





Drain Channel System



Manhole covers

MoonBay Profile

Hangzhou Moonbay Industrial Co., Ltd is a professional construction material manufacturer integrating obligation with R&D, design, produce, sale and service.

Since its establishment on July 25, 2013, we have over 50 engineers and more than 150 workers, the company has developed and produced products such as: PP/HDPE Drain channel, Polymer concrete drain channel, Steel pedestal, Adjustable Pedestal, Manhole Cover, Aluminum Decking, Garden Edge, Tile Leveling System etc... with 32 innovative patents.

Being honest, professional, innovative and positive is our business concept.Offering great quality product and excellent service is one of our mission.

Moonbay factory located in Zhuji, Shaoxing with 13000 SQM area. There are over **60 automatic production Line**. Moonbay building material support 10,000+ project every year. It's now world-famous brand and hot selling in Europe, Asia, Australia, North America. We look forward to cooperating with you.



13000+ 13000 SQM area factory



Innovative patents



Automatic production Line



Sales around the world





2013

Moonbay Company was established to provide custo with efficient and environme friendly products



2014

Set up a domestic trade and foreign trade team, developed T-series Adjustable Pedestal, and won 9 national patents



2015 Develop A-series Adjustable

2018

2017 Develop Water Drainage system and all kinds of drain covers



2016 The factory area was expanded to 8,000 square meters, and the number of employees exceeded 100



2019 Top one supplier of adjustable pedestal and drain channel in China



2023

2020 Developed garden edge and obtained 18 national



2021

The number of employees exceeded 200, and the factory area was expanded to 13.000

2024

Developed snapping



Develop aluminum products including aluminum joist beam aluminum deckboard aluminum recessed access covers



Buy 12800 sqm factory, upgrade to universal building material











Mission: Create More Efficient And Eco-friendly Product

Vision: To Be The Benchmarking Enterprise In Building

Material Industrial

Value: Honesty, Profession, Innovation, Optimism

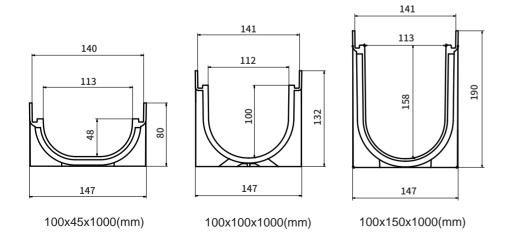


Factory video

Drainage Ditch

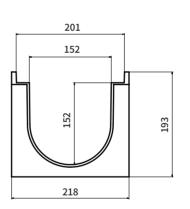


Drain Channel System

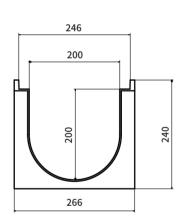




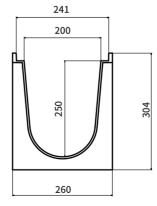
ID 150/200/250 Series(mm)



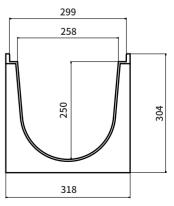
150X150X1000(mm)



200X200X1000(mm)



200X250X1000(mm)

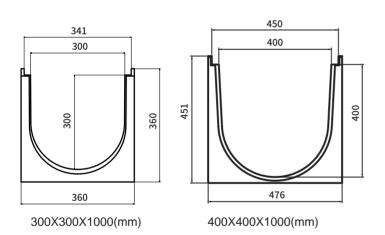


250X250X1000(mm)

Load Classification



ID 300/400/500 Series(mm)



550 500 551 576

500X500X1000(mm)



Class Load(KN) Rating

Typical Uses



15

Residential and light pedestrian traffic



В

125

Sidewalks and small private parking lots



С

250

Parking lots and general commercial areas



D

400

Trafficked sections of roads and highways



Ε

600

Aircraft hangars, industrial areas, gas stations and light commercial forklifts



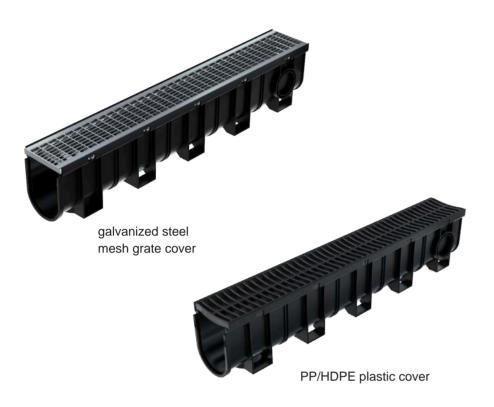
F

900

Aircraft runways, military establishments, docks, heavy industrial, heavy fork trucks

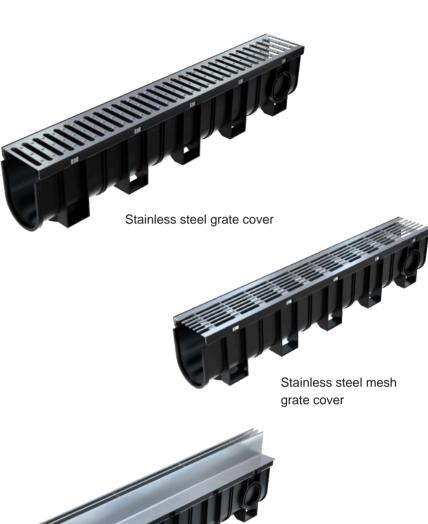
and very heavy wheel loads

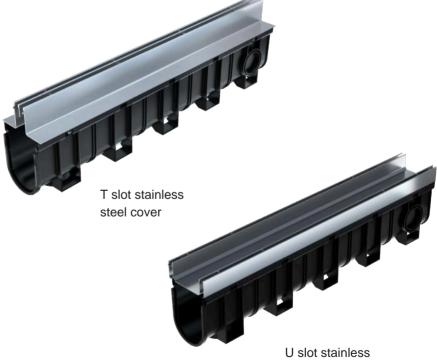
Channel Covering





Channel Covering





steel cover

Drainage Ditch Details



100x45x1000 Drain Channel And PP/HDPE Cover Four-way Joint And PP/HDPE Cover End Cap



100x100x1000 Drain Channel And PP/HDPE Cover Four-way Joint And PP/HDPE Cover End Cap



100x150x1000 Drain Channel And PP/HDPE Cover Four-way Joint And PP/HDPE Cover End Cap

ID 100 drain channel cover details

Covers		A B B B B B		The state of the s
Name	Stainless steel grate cover	PP/HDPE plastic grate cover	L slot stainless steel cover	T slot stainless steel cover
Loading	A15	B125	B125/C250/D400	B125/C250/D400
Material	stainless steel/galvanized steel	PP/HDPE	stainless steel	stainless steel
Туре	grate cover	grate cover	L slot cover	T slot cover
Note	customized	mold production	customized	customized

Covers			A Grandia
Name	Stainless steel mesh grate cover	Galvanized steel mesh grate cover	Iron cast cover
Loading	C250/D400	C250/D400	D400
Material	stainless steel	galvanized steel	iron cast
Туре	mesh grate cover	mesh grate cover	grate cover
Note	customized	customized	mold production



Channel Covering



150x150x1000 Drain Channel And PP/HDPE Cover Four-way Joint And End Cap





200x200x1000 Drain Channel And PP/HDPE Cover Four-way Joint And End Cap





200x250x1000 Drain Channel And PP/HDPE Cover Plastic Corner Joint And PP/HDPE Cover Slim Pit And End Cap





250x250x1000 Drain Channel And PP/HDPE Cover Four-way Joint And End Cap



ID 150/200/250 drain channel cover details

Covers				
Name	Stainless steel grate cover	PP/HDPE plastic grate cover	L slot stainless steel cover	T slot stainless steel cover
Loading	A15	A15	B125/C250/D400	B125/C250/D400
Material	stainless steel/galvanized steel	PP/HDPE	stainless steel	stainless steel
Туре	grate cover	grate cover	L slot cover	T slot cover
Note	customized	mold production	customized	customized

Covers			
Name	Stainless steel mesh grate cover	Galvanized steel mesh grate cover	Iron cast cover
Loading	C250/D400	C250/D400	C250
Material	stainless steel	galvanized steel	iron cast
Туре	mesh grate cover	mesh grate cover	grate cover
Note	customized	customized	mold production







400x400x1000 Drain Channel And PP/HDPE Cover End Cap



500x500x1000 Drain Channel And PP/HDPE Cover End Cap

ID 300 drain channel cover details

Covers	KAN W	A SECOND	E AGA	E STATE OF
Name	PP/HDPE plastic grate cover	L slot stainless steel grate cover	T slot stainless steel cover	U slot stainless steel cover
Loading	A15	B125/C250/D400	B125/C250/D400	B125/C250/D400
Material	PP/HDPE	stainless steel	stainless steel	stainless steel
Туре	grate cover	L slot cover	T slot cover	U slot cover
Note	customized	customized	customized	customized

ID 400/500 drain channel cover details

Covers	CAR ST	A REAL PROPERTY OF THE PARTY OF	
Name	Stainless steel mesh grate cover	Galvanized steel mesh grate cover	Iron cast cover
Loading	C250/D400	C250/D400	C250
Material	stainless steel	galvanized steel	iron cast
Туре	mesh grate cover	mesh grate cover	grate cover
Note	customized	customized	mold production

PP/HDPE plastic grate cover
A15
PP/HDPE
grate cover
customized

D400 Ductile Iron Side Protection Bar

This ductile iron side protection frame is specially designed for D400 loading cover, matched with Moonbay PP/HDPE drain channel and SMC/GRP drain channel. Each meter using 4 pcs of ductile iron protection bar, and locked with screws and nuts. After pouring the concrete, the side clamps are firmly fixed to the concrete.



M8 screw D400 ductile iron cover SS side protection frame nut side fixing clamp

PP/HDPE drain channel assembled with stainless steel side protection frame(D400 cover), when loading requirement is D400, we recommend to use this stainless steel side protection frame, this will help to protect the channel edge, and the side clamp can be security fixed to concrete.



Each meter using 8 pcs M8 screws and nuts, they can lock the cover one the channel. After pouring the concrete, the side clamp are firmly fixed to the concrete. This means the cover are locked with concrete by the screws and side fixing clamps.

Cover lock detail

ID100 PP/HDPE Drain Channel And PP/HDPE Cover



Lock details

ID100 PP/HDPE Drain Channel And Iron cast cover



Lock details

ID100 PP/HDPE Drain Channel And Stainless steel grate cover



Lock details

ID150/200/250/300/400/500 PP/HDPE Drain Channel And PP/HDPE Cover



lock detials by using screws

ID150/200/250/300/400/500 PP/HDPE Drain Channel And Iron cast cover



lock details by using bolts and nuts

ID150/200/250/300/400/500 And galvanized steel mesh grate cover



lock details by using bolts and nuts

Polymer concrete drain channel & SMC trench drain channel

Polymer concrete drain channel



SMC trench drain channel







Polymer concrete drain channel









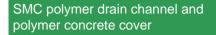
Drain Channel with Stainless Steel Cover installation operation video

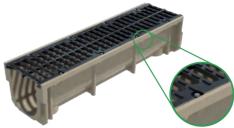


Compare	Polymer concrete drain channel	SMC trench drain channel
Material	Polymer concrete	SMC (Sheet molding compound)
Picture	William Control of the Control of th	Chilining.
Additive	Resin, sand, gravel	Unsaturated polyester resin
Forming process	Vibration or compaction process	High pressure mold filling process
Loading	A15/B125/C250/ D400/E600/F900	A15/B125/ C250/D400
Advantage	Hight strength, hight loading, low maintenance	light, cheap, middle-high strength and loading, low maintenance
Disadvantage	Heavy, a little expensive	Can not stand E600/F900 loading
Cover	Iron cast, stainless steel, polymer concrete etc	Iron cast, stainless steel, SMC etc
Product Cost	High Cost	Cost Effective

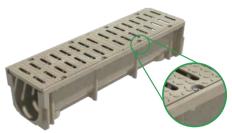
Cover lock detail

SMC polymer drain channel and iron cast cover



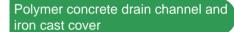


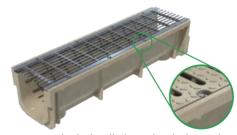




lock details by using bolts and nuts

SMC polymer drain channel and stainless steel mesh grate cover





lock details by using bolts and nuts



lock details by using bolts and nuts

Polymer concrete drain channel and iron cast cover with side protect



Moonbay SMC polymer drain channel

Code	Size	Material	inner width (mm)	inner height (mm)	outer width (mm)	outer height (mm)	spacing for cover width (mm)	weight (kgs/pc)
U-80	YBW U80-60-1000		80	45	120	60	100	3.4
	YBW U100-100-1000			65		100		4.3
U-100	YBW U100-150-1000		100	115	165	150	146	5
	YBW U150-200-1000			165		200		8
U-150	YBW U150-250-1000		150	215	220	250	200	9.2
	YBW U150-300-1000		265	265		300		11
	YBW U200-200-1000			165		200		8
U-200	YBW U200-250-1000	SMC	200	215	265	250	245	9.8
	YBW U200-300-1000			265		300		11.2
	YBW U250-250-1000			215		250		11
U-250	YBW U250-300-1000		250	265	315	300	293	12
	YBW U250-350-1000		-	315		350		14.8
	YBW U300-300-1000			275		300		14.8
U-300	YBW U300-350-1000		300	315	360	350	336	15.5
	YBW U300-400-1000			365		400		18



Installation steps



according to the channel size, put the pipe on position.





▶ Step 1: Excavate virgin soil ▶ Step 2: Cut the bottom hole ▶ Step 3: Pour the foundation with C20/25 cement, mount the channel to the foundation



▶ Step 4: Use glue to seal the connection area



► Step 5: Carry out side support of the channel with C20/25 cement



> Step 6: Lay and compact the sub-base,Lay sand and cement bedding, Lay the surface pavement.



Step 7: Install the corner with right-angle channel,



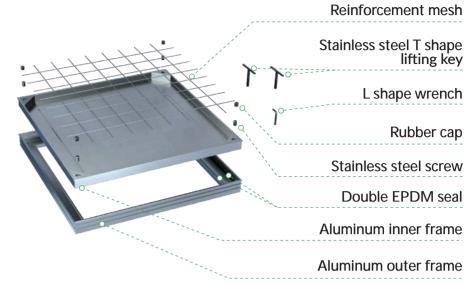
► Step 8: Repeat step 4-5



► Step 9: Repeat step 6

Manhole covers

Aluminum manhole cover

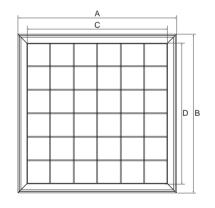


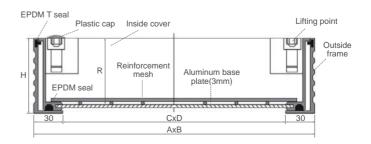
Aluminum manhole cover have many advantage over stainless manhole cover is some area, especially light loading areas. The bottom plate can be made of aluminum or galvanized steel. Aluminum is much cheaper and lighter than stainless steel, this means they are more easy and fast to install, saving a lot labor, with the seal strip, they are more quite when walking on it, and aluminum cover are 100% recyclable.



Aluminum manhole cover









Picture	Overrall Size (AxB)(mm)	Clear Opening (CxD)(mm)	Weight (kg)	Overall Depth (H)(mm)	In Tray Depth (R)(mm)
	300*300	240*240	2.35		
	400*400	340*340	4		
	500*500	440*440	5.46		
4.00	600*600	540*540	7.03	60	52
4.00 == 5.18	700*700	640*640	8.94	00	52
60.00 2.00 50.50	800*800	740*740	10.97		
3.00	900*900	840*840	13.03		
30.00	1000*1000	940*940	15.47		
	300*300	240*240	2.8		
	400*400	340*340	4.7		
	500*500	440*440	6.31		
4.00	600*600	540*540	8.03	80	72
}2.00	700*700	640*640	10.1	80	12
80.00	800*800	740*740	12.29		
3.00	900*900	840*840	14.5		
30.00	1000*1000	940*940	17.1		

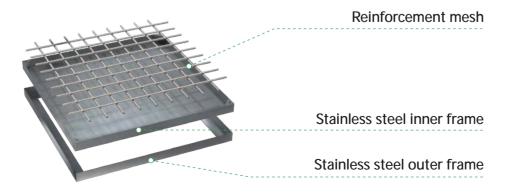
Accessories - Aluminium Manhole Cover Lifting Keys



Pair of stainless steel lifting keys, primarily for use with Moonbay aluminium manhole covers.

Stainless steel manhole cover

Stainless steel manhole covers are used in various project areas where their specific advantages. They perform excellent in some factor, such as good durability, Corrosion Resistance, Chemical Resistance, Low Maintenance, Longevity, Versatility, Fire Resistance, etc.



Compare	Aluminum manhole cover	Stainless steel manhole cover
Material	Aluminum	Stainless steel
Picture		
Loading	A15/B125/C250	A15/B125/C250/D400
Forming process	Extrusion, cut, weld, polish	Laser cut, weld, polish
Size	Length and width easy to be customized, New height require new mold	No mold required, easy to make any size and height
Advantage	Cheap, Quiet(absorb car pass sound), neat surface, low maintenance	High loading, neat surface, easy customized, low maintenance
Disadvantage	load up to C250, New height require new mold	Not as cheap and quiet as aluminum manhole cover
Application	Indoor, sidewalk, public square, garden etc	Public square, parking lot, driveway, sidewalk,garden etc

Moonbay permeable paving grid

Benefits

- High resilience (up to 800 t/m²)
- Low maintenance
- No edging needed
- Permeable ground reinforcement
- Low transport and handling costs
- Weatherproof and unbreakable
- UV-resistant and frost proof



20 years warranty



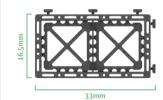
permeable paving grid





1/2 Permeable paving grid

Туре	Moonbay
Dimensions	33cm x 16.5cm x 5cm
Weight/m²	appro85kg
Dimensional stability	-50°C / 90°C
Block dimensions	140x140x50mm (pieces)
Available colors	grey,white,red,dark grey
Special	rubber inserts available





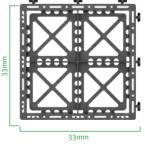






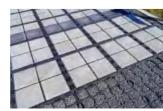


Permeable paving grid





Туре	Moonbay
Dimensions	33cm x 33cm x 5cm
Weight/m²	appro85kg
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Available colors	grey,white,red,dark grey
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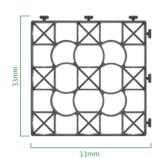






Permeable landscape grid

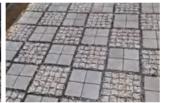
Туре	Moonbay
Dimensions	33cm x 33cm x 5cm
Dimensional stability	-50°C / 90°C
Filling	Fill with gravel-glue-mix, screed redundant material
Available colors	grey,white,red,dark grey





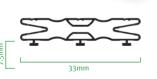








Turn accessory





Туре	Moonbay
Dimensions	33cm x 7.5cm x 5cm
Dimensional stability	-50°C / 90°C
Filling	Fill with gravel-glue-mix, screed redundant material
Available colors	grey,white,red,dark grey







permeable paving grid

Click interlocking connection



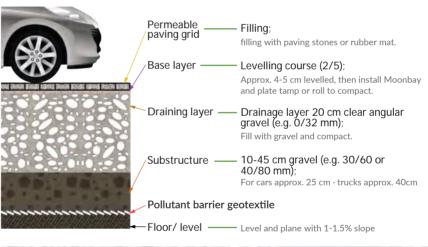


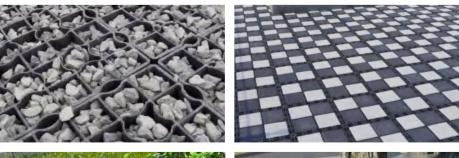
Moonbay permeable paving grid system can be installed quickly and easily without heavy construction equipment. One pack is equal to 1.33 m^2 and consists of 12 single pieces (4x3).

The weight of each pack is low and the click interlocking works quickly and easily.



Click interlocking connection



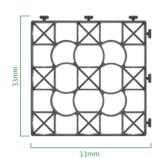






Permeable landscape grid

Туре	Moonbay
Dimensions	33cm x 33cm x 5cm
Dimensional stability	-50°C / 90°C
Filling	Fill with gravel-glue-mix, screed redundant material
Available colors	grey,white,red,dark grey





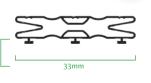






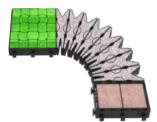


Turn accessory











permeable paving grid

Click interlocking connection



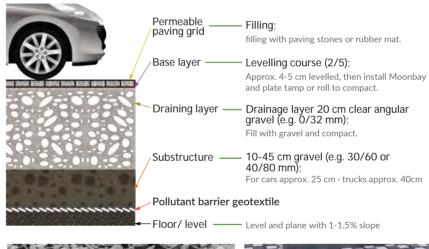


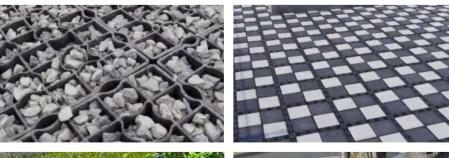
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The weight of each pack is low and the click interlocking works quickly and easily.



Click interlocking connection















Honesty



Innovation

Hangzhou Moonbay Industrial Co., Ltd

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