

Made in Korea

Ver. 2019. 06

www.miraeindustry.com

Sewer Appurtenances / Building Materials

MIRAE INDUSTRY PRODUCTS



MIRAE INDUSTRY CO., LTD.

HEAD OFFICE

52, Saneopdanji 6-ro, Eomo-myeon, Gimcheon-si, Gyeongsangbuk-do, Republic of Korea(39536)

Tel : +82-70-4405-1280

E-mail : export@miraeindustry.com www.miraeindustry.com

3 BRANCH OFFICES



Part1. Sewer Appurtenances

OUR INNOVATIVE PRODUCTS



add convenience and flexibility to your work.

The height of the products can be easily adjusted in various situations that can occur at the work site. This feature also saves on time and cost, adding to work efficiency.



make the work solid and precise.

Even when height and fine angle adjustment is necessary, they can be well adjusted according to the needs of the work site, helping precise installation.



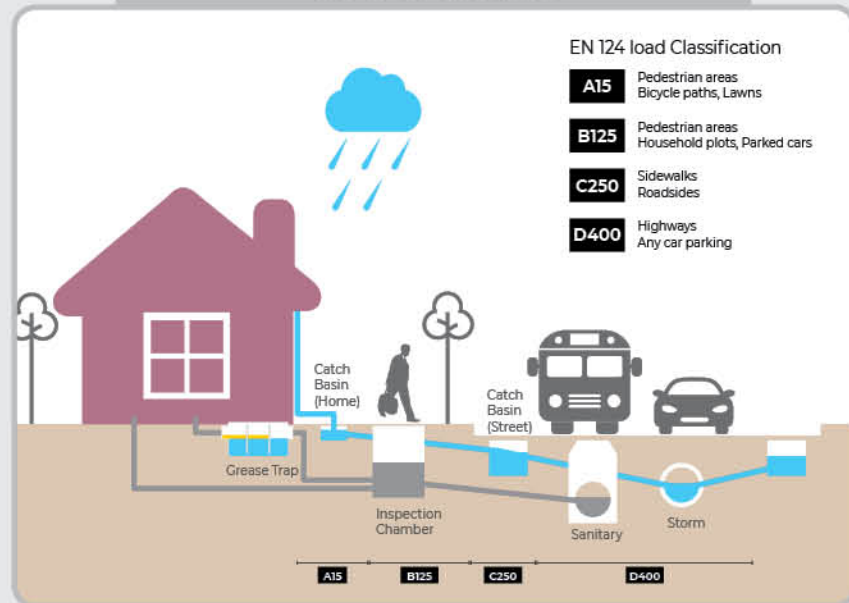
ensure the tightness of the work, allowing excellent functionality.

To effectively prevent water leakage, it is important to accurately set the angle following the pipes and to ensure tightness with other products.

Our products are ideas that paid attention even to the smallest details with each boasting of excellent constructability.



HOW IT WORKS



* Note that the actual size of product are smaller than what is shown here.



Grease Trap M-43(D) _ p. 4



Grease Trap M-43(E)/(F) _ p. 6



Inspection Chamber M-3 _ p.8



Catch Basin M-44 _ p. 10, 11



Catch Basin (Home use) M-37 _ p. 12

New Product

Grease Trap M-43(D)



Grease Trap M-43(D)

- The grease trap is a device that filters FOG (fat, oil, and grease) discharged from restaurants and kitchens. When the wastewater produced in the food treatment process passes through this Grease Trap, it separates the grease using buoyancy created by the difference in oil and water density.
- This product prevents the oil from flowing into the sewer, which causes the reflux phenomenon. It can also save on costs related to repair work and prevent wastewater from flowing into the sewer and causing environmental pollution.
- The polluted water is purified, and the following three elements are removed when it passes the grease trap. **The filtered <Food wastes> <Floating matters (oil)> <Sediment (sludge)>**

FEATURE

- Air ventilator integrated type that can be easily installed
- Gas vent embedded for efficient gas relief
- Available for the indoor and outdoor use
- Simple and smart design with PP material
- Prevent pipe clogging by grease accumulation and food and backflow
- All removable components to ease cleaning

- Grease Trap (D)** Grease capacity : 61L(16gallons)

Capacity

Grease Trap (D)	Total capacity	Water capacity	Grease capacity	Heat-resistant temperature
	140L	72L	61L	110°C

Above is our test standard, it might be changed according to the installation site and terms of use

Product details

COVER SELECTION

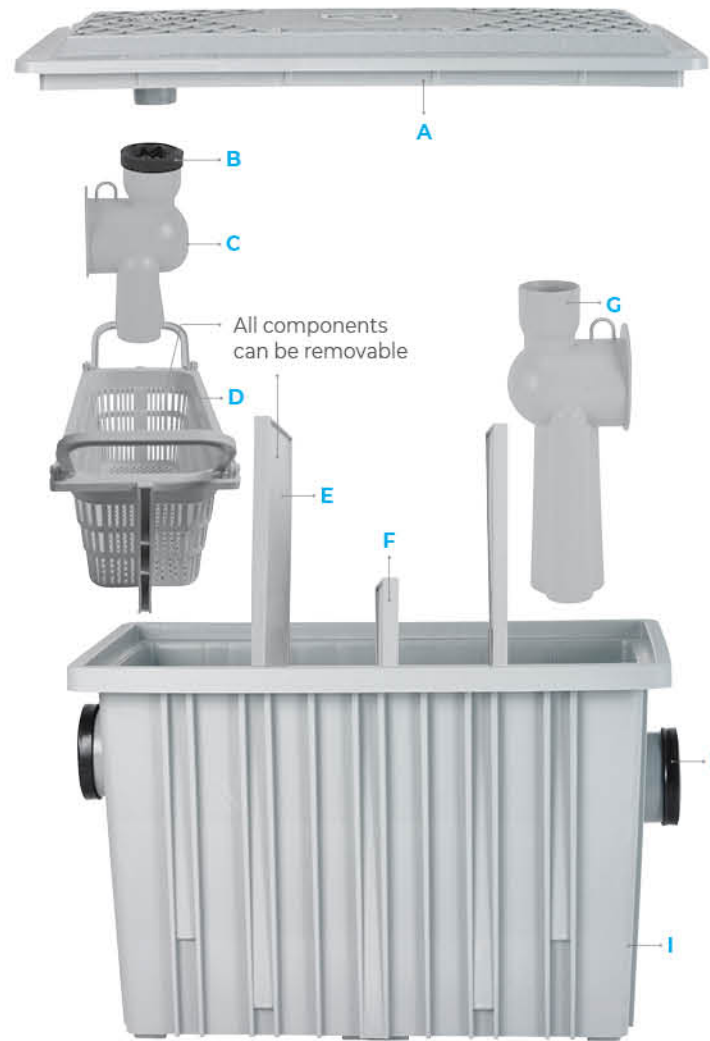
ITEM	Part #	Description	Weight	Load Class
A	1606	Cover form Cast Iron (Ductile)	-	-
(select 1)	1108	Cover form PP	6,915g	A15

BODY COMPONENTS

ITEM	Part #	Material	Size	Description	Weight
B	6403	Rubber	75Φ	Air intake pipe seal	75g
C	4108	PP	sole	90° Elbow Connected Inlet - with air intake hole	370g
D	4109	PP	sole	Foodwaste Basket	635g
E	4111	PP	L	Baffle (2)	1,545g
F	4112	PP	S	Baffle (1)	890g
G	4110	PP	sole	90° Elbow Connected Outlet - with gas release hole	485g
H	6404	Rubber	100Φ	Pipe Sealing Gasket - Inlet, Outlet	155g
I	3109	PP	sole	Body	11,920g

FURTHER ACCESSORY

ITEM	Part #	Material	Description	Weight
J	6106	PP	Inlet expander 50Φ-100Φ	235g
	6105	PP	Inlet expander 75Φ-100Φ	265g

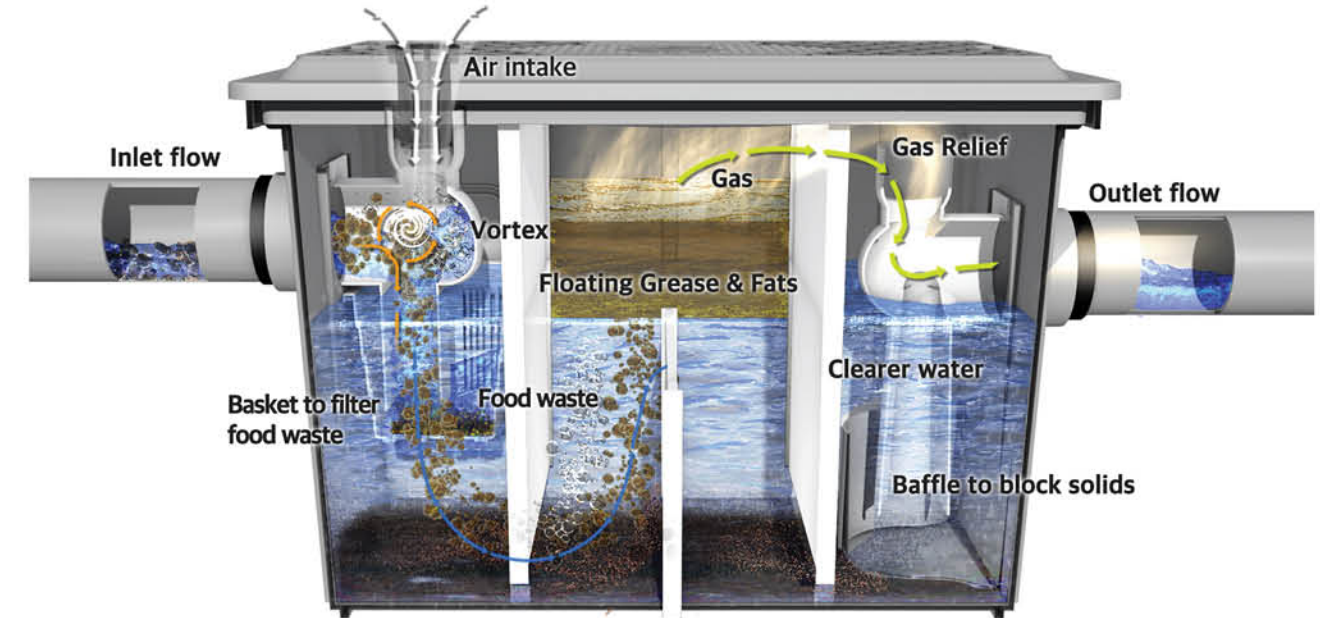


All components can be removable



Overall Specification

Model	Set #	Load Class	Weight kg(Lb)	Tank size mm(inch)	Pipe size φ(inch)
M-43(D)	B30N12	A15 (outdoor)	24.5 (54)	850(L) x 500(W) x 600(H) (33 1/2" x 19 3/4" x 23 5/8")	φ100 (4")



Tank Size (mm)	A (Length)	B (Width)	C (Height)	D	E (D)	F	G	H
M	850	500	600	145	125	330	185	290

• Extension section NEW

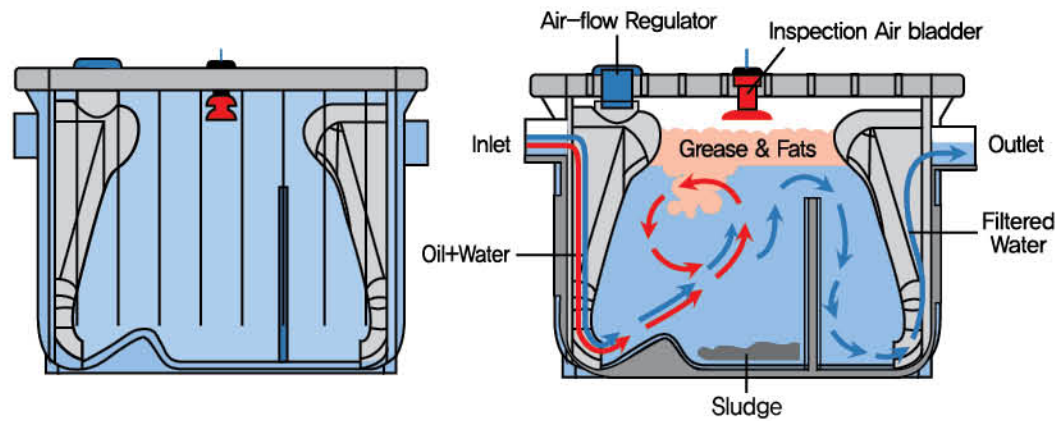


Necessity of installation

(ex) The pipe clogged with grease



Grease Trap M-43(E) / M-43(F)



- Air-intake-hole installed on the cover facilitates the flow of the water. Also, it helps F.O.G(Fat, Oil, Grease) can be separated fast.
- For adjusting the amount of the air coming in, the user can adjust the air-intake depending on the circumstances.
- Sight glass installed on the cover helps the user to know when to separate the F.O.G(Fat, Oil, Grease). This prevents F.O.G from overflowing.
- Locking levers on the edge of the cover make the cover to be fixed tightly with the body. The cover is easily detachable from the body by using the levers.
- Rubber ring inside the cover is attached. It keeps the occurred gas and odor from coming out of grease trap.
- A baffle in front of the outlet makes the debris like foodwaste filtered.
- As the whole material is reinforced plastic, the product is strong at impact and damages. Unlike stainless product, there is no corrosion and rusts. It can be used semi-permanently.

- **Grease Trap (E)** Grease capacity : 16L (4.2 gallons)
- **Grease Trap (F)** Grease capacity : 9L (2.3 gallons)

Capacity

Capacity	Model Name	Grease Trap(E)	Grease Trap(F)
Total capacity		64L	40L
Water capacity		47L	30L
Grease capacity		16L(4.2gallons)	9L(2.3 gallons)
Heat-resistant temperature		110°C	

Above is our test standard, it might be changed according to the installation site and terms of use

Product details

COVER SELECTION			
ITEM	Description	Load Class	
A	Cover form PP	A15	

BODY COMPONENTS			
ITEM	Material	Size	Description
B	PP	-	90° Elbow Connected Inlet - with air intake hole
C	PP	-	Baffle
D	PP	-	90° Elbow Connected Outlet - with gas release hole
E	ABS	-	Inspection Air Bladder
F	PC	-	Sight Glass(to check when to separate the F.O.G.)
G	PP	-	Air-flow Regulator



Grease Trap M-43(E) / M-43(F)



A Air-intake-hole that the user can adjust the air-intake amount by the circumstances.



B Sight glass on the cover helps the user to know when to separate the F.O.G. (When inspection air bladder comes up to sight glass, it means that it is time to clean.)



C Locking levers on the edge of the cover make the cover to be fixed strongly with the body.



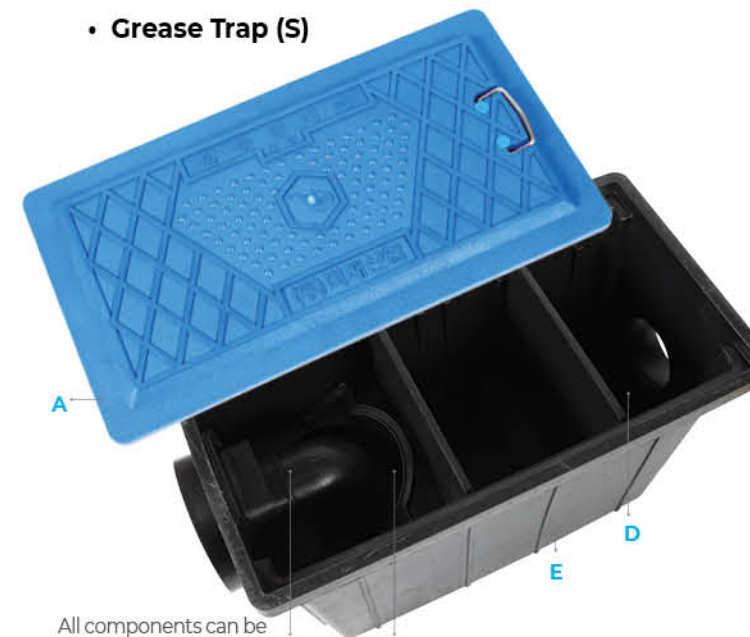
D Rubber Packing keeps the occurred gas and odor from coming out of grease trap.



Overall Specification

Model	Set #	Load Class	Weight kg(Lb)	Tank size mm(inch)	Pipe size Ø(inch)
M-43(E)	B30N21	A15	9.74(21.5)	600(L) x 450(W) x 415(H) (23 ⁵ / ₈ " x 17 ³ / ₄ " x 16 ³ / ₈ ")	Ø50, Ø75, Ø100 (2", 3", 4") ※ Expander (Ø50-Ø75)
M-43(F)	B30N31	A15	7.84(17.3)	400(L) x 450(W) x 415(H) (15 ³ / ₄ " x 17 ³ / ₄ " x 16 ³ / ₈ ")	

• Grease Trap (S)



All components can be removable from body

Overall Specification

Model	Set #	Load Class	Weight kg(Lb)	Tank size mm(inch)	Pipe size Ø(inch)
M-43(S)	B30N02	A15	10.3(22.7)	645(L) x 355(W) x 460(H) (25 ³ / ₈ " x 14" x 18 ¹ / ₈ ")	Ø100, Ø125, Ø150

Product details

COVER SELECTION			
ITEM	Part #	Description	Weight/Load Class
A (select 1)	1605	Cover form Cast Iron (Ductile)	- / -
	1107	Cover form PP	2,835g / A15

BODY PARTS				
ITEM	Part #	Material	Description	Weight
B	4105	PP	Foodwaste Basket	225g
C	4106	PP	90° Elbow Connected Inlet	220g
D	4107	PP	Baffle (2)	
E	3108	PP	Body	7,010g

Height Adjustable

Inspection Chamber M-3



Height Adjustable

Inspection Chamber M-3

OVERALL SPECIFICATION

Custom solutions are also available

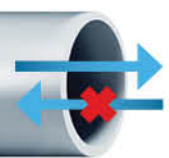
Model	Set #	Load Class	Weight kg(Lb)	Tank size mm(inch)	Pipe size Ø(inch)
M-3	B10N01	C250	16.9 (37)	540(L) x 400(W) x 600(H) (21 1/4" x 15 3/4" x 23 5/8")	Inlet Ø100, Ø125 (4", 4 7/8")
	B10N02	A15	11.6 (25.6)		
	B10H01	C250	20.9 (46)	540(L) x 400(W) x 600-850(H) (21 1/4" x 15 3/4" x 23 5/8"-31 1/2")	Outlet Ø150 (5 7/8")
	B10H02	A15	15.6 (34.4)		

Handle on a cover
provides easy inspection and maintenance

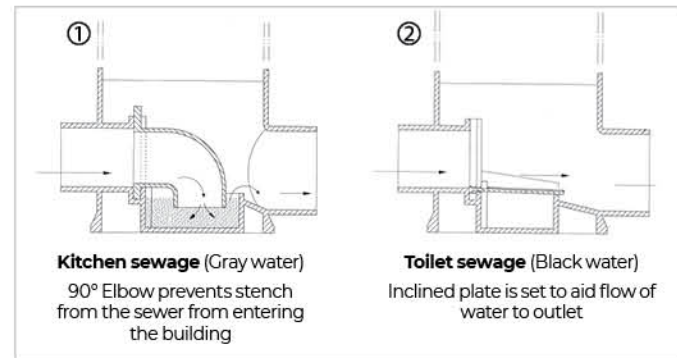
Furrows and Hoops
let the height be controlled instantly
at 50mm (2") intervals without cutting at site.

Rubber packing
completely blocks
storm water influx

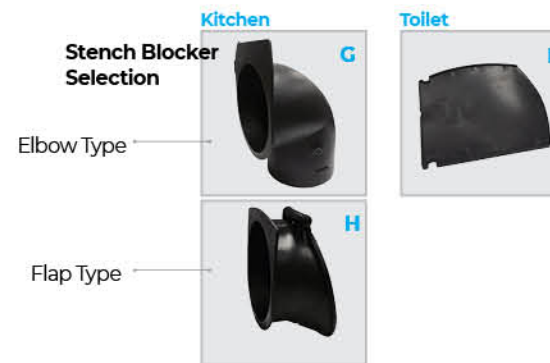
Pipe is easily inserted into
the product, but does not
come out thanks to inner
rubber shape.



Round Body
Gives strong lateral
support against
surrounding soils

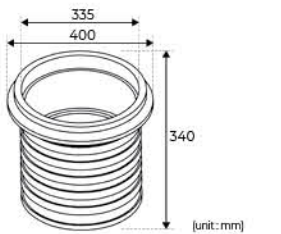


Convertible inlet
According to the type
of sewer pipe



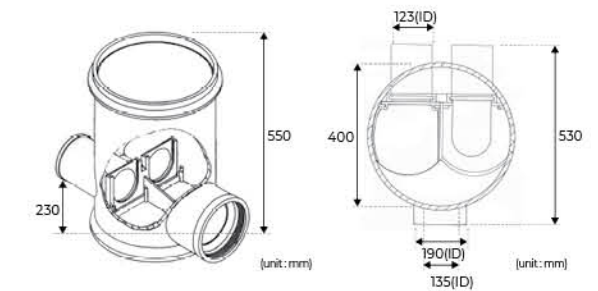
Product details

COVER SELECTION				
ITEM	Part #	Description	Weight	Load Class
A	1101	Cover form Cast Iron (Ductile)	7,520g	C250
B	1601	Cover form PP	2,245g	A15



BODY COMPONENTS

ITEM	Part #	Material	Description	Weight
C	6401	Rubber	Rubber seal	160g
D	6101	PP	Riser	3,480g
E	6102	PP	Riser Ring	420g
F	6402	Rubber	Rubber seal for Riser	100g
G	4101	PP	Stench blocker [Pipe from Kitchen]-Elbow Type	160g
H	4102	PP	Stench blocker [Pipe from Kitchen]-Flap Type	165g
I	4103	PP	Flow plate [Pipe from Toilet]	110g
J	3101	PP	Body	8,425g
K	6404	Rubber	Pipe Sealing Gasket -Inlet Ø100	155g
L	6405	Rubber	Pipe Sealing Gasket -Outlet Ø150	240g



FURTHER ACCESSORY

ITEM	Part #	Material	Description	Weight
M	6103	PP	Inlet Reducer 125Ø 100Ø	530g
N	6104	PP	Socket Coupling for Extra piping hole	1,075g

Height Adjustable

Catch Basin M-44



OVERALL SPECIFICATION

Model	Set #	Load Class	Weight kg(Lb)	Tank size mm(inch)	Pipe size Φ(inch)
M-44	B20H01	C250 Grate	24.3 (53.6)	550(L) x 450(W)	Inlet Φ100, Φ200, Φ300 (4", 7 7/8", 11 1/2") Outlet Φ150, Φ300 (5 7/8", 11 3/4")
	B20H02	B125 Cover	24.9 (54.9)	660~960(H)	
	B20H03	A15 Grate	18.6 (41)	(21 3/8" x 17 3/4"	
	B20H04	A15 Cover	16.7 (36.8)	26"~37 1/4")	

Furrows and Hoops let the height be controlled instantly at 50mm(2") intervals without cutting.

360° Rotatable Upper body ensures precise construction by matching the angle to the road accurately



Round Body promotes durability to endure earth pressure



Angle Controlling

Height Controlling

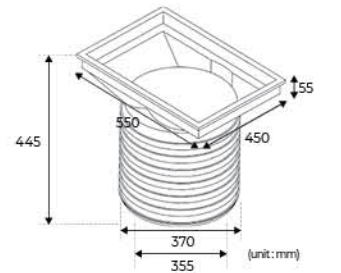
Height Adjustable

Catch Basin M-44



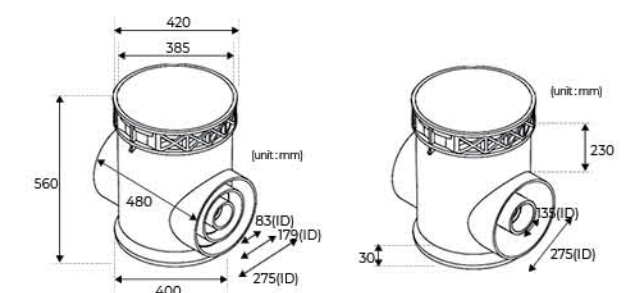
Product details

COVER SELECTION				
ITEM	Part #	Description	Weight	Load Class
A	1602	Grate from Cast Iron (Ductile)	11,340g	C250
B	1603	Cover from Cast Iron (Ductile)	11,860g	B125
C	1701	Grate from Steel grating	5,650g	A15
D	1102	Cover from PP	3,655g	A15



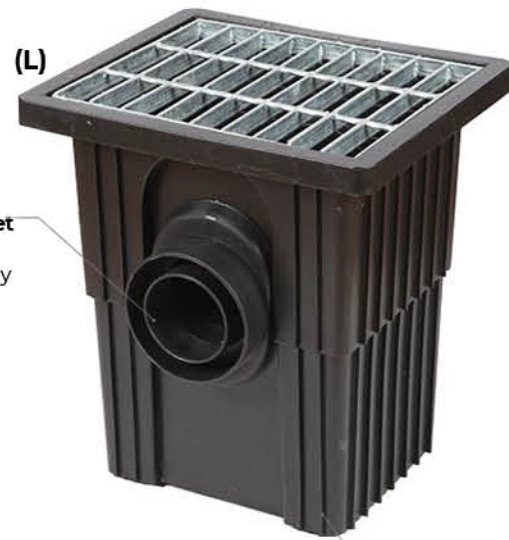
BODY COMPONENTS

ITEM	Part #	Material	Description	Weight
E	6401	PP/Steel grating	Riser	5,920g
F	6101	PP	Riser Ring	420g
G	6402	PP	Body	6,555g



Catch Basin for Home Use M-37

P12 See details on page 12.



Our Patented Inlet can be adjusted up and down freely

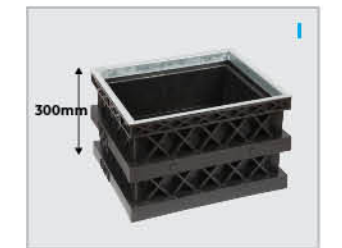
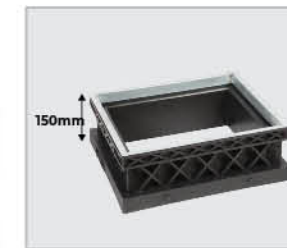
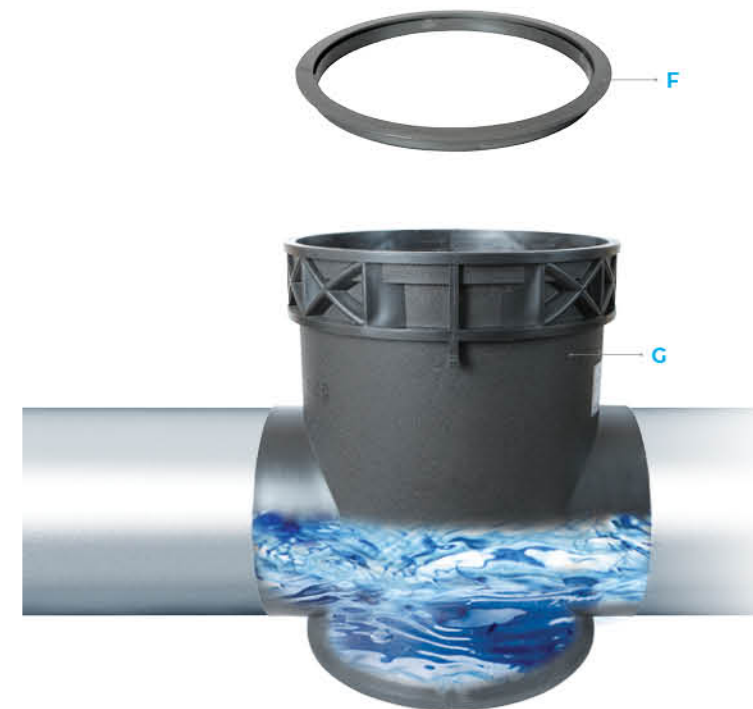
(L) TYPE only

Light Weight for easy installation



OVERALL SPECIFICATION

Model	Set #	Load Class	Weight kg(Lb)	Tank size mm(inch)	Pipe size Φ(inch)
M-37(L)	B20N02	A15 Grate	6.1 (13.4)	430(L) x 370(W) x 500(H)	Φ100 (4")
	B20N04	A15 Grate	5.7 (12.5)	(16 1/8" x 14 3/8" x 19 1/4")	Φ125 (4 7/8")
	B20N12	A15 Grate	5.2 (11.5)		
M-37(M)	B20N13	A15 Grate	4.3 (9.5)	430(L) x 370(W) x 420(H)	Φ100 (4")
	B20N14	A15 Cover	4.8 (10.6)	(16 1/8" x 14 3/8" x 16 1/2")	
M-37(S)	B20N21	A15 Cover	2.4 (5.3)		
	B20N22	A15 Cover	2.1 (4.6)	375(L) x 330(W) x 285(H)	Φ75 (3")
	B20N23	A15 Grate	2.95 (6.5)	(14 3/4" x 13" x 11 1/4")	Φ100 (4")

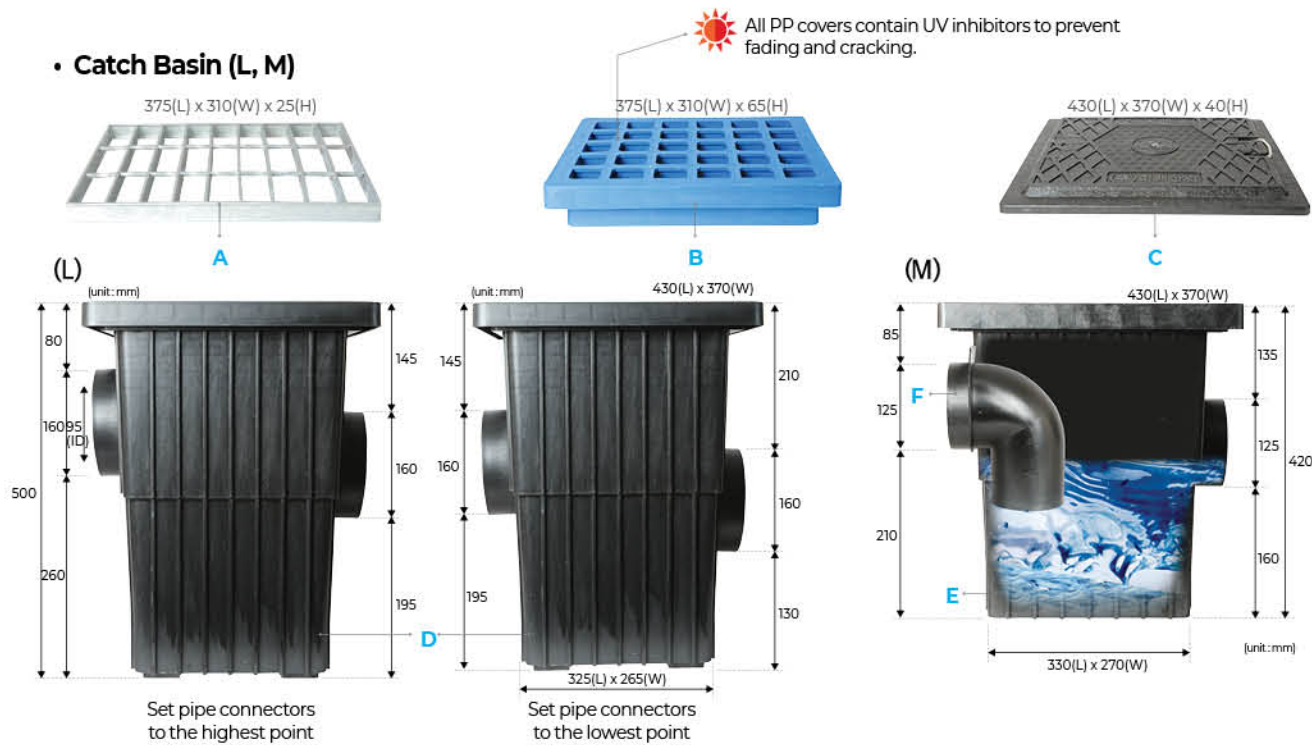


EXTENSION SECTION

ITEM	Part #	Material	Size	Description	Weight
H	6302	PP/Steel grating	S	Additional Riser	5,100g
I	6303	PP/Steel grating	L	Additional Riser	

Catch Basin for Home Use M-37

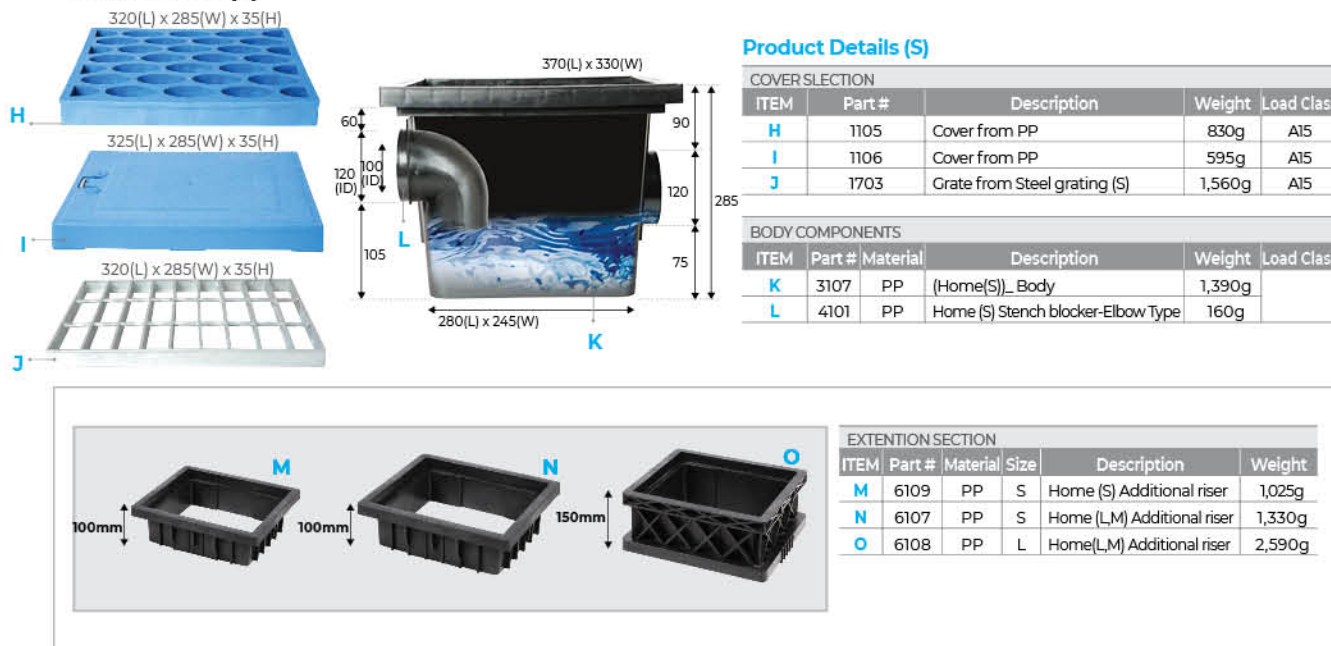
• Catch Basin (L, M)



Product Details (L,M)

COVER SELECTION					BODY COMPONENTS				
ITEM	Part #	Description	Weight	Load Class	ITEM	Part #	Material	Description	Weight
A	1702	Grate from Steel grating (L, M)	2,160g	A15	D	3105	PP	Home (L) Body	3,930g
B	1104	Cover from PP (M)	1,760g	A15	E	3106	PP	Home (M) Body	2,845g
C	1103	Cover from PP (L, M)	1,295g	A15	F	4104	PP	Home (M) Stench blocker-Elbow Type	180g

• Catch Basin (S)



Product Details (S)

COVER SELECTION					BODY COMPONENTS				
ITEM	Part #	Description	Weight	Load Class	ITEM	Part #	Material	Description	Weight
H	1105	Cover from PP	830g	A15	K	3107	PP	(Home(S))_Body	1,390g
I	1106	Cover from PP	595g	A15	L	4101	PP	Home (S) Stench blocker-Elbow Type	160g
J	1703	Grate from Steel grating (S)	1,560g	A15					

EXTENSION SECTION

ITEM	Part #	Material	Size	Description	Weight
M	6109	PP	S	Home (S) Additional riser	1,025g
N	6107	PP	S	Home (L,M) Additional riser	1,330g
O	6108	PP	L	Home(L,M) Additional riser	2,590g

Stench Blocker Trap M-36(A-2)

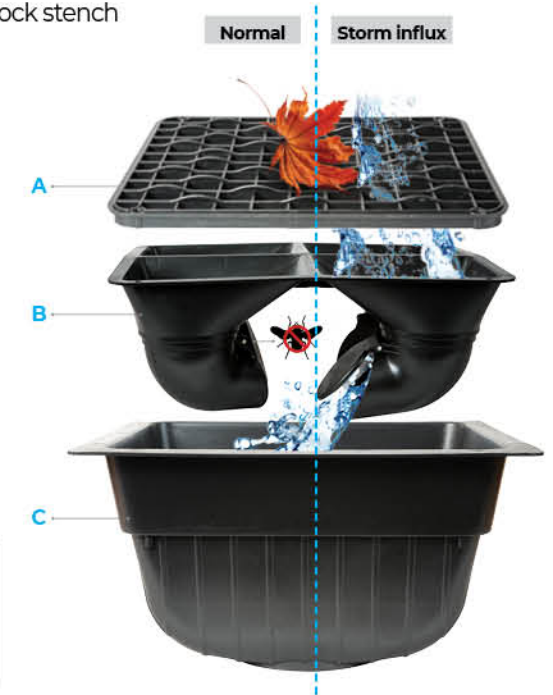
A cover opens when storm water flows in, and it is closed normally to block stench from the manholes and movement of insects and rodents.

- Custom solutions are also available
- Easy installation and maintenance



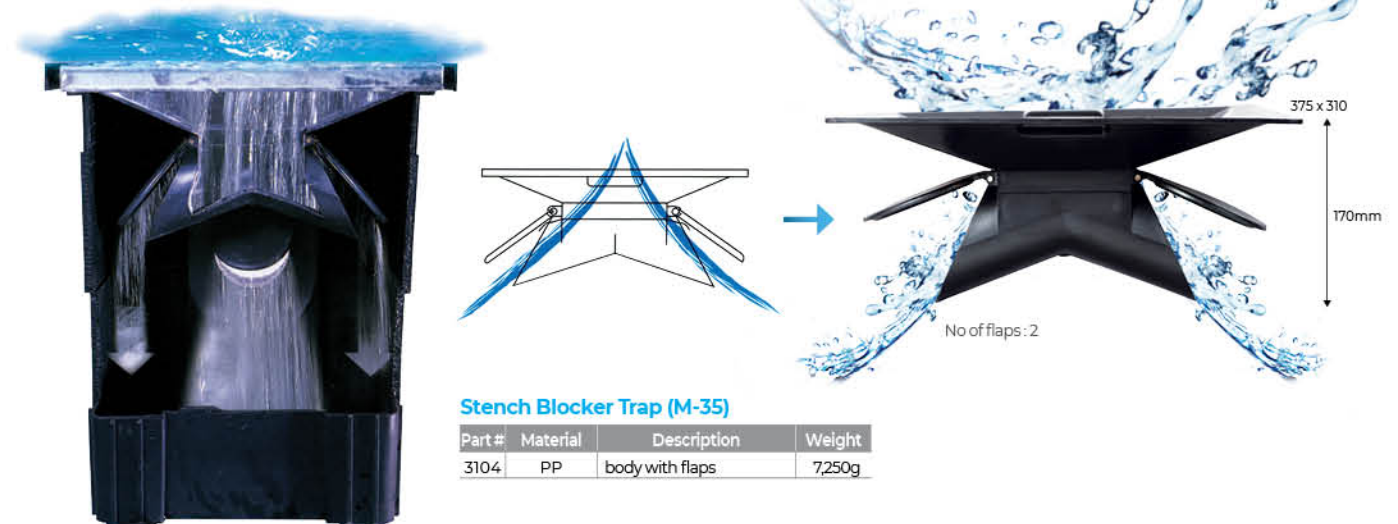
Stench Blocker Trap (A-2)

ITEM	Part #	Material	Description	Weight
A	2101	PP	Debris Filter	560g
B	3701	PP/Rubber	Rodent Protection Flaps	1,050g
C	3103	PP	Body	1,300g



Stench Blocker Trap M-35

- Suitable for our home use catch basin (L), (M) sizes
- One-piece-unit.
- Installs in seconds



Stench Blocker Trap (M-35)

Part #	Material	Description	Weight
3104	PP	body with flaps	7,250g

Part2. Building Materials

PRODUCTS OF MIRAE INDUSTRY



EFFICIENCY

allows precise construction by a constructor

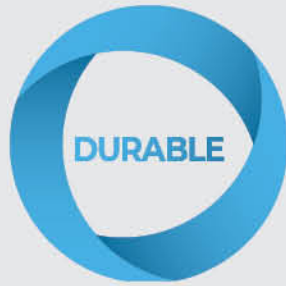
The problems of existing products are resolved so that convenience and efficiency in the field are increased, and strong fixation and firm connection are available for more accurate and precise works.



COMFORT

considers the convenience of a user.

We make efforts to improve the convenience of people when residing in a building. The details of our products are differentiated from those of existing ones. Our products significantly decrease the inconvenience frequently experienced by people in their lives.

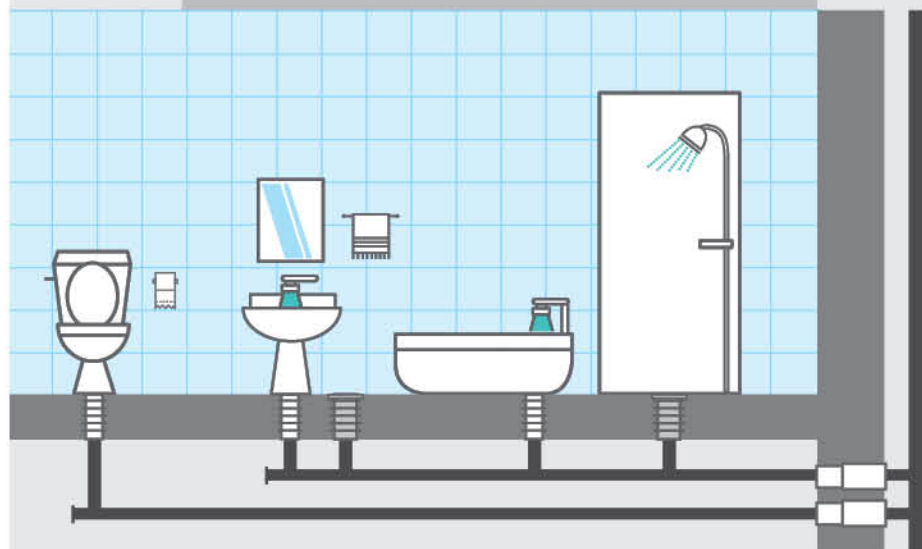


DURABLE

has a value that gets better as time goes by

From the construction stage, precise and firm construction is available. Thus, there are no problems that may occur due to shoddy and faulty construction over time.

HOW IT WORKS



Floor Drains - p. 16



Wall Sleeve - p. 22

Beam Sleeve - p. 23



Balcony Drain - Vortex - p. 20



Toilet Sleeve - p. 21



Toilet Bowl Sleeve - p. 23



Balcony Drain / Roof Drain - p. 19



Eccentric Slider Drain - p. 18



Channel Drain - p. 17

Multi-purpose

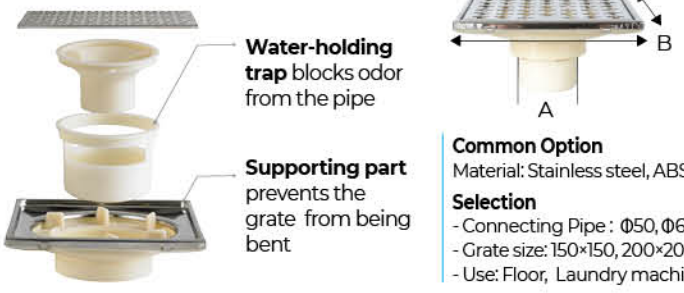
Floor Drain M-11



Connecting part to Laundry machine
:Chrome plated ABS plastic



※End of part number : Floor (F), Laundry (L)



A: Pipe Size(Φ)	B: Grate size(mm)	Weight (g)	Product #
50	150x150	305	C40N01F
		335	C40N01L
65	150x150	330	C40N02F
		360	C40N02L
75	150x150	330	C40N03F
		360	C40N03L
100	150x150	385	C40N04F
		415	C40N04L
	200x200	625	C40N05F
		635	C40N05L



Channel Drain M-17



1205 (S) 1206 (M)
Grate/Stainless steel 304

4113 Flaps/ABS

1 Opened only when the water flows
Prevents odor and insect movement

6118 End Cap/ABS

2 Create a channel as long as you want

3117(S) 3118 (M)

Body/ABS
Available in two widths:
500mm, 1,000mm

3 Circular body aiding smooth drainage

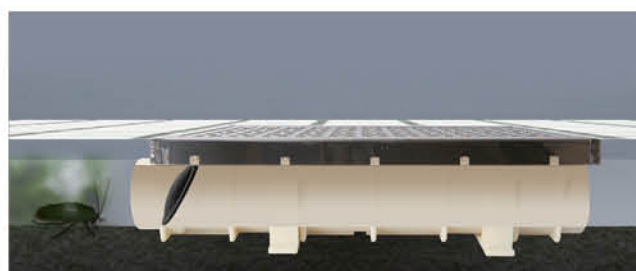
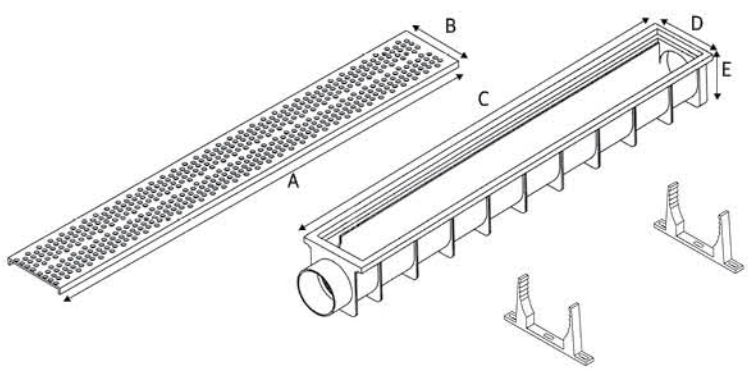
5115 Fixing Feet/ABS

4 Prevents movement to ensure sophisticated construction.

Common Option
(Grate/Body 2 Types each)
material: Stainless steel 304, ABS
Pipe Size: $\Phi 75$ (Reducer $\Phi 75 \rightarrow \Phi 50$)

Selection
- Product Length : 500mm, 1,000mm

Model	SET #	A	B	C	D	E	Outlet (Φ)	Weight (g)
M-17	C50N11(S)	470	120	500	150	120	50, 75	2,050
	C50N12(M)	970	120	1000	150	120	50, 75	3,735



Grate Selection
For Below 3 sets (M-10, M-9, M-10H)

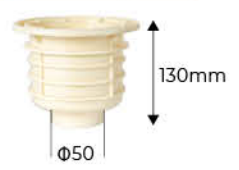
Grate	Body	Size	Use	Product #
A	150x150 mm Floor			C40N04F
B	150x150 mm Laundry			C40N04L
C	200x200 mm Floor			C40N05F
D	200x200 mm Laundry			C40N05L

Floor Drain M-10



SET CODE
A C40N11F B C40N11L
C C40N12F D C40N12L

3110 Fixed Body / ABS



Common Option
(Grate : 4 types / Body : 1 type)
Pipe Size : $\Phi 50$
Material: Stainless steel, ABS

Selection
- Grate size: 150x150, 200x200
- Use: Floor, Laundry machine

Fixing Foot
Type A (Basic/+5 mm)
Type B (+20 mm)
Total Height (mm): 135, 150
Lower part weight (g): 285(+)

Joint Floor Drain M-09



SET CODE
A C40N21F B C40N21L
C C40N22F D C40N22L

3111 Fixed Body / ABS



Common Option
(Grate : 4 types / Body: 1 type)
Pipe Size : $\Phi 50$
Side connecting pipe: $\Phi 35, \Phi 50$
Material: Stainless steel, ABS

Selection
- Grate size: 150x150, 200x200
- Use: Floor, Laundry machine

Fixing Foot
Type A (Basic/+5 mm)
Type B (+20 mm)
Total Height (mm): 135, 150
Lower part weight (g): 320(+)

Height Adjustable Drain Trap M-10H



Adjustable in 15 mm increments

Common Option
(Grate : 4 types / Body : 2 types)
Material: Stainless steel, ABS, PP

Selection
- Pipe Size : $\Phi 50, \Phi 75$
- Grate size: 150x150, 200x200
- Use : Floor, Laundry machine

SET CODE
A C40H11F B C40H11L
C C40H12F D C40H12L

3112 Adjustable Body / PP



Fixing Foot
Type A (Basic/+5 mm)
Type B (+20 mm)
Maximum Height (mm): 225, 240
Lower part weight (g): 475(+)

SET CODE
A C40H13F B C40H13L
C C40H14F D C40H14L

3113 Adjustable Body / PP



Fixing Foot
Type A (Basic)
Type B (+15 mm)
Type C (+30 mm)
Maximum Height (mm): 225, 240
Lower part weight (g): 465(+)

Eccentric Slider

Drain Trap M-8



Common Option
(Grate: 2 types / Body: 3 types)
Grate size: 200x200
Material: Stainless steel, ABS, PP

Selection
- Connecting pipe: Φ 50, Φ 75, Φ 100
- Use: Floor, Laundry machine



Grate rotatable in 360°
Height is adjustable in mm slightly.

Slide plate that can be moved left and right according to the tile angles

Cup holding stagnant water to prevent odor from the pipe

The lower body is adjustable by 15 mm from 150 mm to 210 mm according to the concrete thickness.

Foot for fixing the lower body

• Grate Selection



• Body Selection

SET CODE
A C40N41F **B** C40N41L

3114 Fixed Body / PP



Maximum Height (mm): 135, 150
Lower part weight (g): 425(+)

SET CODE
A C40N42F **B** C40N42L

3115 Adjustable Body / PP



Maximum Height (mm): 215, 230, 245
Lower part weight (g): 560(+)

SET CODE
A C40N43F **B** C40N43L

3116 Adjustable Body / PP



Maximum Height (mm): 215, 230, 245
Lower part weight (g): 600(+)

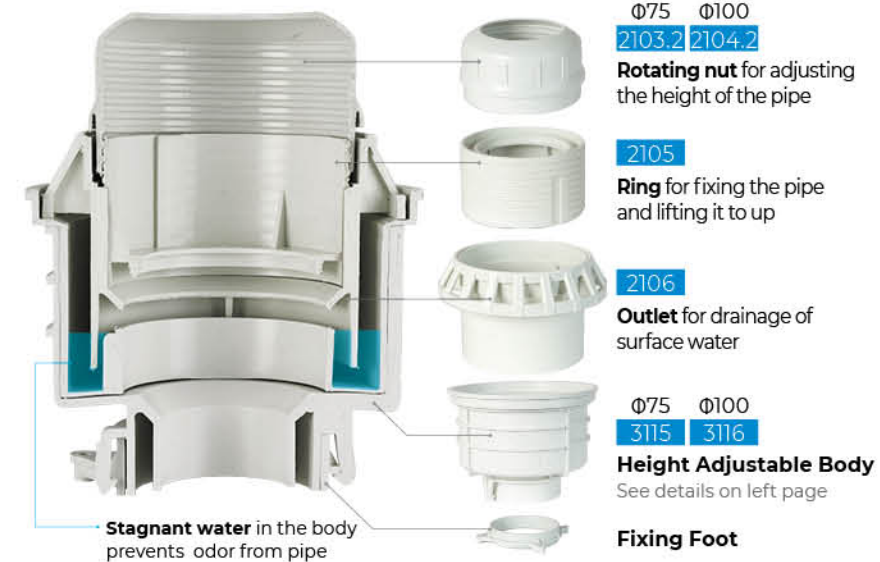
Adjustable body **3115, 3116** can be compatible with **M-31H, M-32H**

Height Adjustable

Balcony Drain M-31H



Common Option
(Upper/Lower part 2 types each)
Material: PP
Selection
- Connecting pipe: Φ 75, Φ 100



Φ 75 Φ 100

2103.2 **2104.2**

Rotating nut for adjusting the height of the pipe

2105

Ring for fixing the pipe and lifting it to up

2106

Outlet for drainage of surface water

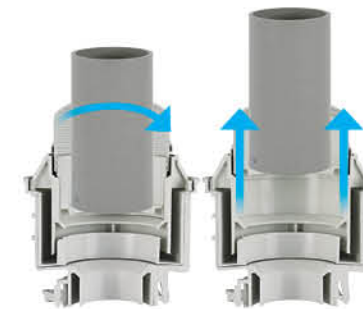
Φ 75 Φ 100

3115 **3116**

Height Adjustable Body
See details on left page

Fixing Foot

Stagnant water in the body prevents odor from pipe



After inserting the pipe into the product, rotate the upper nut(#2103, #2104) to lift a pipe for connecting with upstairs' one. No gaps, and shakes are occurred with this product.

SET CODE
 Φ 75 C60H01
 Φ 100 C60H02

Height Adjustable

Roof Drain M-32H



Common Option
(Grate: 1 type / Body: 2 types)
Material: Cast Iron, PP
Selection
- Connecting pipe: Φ 75, Φ 100



2601

Cast iron Grate

Φ 75 Φ 100

3115 **3116**

Height Adjustable Body
See details on left page

Fixing Foot

• Further Accessory



6122 Square frame / 200x200 mm

Usable on body #3115, #3116

6122 3cm Riser / PP

Usable on body #3114

6122 3cm Riser / PP

Usable on body #3115, #3116

6123 Pipe Finishing Ring / Φ 75 / ABS

6124 Pipe Finishing Ring / Φ 100 / ABS

Balcony Drain-

Vortex M-30



After mounting a pipe, turn the rotating nut right and left. Then, the pipe lifts up and down by the internal spiral pipe fixing ring. With our problem solving products, pipes can be connected precisely without any gaps, ensuring sophisticated construction.



Common Option
Upper part: 4 types / Lower part: 4 types
Material: Stainless steel, ABS, PP

Rotating Nut



Selection

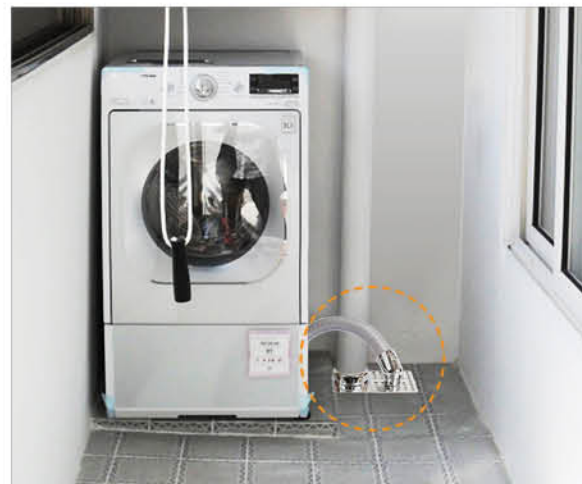
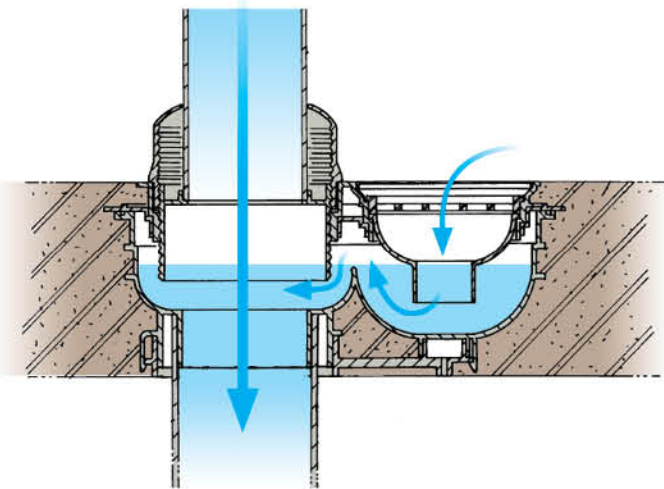
Connecting pipe: $\Phi 75, \Phi 100$
Body Height: 120 mm, 180 mm
Grate: Floors, laundry machines
Rotating Nut: Basic, Chrome plated
ABS plastic



Total height (mm): 120, 135, 150
Lower part weight(g): 500(+), 670(+)

Total height (mm): 180, 195, 210
Lower part weight(g): 545(+), 700(+)

Fixing Foot



M-29 Chrome Plated upper section



Pipe Size(Φ)	Body Height(mm)	Weight (g)	SET #
75	120	1520	C70N11F
		1550	C70N11L
	180	1690	C70N12F
		1720	C70N12L
100	120	1540	C70N13F
		1570	C70N13L
	180	1695	C70N14F
		1725	C70N14L

M-30 Basic upper section



Pipe Size(Φ)	Body Height(mm)	Weight (g)	SET #
75	120	1510	C70N21F
		1540	C70N21L
	180	1680	C70N22F
		1710	C70N22L
100	120	1530	C70N23F
		1560	C70N23L
	180	1685	C70N24F
		1715	C70N24L

Place holes before you pour. Save time and money.



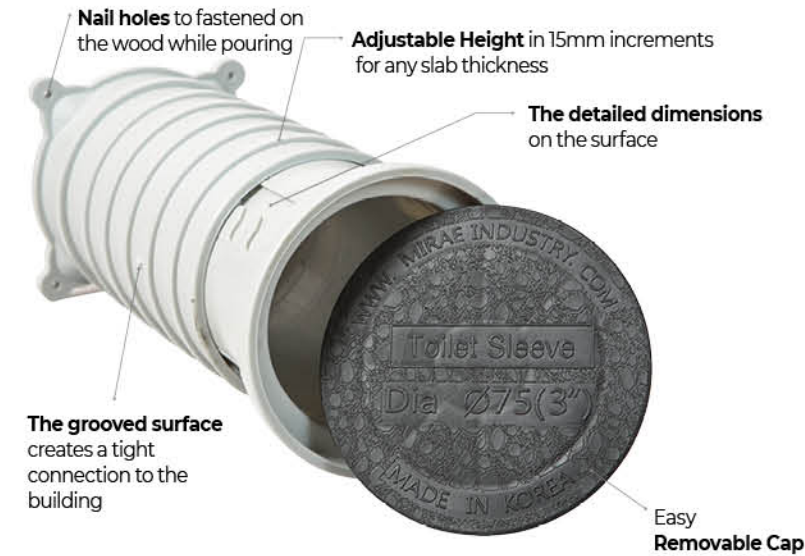
Height Adjustable

Toilet Sleeve M-12



Used for discharging various domestic wastewater from toilet bowls and washbowls in buildings

Material: PP



Product	Height (mm)	Connecting Pipe (Φ)	Weight (g)	Product Code
Height Adjustable Toilet Sleeve (S)	Min 150 To Max 200	35	135	C20H11
		50	220	C20H12
		75	325	C20H13
		100	360	C20H14
		125	500	C20H15
Height Adjustable Toilet Sleeve (L)	Min 200 To Max 300	50	235	C20H21
		75	340	C20H22
		100	450	C20H23

Installation Location



Construction Sequencing



Place, Fix, Control Height

Steel Reinforcement

Pour concrete

Piping work

Toilet Sleeve M-13

Material: PP



Product	Height (mm)	Connecting Pipe (Φ)	Weight (g)	Product Code
Toilet Sleeve (S)	120	50	125	C20N01
		75	230	C20N02
		100	290	C20N03
Toilet Sleeve (M)	150	50	155	C20N11
		75	260	C20N12
		100	400	C20N13
Toilet Sleeve (L)	200	50	225	C20N21
		75	330	C20H22
		100	470	C20H23

Further Accessory

Simply use our 30mm incremental extenders.



Wall Sleeve M-14

Leave uniform holes for electrical, cables, plumbing, heating, air conditioning, and other services.

Material: PP

Make hole simply by hammering



Product	Height (mm)	Penetrating Pipe (Φ)	Weight (g)	Product Code
Wall Sleeve (S)	150	25	65	C10N11
		40	100	C10N12
		50	110	C10N13
		75	182	C10N14
		100	255	C10N15
		125	230	C10N16
		150	275	C10N17
		200	-	C10N18
Wall Sleeve (M)	200	25	120	C10N21
		40	155	C10N22
		50	165	C10N23
		75	230	C10N24
		100	310	C10N25
		125	285	C10N26
		150	330	C10N27
		200	-	C10N28

Height Adjustable

Wall Sleeve M-15



Material: PP



Immediately height adjustable in 20mm increments

- Features**
- Low Cost
 - Light Weight and Sturdy
 - One Piece-unit. No assembly.
 - Installs in seconds.

- Available in about 30 sizes
- Range from 250mm to 300mm in diameter
- Accommodate wall thickness up to 360mm

• On-site example



Our Height adjustable products decrease installation time innovatively

Product	Height (mm)	Penetrating Pipe (Φ)	Weight (g)	Product Code
Height Adjustable Wall Sleeve (S)	Min 120 To Max 200	25	75	C10H01
		35	100	C10H02
		40	120	C10H03
		50	165	C10H04
		75	220	C10H05
		100	300	C10H06
		125	425	C10H07
		150	495	C10H08
		200	645	C10H09
Height Adjustable Wall Sleeve (M)	Min 150 To Max 270	25	115	C10H10
		40	157	C10H11
		50	200	C10H12
		75	320	C10H13
		100	405	C10H14
		125	490	C10H15
		150	610	C10H16
		200	805	C10H17
		300	1285	C10H19
Height Adjustable Wall Sleeve (L)	Min 200 To Max 360	25	155	C10H20
		40	210	C10H21
		50	265	C10H22
		75	405	C10H23
		100	540	C10H24
		125	630	C10H25
		150	770	C10H26
		200	950	C10H27
		250	1230	C10H28
		300	1500	C10H29

Length Adjustable

Beam Sleeve M-16

Conveniently used for the breast walls or beams of buildings.

Material: PP



Adjustable Length in 20mm increments for any slab thickness

Length adjustable up to 710 mm on both sides according to on-site conditions

Product	Height (mm)	Penetrating Pipe (Φ)	Weight (g)	Product Code
Length Adjustable Beam Sleeve(S)	Min 290 To Max 510	50	405	C30H01
		75	610	C30H02
		100	760	C30H03
		125	935	C30H04
		150	1110	C30H05
		200	1330	C30H06
Length Adjustable Beam Sleeve(L)	Min 390 To Max 710	50	-	C30H11
		75	-	C30H12
		100	-	C30H13
		125	-	C30H14
		150	-	C30H15

• On-site example



Toilet Bowl Sleeve



- Instructions
1. Adjust the Distance
 2. Attach it with an adhesive.