1000**	-	-	-	-	-	-	79 1000

* With connection couplings it is possible to connect pipes of different diameters. Connection couplings are necessary where the difference in outer diameter is > 12 mm. Rights reserved for technical changes

** For wall installation

Grease Separator

EVERYTHING SPECIALISTS NEED TO KNOW

Why you need a grease separator

Areas of application

- Kitchen operations and large-scale catering establishments, e.g. restaurants, hotels, canteens, motorway service stations
- Butchers
- Slaughterhouses / Abattoirs
- Soap and stearin factories
- Cooking oil refineries
- Canning factories ... and many more

Statutory provision

Grease separators are required by law for fat, oil and grease contaminated wastewater streams from commercial kitchens.



Pipe blockages, corrosion and odour formation

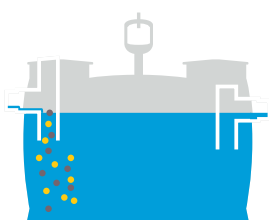
Fat, oil, grease and food residue entering the building's waste-water drainage pipe system results in build-up, blockage and odour issues which are difficult to handle. This results in corrosion or complete failure of the drainage pipe system.

Environmental protection

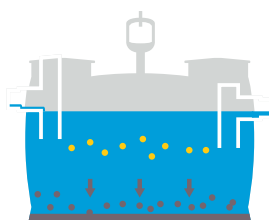
Grease separators prevent the environment from being contaminated by greasy wastewater and contribute to the trouble-free operation of sewage treatment plants.

Operation of a grease separator

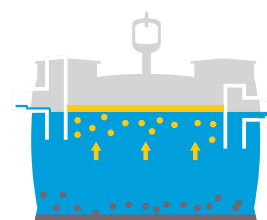
The operation of grease separators is based on the gravity principle. Lighter than water oil and grease float to the surface of the separator, heavier than water flood sludge settle to the bottom of the separator and the clean treated water leaves the separator via a protected outlet.



The contaminated wastewater is routed into the grease separator where it is slowed down by a deflector plate.



Substances that are heavier than water sink to the bottom and settle in the sludge trap.



Grease and oil rise to the top and form a grease layer that is retained between the inlet and outlet.

Connection to the drainage system with a lifting station or a hybrid lifting station.

Separator outlet below sewer level – lifting station required



- 1 Properly sized lifting station
- 2 Two 45° curved fittings
- 3 Wastewater calming section
- 4 Connected drainage fixtures

Separator outlet above sewer level- hybrid lifting station required



- 1 Properly sized hybrid lifting station
- 2 Two 45° curved fittings
- 3 Wastewater calming section
- 4 Connected drainage fixtures

Polymer grease separators

Polymer grease separator systems are an advantageous alternative to stainless steel solutions as they 100 % corrosion free.

The polyethylene material used is resistant to aggressive fatty acids – and therefore particularly durable. In addition to the statutory provision, we provide a 20-year warranty with regard to the leak tightness and structural safety of tanks and upper sections.

The wastewater must flow into the grease separator system with gravity. Grease separator systems whose water level is below the backwater level (see EN 752-1) or sewer level should be connected to a properly sized lifting station (shown as 1 in the illustration).

The wastewater pipes to the separator systems must have a gradient of at least 2 % (1:50) to prevent grease blockage. If this is not possible for constructional or operational reasons, and/or if longer pipes are necessary, suitable measures must be taken to prevent grease blockages and deposits. The transition from downpipes to horizontal pipes must be handled with two 45° curved fittings with a large radius. A wastewater calming section, the length of which corresponds to at least the 10-fold of the inlet pipe's nominal width in millimetres, must then be provided immediately before the inlet of the separator.

Discharge points, such as floor drains, must be equipped with odour traps and, if necessary, with sludge buckets that can be removed for cleaning.



Grease separators

EasyClean ground

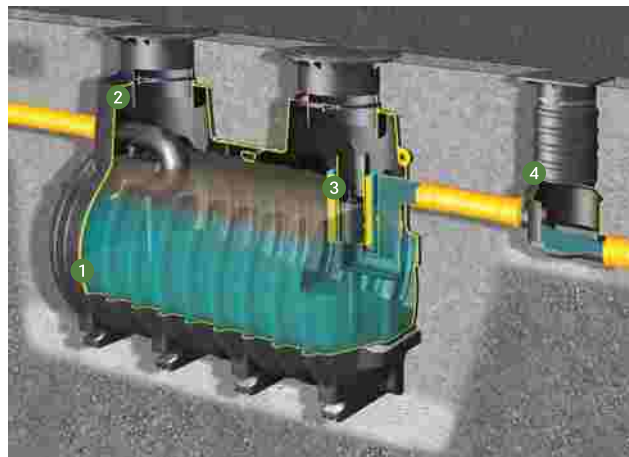
The space-saving solution for underground installation.

Underground installation outside the building is a safe and clean alternative to free-standing set-up. Here, we offer a wide range of grease separators with the EasyClean ground that combines the advantages of the EasyClean free with more usable operating space. Individual installation depths, continuous adaptation to the ground level and compensation for the ground covering settling are possible thanks to the telescopic polymer upper sections.



1 Grease separator 2 Height adjustable upper section 3 Sampling chamber

Different Disposal Options



1 Coalescence separator 2 Height adjustable upper section
3 Self-actuated closure lock 4 Sampling chamber

Coalescence and oil/fuel separators

EasyOil ground

The efficient solution for oil / fuel contaminated wastewater.

EasyOil is used to protect water bodies and sewer systems against contamination from mineral oil from wastewater sources such as in petrol stations, car washes, vehicle repair garages and industry.

EasyOil is available as a coalescence separator (Class I) or oil/fuel separator (Class II), and with the nominal sizes NS 3 to NS 15 (Class I) and NS 3 to NS 20 (Class II).

Emergency float switch

EasyOil is equipped with a self-actuated closure lock. This emergency system prevents the leakage of light liquids into the sewer pipe.

Vertically adjustable upper section

The vertically adjustable upper section of the EasyOil is continuously height-adjustable and tiltable through 5° – for optimum adaptation to the ground level and to compensate for the ground covering settling.

Polymer

EasyOil is the first series of polymer coalescence and oil/fuel separator systems on the German market with national technical approval. The polyethylene material used is resistant to bioethanol (E10) and biodiesel – and therefore particularly durable. In addition to the statutory provision, we provide a 20-year warranty with regard to the leak tightness, fitness for purpose and structural safety of tanks and upper sections.

Sonic Control

The automatic layer thickness measuring device SonicControl with ultrasonic sensor takes over the precise monitoring and reporting of the oil and sludge layer thickness in coalescence and oil/fuel separators. Operators can therefore monitor the actual volumes of oil and fuel inside the separator to determine the precise disposal date.

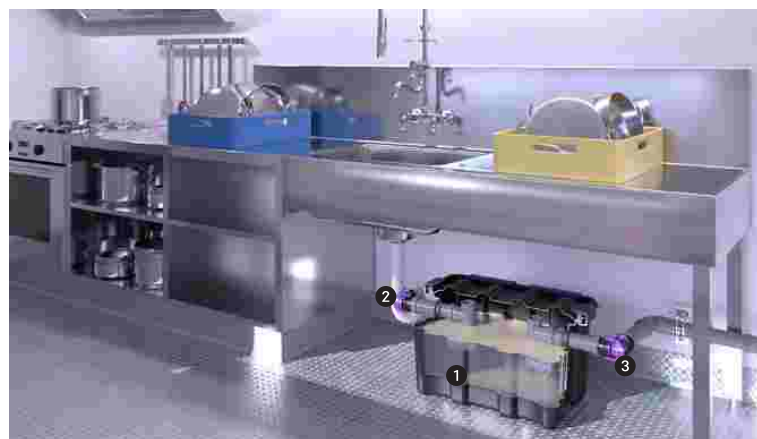
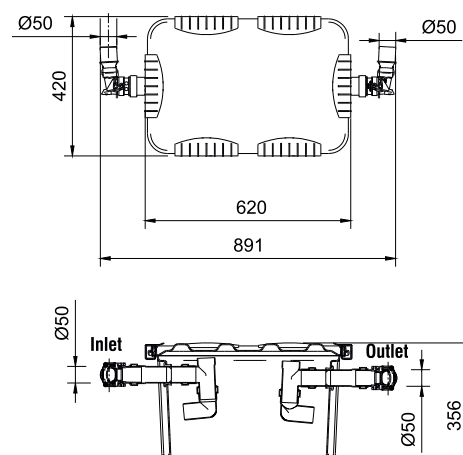
New

Grease separator

EasyClean free UnderSink

In the food truck, in the takeaway restaurant, in the shopping centre or in a small club: Installation of large central grease separators is not possible everywhere. If this is the case, and only small volumes of wastewater are produced, then it's a clear case for the EasyClean free UnderSink grease separator – optimised for free-standing set-up where space is limited.

Its low weight and compact size enable easy handling. Thanks to its 360° rotatable and vertically adjustable swivel connection, the tank is particularly convenient to remove. The EasyClean free UnderSink grease separator has been tested on the test bench with 0.7 l/s and is therefore ideally suitable for the wastewater discharge from a sink – efficient at a favourable price in TÜV-tested quality.



1 Grease separators 2 Inlet 3 Outlet



1 Grease separators 2 Lifting station

100 % corrosion-free

The EasyClean free UnderSink is 100 % made of polymer. That makes it resistant to aggressive wastewater and particularly durable.

100 % waterproof and odour-tight

The tank of the EasyClean free UnderSink grease separator is water and odour-tight. We vouch for this with our KESSEL guarantee: In addition to the statutory provision, we provide a 20-year warranty on the leak tightness, fitness for purpose and structural stability of tank.

Inspection window

An inspection window is available for optional installation on site for visual checking of the grease layer thickness.

Tool-free installation

KESSEL makes the installation particularly easy for you: You do not need any tools to install the EasyClean free UnderSink grease separator – which also applies to the disposal.



NUGREEN

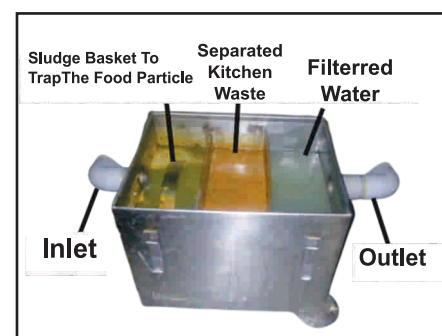
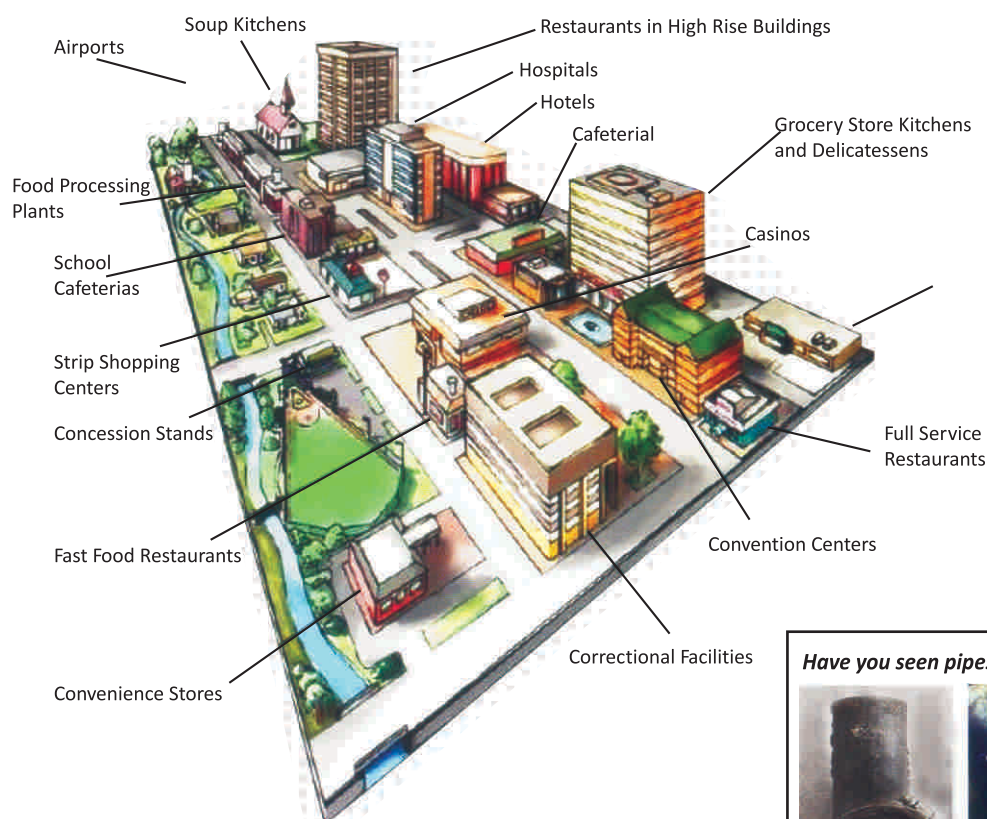
Building Technologies Pvt. Ltd.



SS Grease Trap



Are you one of these facilities!



Nugreen Building Technologies Pvt. Ltd.

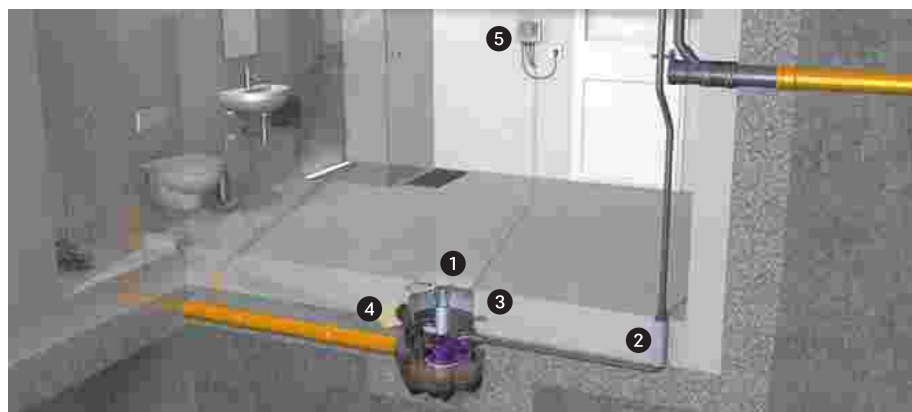
WASTEWATER LIFTING STATION

AQUALIFT F COMPACT

The compact version for complete basement drainage.

One for all: the Aqualift F Compact take over the complete base-ment drainage. The lifting station pumps the wastewater, even black water, into the sewer located above - even after a pipe burst or flooding - thanks to the floor drain integrated into the cover. the compact dimension allow for the straight forward installation or free - standing set - up of the Aqualift F Compact. It is controlled by the comfort control unit with self-diagnosis system SDS that is supplied ready for connection.

The Aqualift F Compact is available in two versions, either for freestanding set-up or for floor slab installation (available with black or recessed tileable cover). In addition, each device is available as a mono or duo lifting station.



① Lifting station ② Pressure pipe set ③ Extension section
④ Gasket set ⑤ Control unit

Floor slab installation

The Aqualift F Compact is almost invisible if it is installed in the floor slab. The integrated drain in the cover handles basement surface water even in the event of a pipe burst or flooring, the Aqualift F Compact continually pumps away the wastewater, keeping the basement dry.

Installation in waterproof concrete

The Aqualift F Compact is almost invisible if it is installed in the floor slab. The integrated drain in the cover handles basement surface water even in the event of a pipe burst or flooring, the Aqualift F Compact continually pumps away the wastewater, keeping the basement dry.

Maximum safety

The intelligent control unit with integrated self-diagnosis system SDM and battery buffering continually monitors all electrical components and keeps an electronic operating log which can be read out.



① Lifting station ② Control unit ③ Pressure pipe

LIFTING STATION AQUALIFT F COMPACT MONO / DUO

for free-standing installation

Z-53.2-484 Max 2 WC connections

Tank volume : 40 liters

Pump volume : 20 liters

Polyethylene storage chamber for free - standing

Installation, with lateral inlet Ø 110.

Installation area 700 x 700 mm.

Pump

Single or twin removable SPZ PUMP (S) with macerator, pressure sensor controlled, with integrated backwater flap.

Control unit

with SDS control unit (Self-diagnosis system) for fully automatic pump control, splash water protected (IP 54), wall mounted.

Pressure connection: 1 1/2 inch outer thread or pressure pipe Ø 40 mm for PVC glued connection or pressure pipe set (Art. no. 28 040).

Power cable length: 5mm

Note : A ventilation pipe must be provided for on site.



Illustration shows Mono version 28 717

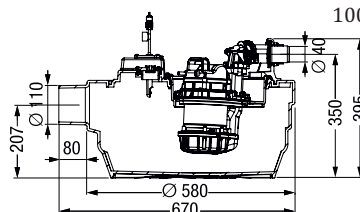


Illustration shows Duo version 28 718

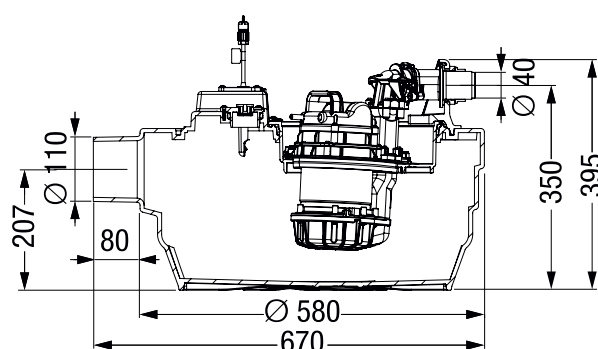
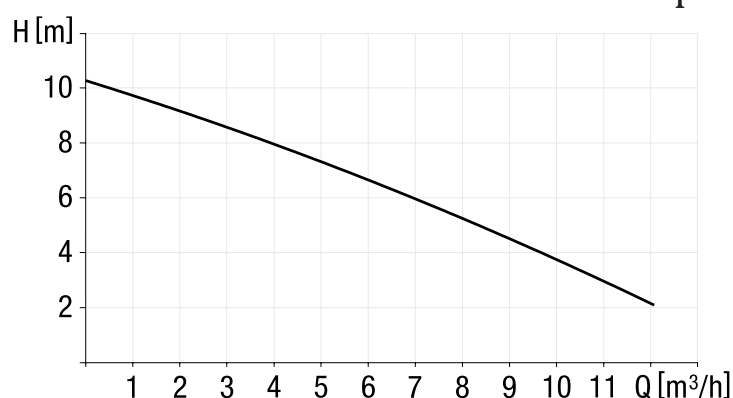
Mono version with one pump

SPZ pump	Voltage	Art. no.
1000-S3	230 V	28 717
1000-S3 resistant	230 V	28 717 C

Duo version with two pumps

SPZ pump	Voltage	Art. no.
1000-S3	230 V	28 718
1000-S3 resistant	230 V	28 718 C

Pumping capacity



Pump type

Pump type	Current type	Voltage	Current	Power P1/P2	RPM	Motor Protection	Pumping height	Pumping capacity
SPZ 1000-S3-50%*	Alternating current	230 V	5.2 A	1.2kW / 0.69kW	2800 min ⁻¹	Integrated	10 m	11.5 m³/h
SPZ 1000-S3-50% resistant	Alternating current	230 V	5.2 A	1.2kW / 0.69kW	2800 min ⁻¹	Integrated	10 m	11.5 m³/h

LIFTING STATION MINILIFT S

The Minilift S for wastewater without sewage makes everything possible.

New

Small in size but great possibilities: The plug-in ready Minilift S lifting station for restricted use is suitable for the disposal of wastewater from individual drainage objects, such as a wash basin, dishwasher or shower.



Together with the grease separator UnderSink the Minilift S creates a perfect team for small kitchens.

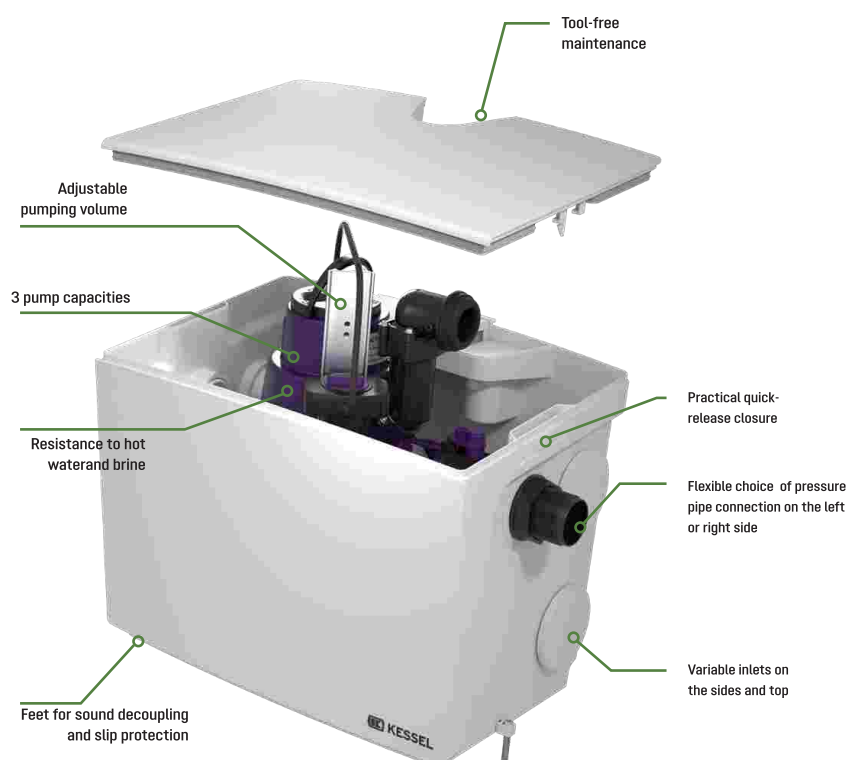


A clean matter: The minilift S is a practical solution for washing machines and wash basin in laundry rooms.

A talented solution for the office: The Minilift S can easily find a place in small office kitchens.



The Minilift S Plays out its functional strengths in utility rooms. A water softener, backwash filter or heating system can be connected without any problems.



The Minilift S is ideal for renovations in small bathrooms next to a hobby room or in a workshop.

Minilift S lifting station

for free-standing installation

New

The plug-in ready Minilift S lifting station for restricted use is suitable for the disposal of domestic wastewater and ideal for connecting a shower, bathtub, washbasin, sink, dishwasher or washing machine.

Type of wastewater: wastewater without sewage

Installation situation: free-standing set-up

Version:

Type of system: single station

Pump control: float switch

Backflow preventer: integrated

Resistant:

- Resistant to saline media,
- Wastewater from softening units and
- Wastewater containing condensate from heating systems

Pressure pipe connection options:

1 1/2" thread, PVC adhesive connection, click adapter

Ventilation: activated carbon filter

Cable length: 5 m

Condition as supplied: plug-in ready

- Accessories: page 134 – 141

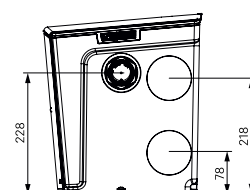
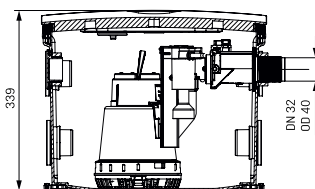
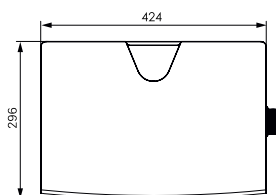
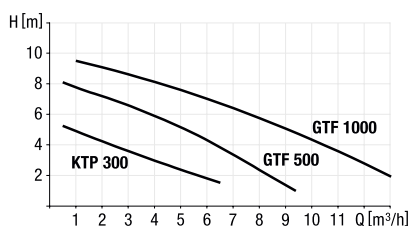


Fig.: Article 28561

Pump	Voltage	Art. no.
Submersible pump KTP 300		
KTP 300	230 V	28 561
KTP 300 resistant	230 V	28 561C
Submersible pump GTF 500		
GTF 500	230 V	28 562
GTF 500 resistant	230 V	28 562C
Submersible pump GTF 1000		
GTF 1000	230 V	28 563
GTF 1000 resistant	230 V	28 563C

Pumping capacity



Type Tested and Monitored
www.tuv.com
ID 1111241937

CE DIN EN 12050-2

Always the right choice: ☐ ☐ ☒ ☐
kessel.com/smartselect

Pump type	Power P1/P2	Power supply	Current	RMP	Plug	Cable length	Pumping height	Pumping capacity
 KTP 300	0.34 kW / 0.21 kW	230 V ~ 50 Hz	1.6 A	2800 min	Schuko earthed safety plug	5 m	6 m	max. 8 m³/h
 KTP 300 Resistant	0.34 kW / 0.21 kW	230 V ~ 50 Hz	1.6 A	2800 min	Schuko earthed safety plug	5 m	6 m	max. 8 m³/h
 GTF 500	0.6 kW / 0.36 kW	230 V ~ 50 Hz	1.6 A	2800 min	Schuko earthed safety plug	5 m	8 m	max. 10 m³/h
 GTF 500 Resistant	0.6 kW / 0.36 kW	230 V ~ 50 Hz	1.6 A	2800 min	Schuko earthed safety plug	5 m	8 m	max. 10 m³/h
 GTF 1000	1.27 kW / 0.73 kW	230 V ~ 50 Hz	1.6 A	2800 min	Schuko earthed safety plug	5 m	10 m	max. 14.5 m³/h
 GTF 1000 Resistant	1.27 kW / 0.73 kW	230 V ~ 50 Hz	1.6 A	2800 min	Schuko earthed safety plug	5 m	10 m	max. 14.5 m³/h

LIFTING STATION

MINILIFT F

The small version with the powerful macerator SharkTwister.

Compact and also suitable for black water: the Minilift F for free-standing set-up drains the toilet and other sanitary units in rooms below the backwater level or without sufficient slope to the next wastewater collecting pipe. The small lifting station chops faeces and toilet paper reliably with the powerful high-quality macerator SharkTwister.

Powerful macerator SharkTwister

The built-in stainless steel pump with the powerful high-quality macerator reliably chops faeces and toilet paper - thus providing maximum operational safety.

Intelligent control technology

The SharkTwister is controlled by intelligent control technology with an acoustic alarm function - without the need for a separate control unit.

Straightforward maintenance

The pump is integrated ready to plug in without the help of an electrician and can be removed for maintenance in no time at all.

COMPACT LIFTING STATION MINILIFT F

for free standing installation in frost protection rooms



Voltage

230 V

Art. no.

28 520

EN 12050-3

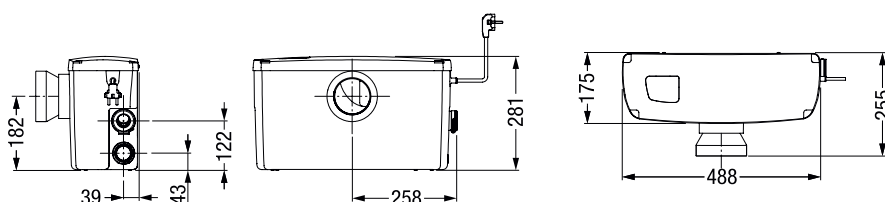
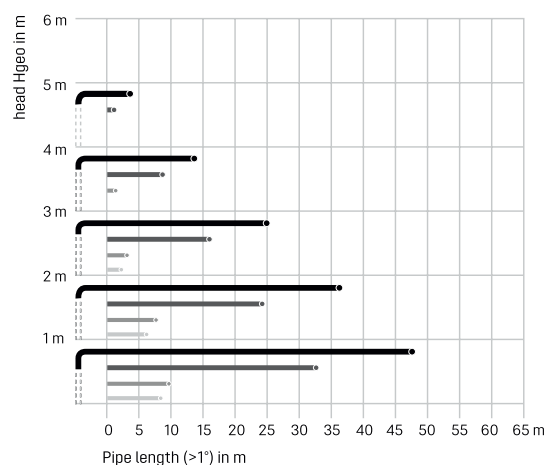
Plug-and-play sewage lifting station with macerator for wastewater disposal from a single toilet.

For free-standing set-up.

With pneumatic level control, with activated carbon filter, interior electronics separate from

wastewater tank-easy, odour free maintenance

Power cable length: 1.6m



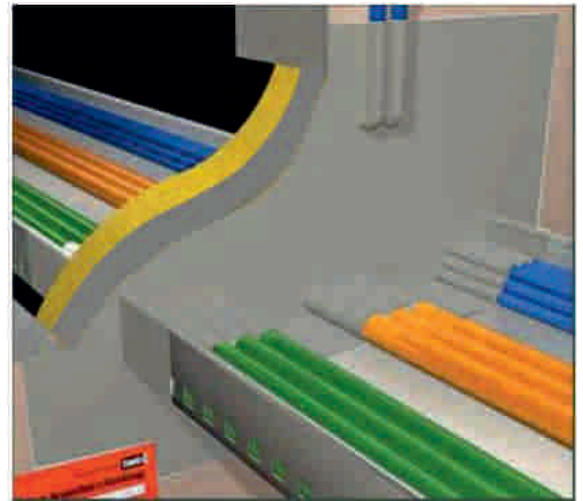
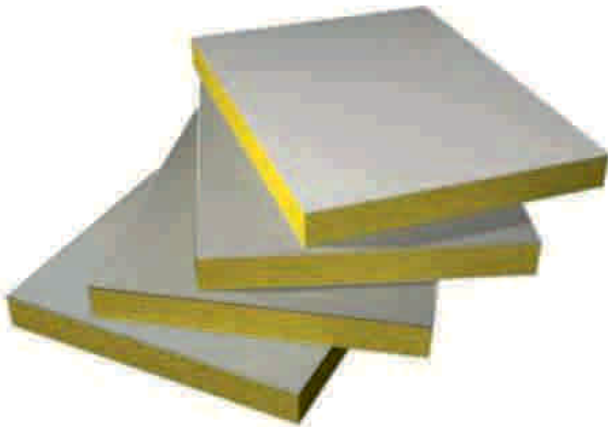


FIREX CABLE FIRE STOP BARRIER FM 71 + FB 250 HYBRID COMBO SYSTEM

(A) Firex FB 250 Mineral Wool Board

Firex FB 250 is a “High Density” mineral wool based board covered with Firex EC43 which foams up in case of fire. By the impact of heat the coating builds up a cartoon foam which isolates materials additionally against the impact of heat.

Firex FB 250 is used as building material for approved cable penetrations.



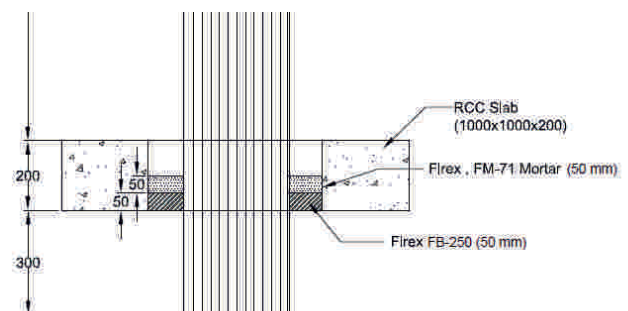
Minimum Density : $> 120 \text{ Kgs/m}^3$
size : $1200 \times 600 \times 50 \text{ mm}$

Boards are coated with Firex EC-43, 2 Hour rated fire suppression coating. (Independently - tested & certified)

Firex FM -71

Firex FM 71 Barrier is a inorganic, Expanding type, Heat absorbing Firestop Barrier designed to seal cable & pipe penetrations through walls, floors & ceilings and provide upto 2 hour firestop protection, to compartment walls and floors.

When mixed with water it can be poured or trowelled into service penetration openings preventing the passage of flame, smoke and toxic gases for periods of up to 2 hours





FOR CREATING FIRE STOPS IN CABLE PENETRATIONS, Through walls & floors

→ Advantages of both mortar & Mineral Wool based firestop barriers

- ★ CBRI Tested - 2 hours fire rated.
- ★ Economical
- ★ Halogen free
- ★ Reduced smoke properties
- ★ Chemical & weather resistant system, comprises of high density mineral wool non-combustible boards and firex FM-71 Firex sealing mortar, Firex FBS 73 Sealant blankets.
- ★ Easy to retrofit/pass new cables through existing barriers & re install.
- ★ Tested & certified to meet IS: 12458:2019, ASTM 814, UL 1479

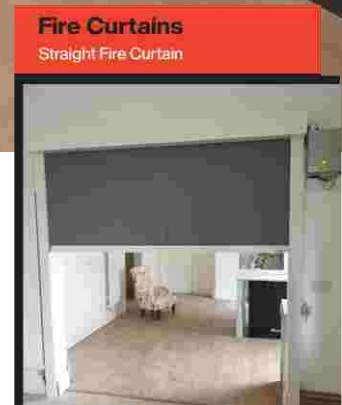
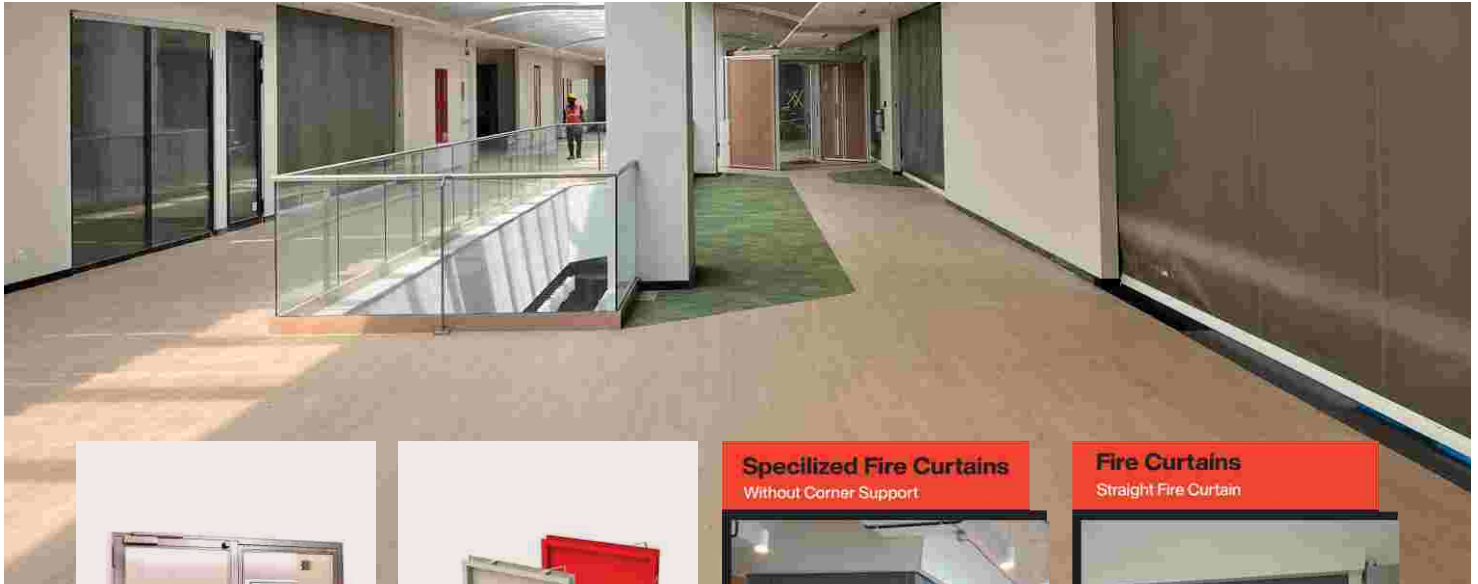


Specifically designed for sealing around cable & service penetrations in walls and below panels. Firex FB 250 System consists of very high density fire & heat resistant mineral wool boards, water resistant, Firex FM-71, affixed with Firex expanding sealant, which transforms into a hard barrier during a fire to prevent the passage of fire and smoke and the transfer of heat.

COMPONENTS

- (A). Firex FB 250 Mineral Wool Board - 50mm Pre-coated with Firex EC 43 "2 hour rated" firestop Coating, Density > 120 Kgs/m³.
- (B). Firex FM-71 TOP layer 50mm.
- (C). Firex Inorganic Elastomeric - Firex FBS 73 intumescent Flexible Firestop Sealant for application on gaps and finishing the board surface.

Fire Compartmentation Specialist since 2013



System Tested to BSEN 1634 | UL 10 D

• 1000+ Projects • 8100+ Fire Curtains Installed

Our Esteemed Clients



Fire & Smoke Curtains | Fire Rated Doors | Fire Barriers | Evac Chair | Cable Protection
Fire rated Glazing | Fire rated partition | Fire rated Ceilings | Structural Steel Protection | Intumescent Paints & Sealants

www.firecurtains.in | +91 9318357072 | info@firecurtains.in

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“Successfully Completed 5000+ Valuable Clients

Real Estate Sector



Hospitality Sector



Institutions Sector



Retail Sector



Corporate Sector



Health Sector



Other Sector





Jio World Convention Centre, BKC



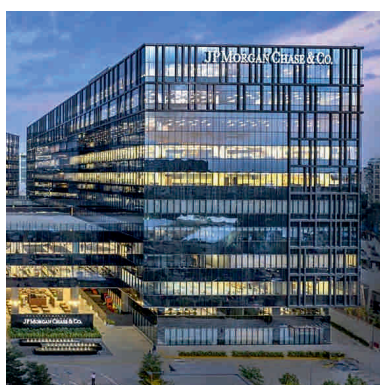
Indraprastha Apollo Hospitals, Delhi



DLF Cybercity, Gurgaon



Oberoi Realty Delhi-NCR



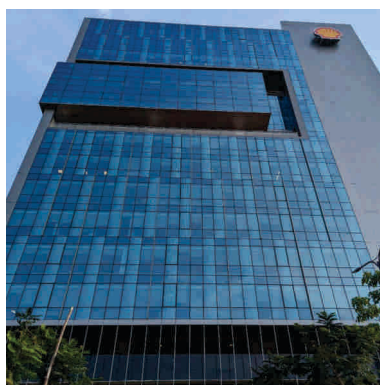
JPMC, Pan India



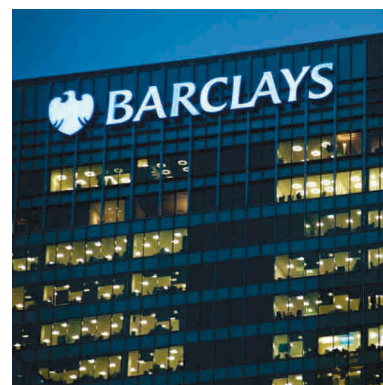
Wells Fargo's



GD Goenka International School, Kolkata



Shell Corporate office, Chennai



Barclays, Delhi



Boeing PAN India



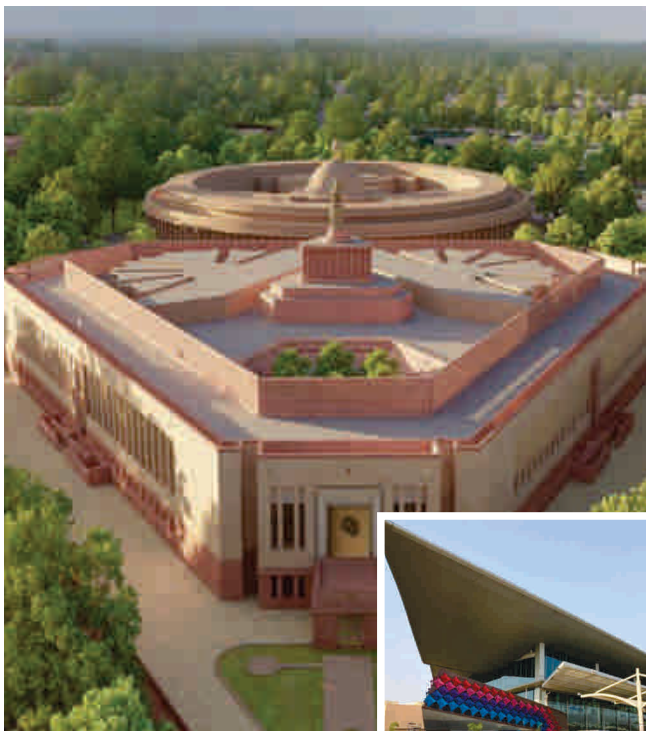
Retail Chains, Pan India



Microsoft, Pan India

PROJECT REFERENCES

Central Vista, New Delhi



Google, Pan India



Domestic & International Airports, Pan India



Maruti Suzuki Manufacturing Plant Kharkhoda, Haryana



The Taj Hotels , Pan India

Type of Project & Applications of Our Range

CORPORATE FIT OUTS

Internal Drains for Bathrooms

- SS 304 Shower Channels
- Floor Drains
- Special Cost effective Globe Series From Kessel Germany available on request

External Drains Linear or Floor Drains

- Refuge Area-A15
- Terrace/Balcony/Roof Drains-A15
- Basement Ramp Loading Areas-B125, C250
- Fire Tender Areas D 400

Wastewater Lifting Stations

(When core cuts not allowed in the floor/Gravity flow not possible and wastewater needs to be pumped)

- With sewage for toilets
- Without Sewage for kitchen, Pantry
- Can be installed after grease separator to pump treated water to STP/Main Drain or nearest Sump.

Separators

- Grease separators (Grease trap) Models vary from 0.25IPS to 50LPS depending upon whether it for an under sink installation in pantry areas or as big units as centralised with a cleaning efficiency of once a month. HDPE models come with 20 years Guarantee while SS ones comes with 2 year warranty

SS 304/316 Hygienic Drains

- For Kitchen areas comes with Foul air traps full length SS strainers for more sludge retention various grating options available like Anti Skid Mesh, Mesh Ladder, Solid, Etc

Fire Curtains For Fire Compartmentation in offices and Lift Lobbies



Type of Project & Applications of Our Range

HOTELS

External Drains Linear or Floor Drains

- Swimming Pool-A15
- Terrace/Balcony Drains-A15
- Basement Ramp Loading Areas-B125, C250
- Fire Tender Areas D 400

Manhole Cover

- Internal A15
- External A15
- External B125, C250, D400 Depending upon requirement



Internal Drains for Bathrooms

- SS 304/316 Shower Channels
- Floor Drains
- SS 316 Linearis Shower channel for Presidential Suites

Wastewater Lifting Stations

(When core cuts not allowed in the Floor/Gravity Flow not possible and wastewater needs to be pumped)

- With Sewage for toilets
- Without Sewage for Kitchen, Pantry
- Can be installed after Grease separator to pump treated water to STP/Main Drains or nearest sump.

Backwater Protection (NRV/Backflow Preventer)

- Depending upon diameter and area of application we have backwater protection systems from 50mm to 1000mm diameter.

Separators

- Grease separators (Grease trap) Models vary from 0.25LPS to 50 LPS depending upon whether it for an
- Under sink installation in pantry areas or as big units as centralised with a cleaning efficiency of once a month.
- HDPE models come with 20 years guarantee while SS ones comes with 2 year warranty

SS 304/316 Hygienic Drains

- For Kitchen areas Comes with Foul Air Traps Full length SS strainers for more sludge retention various Grating options available like Anti skid mesh, Mesh Ladder, Solid, etc.

Fire Curtains For Fire Compartmentation For Lift Lobbies

Type of Project & Applications of Our Range

PRIVATE RESIDENCES AND RESIDENTIAL TOWERS

External Drains Linear or Floor Drains

- Swimming Pool-A15
- Terrace/Balcony Drains-A15
- Basement Ramp Loading Areas-B125, C250
- Fire Tender Areas D 400

Manhole Cover

- Internal A15
- External A15
- D400 depending upon requirement



Internal Drains for Bathrooms

- SS 304/316 Shower Channels for master bedrooms
- Floor Drains/Wall drains
- SS 316 Linearis Shower channel for Presidential Suites
- SS 304 Linear Channels for Public Washrooms

Wastewater Lifting Stations

(Wastewater needs to be pumped from Basement)

- With Sewage for toilets
- Without Sewage for Kitchen, sinks
- Can be installed after Grease separator to pump treated water to STP/Main Drains or nearest sump.

Backwater Protection (NRV/Backflow Preventer)

(Depending upon diameter and area of application)

- We have Backwater Protection systems from 50mm to 1000mm diameter.

Separators

- Grease separators (Grease trap) Models vary from 0.25LPS to 50 LPS depending upon whether it use for an under sink installation in pantry areas or as big units as centralised with a cleaning efficiency of once a month.
- HDPE models come with 20 years Guarantee while SS ones comes with 2 year warranty
- Oil separators can be used for car parks, near Generator/ DG Sets. Used for light liquids like Oil/Artificial Grease can be installed above the ground or below the ground.

S 304/316 Hygienic Drains

- For Kitchen areas comes with foul air traps full length SS strainers for more sludge retention various grating options available like anti skid mesh, Mesh, Ladder, Soild, Etc

Fire Curtains For Fire Compartmentation For Lift Lobbies

Type of Project & Applications of Our Range

COMMERCIAL/ RETAIL PROJECT

External Drains Linear or Floor Drains

- Swimming Pool-A15
- Terrace/Balcony Drains-A15
- Basement Ramp Loading Areas-B125, C250
- Fire Tender Areas D 400

Manhole Cover

- Internal A15
- External A15
- D400 depending upon requirement

Internal Drains for Bathrooms

- SS 304/316 Shower Channels for master bedrooms
- Floor Drains/Wall drains
- SS 316 Linearis Shower channel for Presidential Suites
- SS 304 Linear Channels for Public Washrooms

Wastewater Lifting Stations

(Wastewater needs to be pumped from Basement)

- With Sewage for toilets
- Without Sewage for Kitchen sinks
- Can be installed after Grease separator to pump treated water to STP/Main Drains or nearest sump.

Backwater Protection (NRV/Backflow Preventer)

(Depending upon diameter and area of application)

- We have Backwater Protection systems from 50mm to 1000mm diameter.

Separators

- Grease separators (Grease trap) Models vary from 0.25LPS to 50 LPS depending upon whether it use for an under sink installation in pantry areas or as big units as centralised with a cleaning efficiency of once a month.
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SS 304/316 Hygienic Drains

- For Kitchen areas comes with foul air traps full length SS strainers for more sludge retention various grating options available like anti skid mesh, Mesh, Ladder, Solid, Etc

Fire Curtains For Fire Compartmentation For Lift Lobbies



Type of Project & Applications of Our Range

LIVE KITCHENS

Wastewater Lifting station (wastewater needs to be pumped from basement to upper floor)

- With Sewage for Toilets-
- Without Sewage for Kitchen, Pantry
- Can be installed after grease separator to pump treated water to STP or nearest sump.

Seperators-Grease separators (Grease trap)

- Preferred Model Kessel Grease Separor NS-0.7 Under sink.
- Nugreen SS 304 NGT Series
- Model vary from 0.25LPS to 50LPS depending upon wheather it for an under sink installation in pantry reas or as big units
- HDPE big centralised Grease Separator can be designed with a cleaning efficiency of once in a month.
- HDPE models come with 20 years Guarantee while SS ones comes with 2 years warranty

Separators-Oil Separator

- Oil Separators can be used for car parks, near Generator/ DG Sets. Used for light liquids likes Oil/Artificial Grease.
- Can be installed above the ground or below the ground.

Fire Curtains For Fire Compartmentation



Type of Project & Applications of Our Range

DATA CENTRES

External Drains Linear or Floor Drains

- Roof and terrace area-A15 loads
- Basement Ramp Loading Areas-B125, C250 loads
- Fire Tender Areas D 400 loads
- Near Entrance Gate -C250/D400 loads

Manhole Cover

- Internal A15
- External A15
- External B125, C250, D400 depending upon requirement

Internal Drains for Bathrooms

- SS 304/316 Shower Channels
- Floor Drains
- SS 316 Linearis Shower channel for Presidential Suites

Wastewater Lifting Stations

(When core cuts not allowed in the Floor/Gravity flow not possible and wastewater needs to be pumped)

- With Sewage for Toilets
- Without Sewage for Kitchen, Pantry
- Can be installed after Grease separator to pump treated water to STP/Main Drains or nearest sump.

Backwater Protection (NRV/Backflow Preventer)

- Depending upon diameter and area of application we have backwater protection systems from 50mm to 1000mm diameter.

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SS 304/316 Hygienic Drains

- For Kitchen areas comes with foul air traps full length SS strainers for more sludge retention various grating options available like anti skid mesh, Mesh, Ladder shape, Solid Grating, Etc

Fire Curtains For Fire Compartmentation



Type of Project & Applications of Our Range

INDUSTRIAL/WARE HOUSES

External Drains Linear or Floor Drains

- Swimming Pool-A15
- Terrace/Balcony Drains A-15
- Basement Ramp Loading Areas-B125, C250
- Fire Tender Areas D 400-Polymer concrete/SS-304/316

Manhole Cover

- Internal A15
- External A15
- External B125, C250, D400 depending upon requirement

Internal Drains for Bathrooms

- SS 304/316 Shower Channels
- Floor Drains
- SS 316 Linearis Shower channel for Presidential Suites

Wastewater Lifting Stations

(When core cuts not allowed in the Floor/Gravity flow not possible and wastewater needs to be pumped)

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SS 304/316 Hygienic Drains

- For Plant areas Linear/Square drains comes with Foul Air Trap Full Length SS strainers for more sludge retention Various Grating Options available like anti skid mesh, Mesh, Ladder Shape, Solid Cover etc.
- Customization as per Industry Requirement.

Fire Curtains For Fire Compartmentation



Type of Project & Applications of Our Range

AIRPORTS

External Drains Linear or Floor Drains

- Airports Hanger Area-up to E600/F900 Load
- Basement Ramp Loading Areas-B125, C250
- Fire Tender Areas D 400
- SS304/316 Floor drains

Manhole Cover

- Internal A15
- External A15
- External B125, C250, D400 depending upon requirement

Internal Drains for Bathrooms

- SS 304/316 Shower Channels
- Floor Drains
- SS 316 Linearis Shower channel for Presidential Suites

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(When core cuts not allowed in the Floor/Gravity flow not possible and wastewater needs to be pumped)

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- Customization as per Industry Requirement.

Fire Curtains For Fire Compartmentation



Type of Project & Applications of Our Range

HEALTH CARE & PHARMACEUTICAL

External Drains Linear or Floor Drains

- Terrace/Balcony/Roof Drains-A15
- Basement Ramp Loading Areas-B125, C250
- Fire Tender Areas D 400-Polymer concrete/SS-304/316

Manhole Cover

- Internal A15
- External A15
- External B125, C250, D400 depending upon requirement

Internal Drains for Bathrooms

- SS 304/316 Shower Channels
- Floor Drains
- SS 316 Linearis Shower channel for Presidential Suites

Wastewater Lifting Stations

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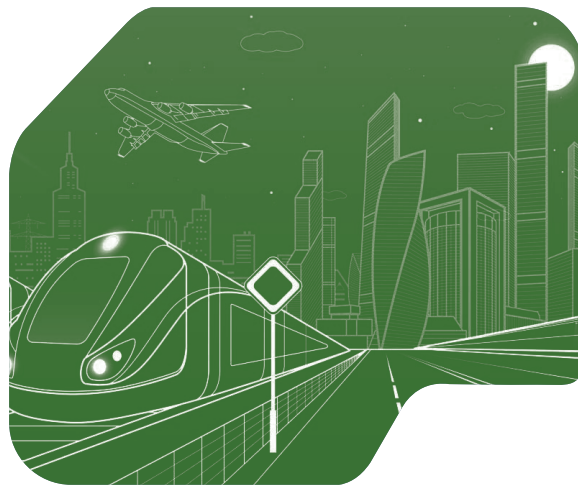
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- Customization as per Industry Requirement.





NUGREEN BUILDING TECHNOLOGIES PVT. LTD.



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**Bathroom Drains | Kessel Lifting Station | Kessel Backwater Protection | Kessel Grease Separator
MEA Drains | SS Manhole cover | Kitchen Drains | Fire Curtains**

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