

Marley Surface Drainage Systems

managing excess water quickly and effectively.



SHALLOW CHANNEL SYSTEM

Material

PVC

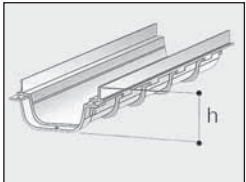
Colour

Grey

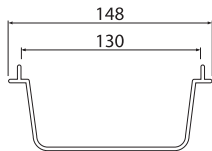
Application

The shallow channel with an overall depth of 70mm is an ideal solution where there are minimum depth requirements. Suitable for apartments, terraces, patios, decks, garden walkways, swimming pools and building entrances. The shallow channel includes a full range of grates designed to complement each application.

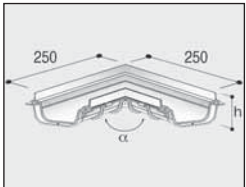
Modular Bottom-jointed Channel 130



size	h	code
130 x 500	70	1SD5074

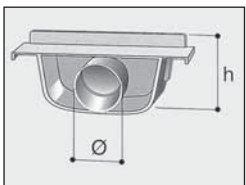


90° Channel Corner



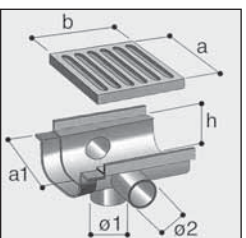
size	h	code
130 x 250 90°	70	1SD5344 Corner unit

End Outlet 130



size	ø	h	code
130	40	67	1SD5075

Side/Bottom Outlet with Grating

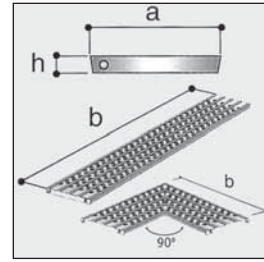


a	b	ø1	ø2	h	code
a-126	147	50	40	-	1SD5987 Grating
a1-130	147	50	40	70	1SD4213 Outlet

* Pedestrian and bicycle area

** Light vehicle (private vehicle/motorcycle) driving at no more than 30km/per hour, when installed according to the product installation instructions.

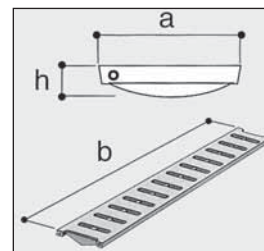
Swimming Pool Grate 130 x 500



*Non trafficable item

size	a	b	h	code	
130 x 500	128	500	31	1SD5720	
130 x 250	128	250	90°	31	1SD3281

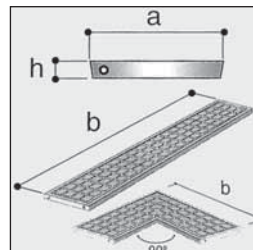
Trafficable Grate



**Trafficable item: Loading 1.5 tonne per wheel

size	a	b	h	code
130 x 500	128	500	38.5	1SD4745

Cable Duct Cover 130 x 500



*Non trafficable item

The cover should preferably be fitted on appropriate 130 x 500 channel, in situations where the channel is used not as a water collector, but as a cable duct requiring frequent inspection.

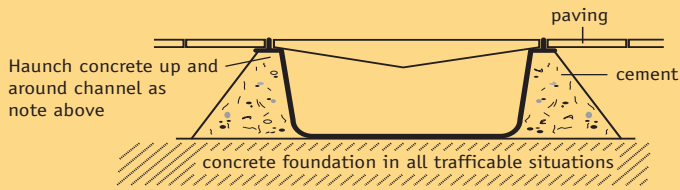
size	a	b	h	code	
130 x 500	128	500	23	1SD5790	
130 x 250	128	250	90°	23	1SD4495



SHALLOW CHANNEL SYSTEM

Installation Instructions

To ensure good performance, lay on a concrete foundation, taking care to concrete around the channel without leaving any empty spaces in the area below the section where the grating is fitted.



- 1. Channel:** Ensure channel is clean and free of dirt, apply PVC solvent cement to guillotine-style joint, then clip channel together into locating lugs/holes on an adjoining channel.
- 2. Grating Cover:** Screw down grating/cover through marked fixed recesses into channel.
- 3. End Cap Outlet:** Fitted with dia 40 drain, designed to be used as a closed header, but so that the drain can be activated at any time by rupture of the wall element at the weak point on the header. Attachment is by PVC solvent. (refer figure 3)
- 4. Side/Bottom Outlet with 130 Grating:** Used wherever an intermediate drainage point is required (horizontal dia 40 or vertical dia 50). Attachment is by PVC solvent. (refer figure 4)
- 5. 45° Angle Corner with 130 Grating:** Like the joint, it is located in the channel and allows alignment changes in the channel with grating in multiples of 45°. All junctions have guillotine-style joints. Attachment is by PVC solvent. (refer figure 5)

figure 3

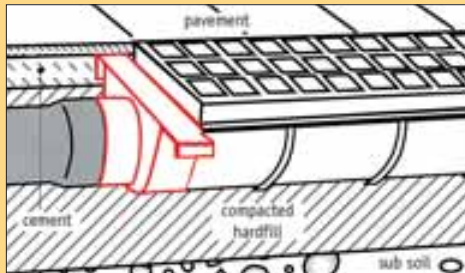


figure 4

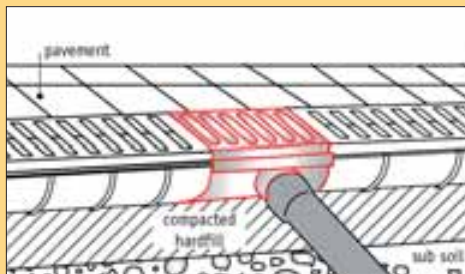
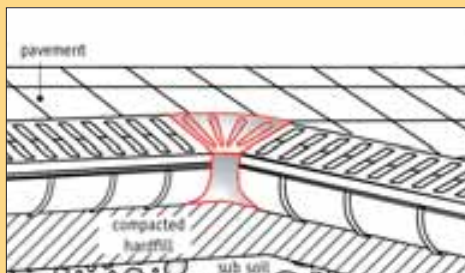


figure 5



130MM CHANNEL SYSTEM

Material

Polypropylene

Colour

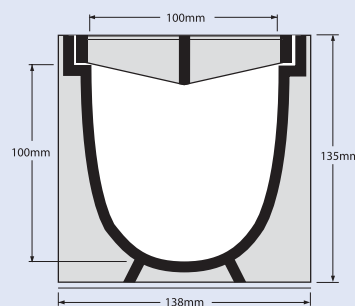
Black

Application

The 130mm Channel and Grate system is designed for surface water drainage around the home and garden. The 1.5 tonne wheel loading makes it ideal for use in home driveways, garage entrances, patios, gardens and outdoor entertainment areas. It is lightweight, easy to install and available in 1 and 3 metre lengths. As part of the range, a junction pit (250mm x 250mm) can be connected to the channel for easy maintenance access. Available in black.

Features & Benefits

- 'U' shaped 130 channel giving high water flow and easy cleaning
- Simple jointing system – male and female joiners slide together to maintain alignment
- Specially designed large feet provide anti-float properties when being installed
- Cost effective
- Strong and robust
- Available in 1m and 3m lengths
- Easy to install
- Levelled and aligned to give professional finish



130MM CHANNEL SYSTEM

130mm Modular M+F Jointed Channel



size	length (m)	code
130	1	1SDCGB130
130	3	1SDCGB130.3

**Trafficable item: Loading
1.5 tonne per wheel

End Cap



size	code
130 x 125	1SDSTB130

Combination Outlet/Stopend



size	code
90mm inside	1SDADB100
100mm outside	

45° Corner



size	code
130 x 125	1SDBCB130

Female Joiner



size	code
130 x 125	1SDFFSPB
For connecting two male ends together	

Male Joiner



size	code
130 x 125	1SDMMSPB
For connecting two female ends together	

Pit



size	h	code
Pit		
250 x 250	300	1SDCBB250
Grate		
250 x 250		1SDGRB250 polypropylene
250 x 250		1SDGRA250 aluminium

This junction box is suitable for collecting rainwater from downpipes or connecting with a channel system.

**Trafficable item: Loading
1.5 tonne per wheel

* Pedestrian and bicycle area

** Light vehicle (private vehicle/motorcycle) driving at no more than 30km/per hour, when installed according to the product installation instructions.

Installation Instructions

Sufficient slope in the paving and channel should always be determined prior to installation to accommodate desired water run-off. The channel should not be installed along the line of the vehicle wheel travel.



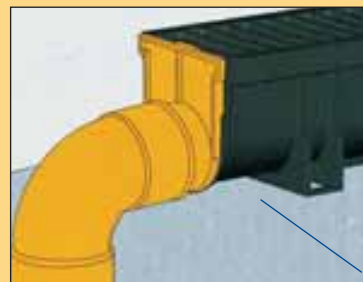
Dig Trench - compact GAP7, backfill and level



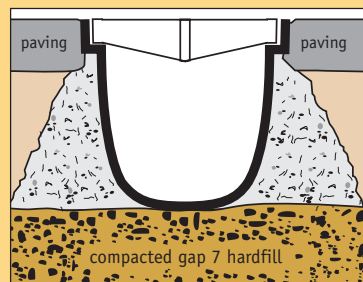
Place channel in trench



Engage all modules including bends before backfilling



Connect outlet



Always backfill with concrete with the grating fitted

Haunch concrete up and around channel without leaving any empty spaces in the area below the section where the grating is fitted in all trafficable situations

200MM CHANNEL SYSTEM

Material

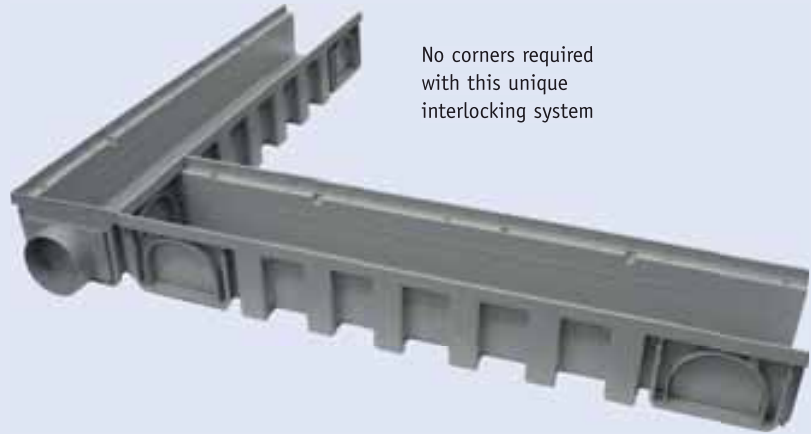
Channel - Polypropylene,
Grates - PVC

Colour

Grey

Application

The 200mm Channel and Grate is designed as a high capacity system around the home and garden. Its large size makes it ideal for use in areas where large volumes of water need to be drained quickly, especially in steep areas. This channel system is available with grey or sand coloured grate options.

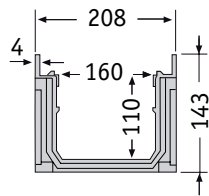


No corners required
with this unique
interlocking system

200mm Modular M+F Jointed Channel



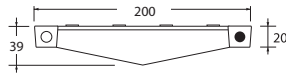
size	length (mm)	code
130 x 125	1000	1SDCAN88.1



Grate



length (mm)	code
500	1SDGR88 - grey
500	1SDGR88S - sand

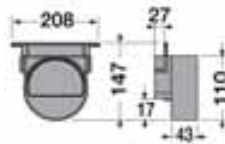


**Trafficable item: Loading
1.5 tonne per wheel

End Outlet



code
1SDNA88.1



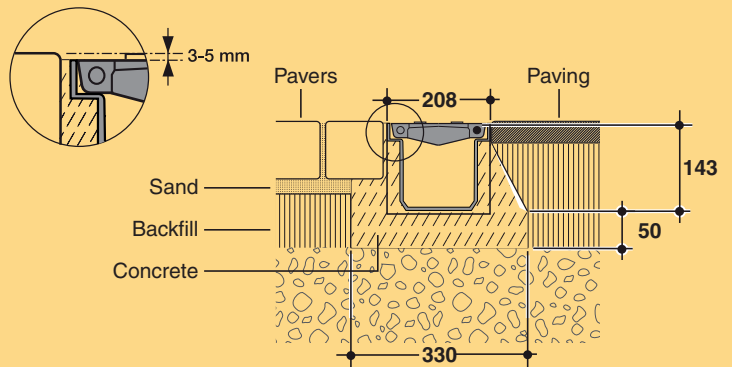
Fixings



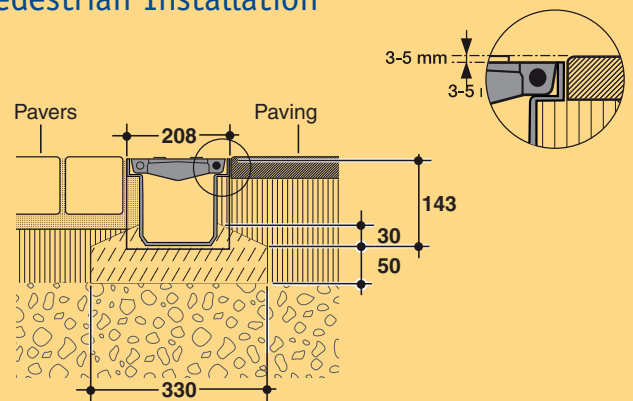
product	pack qty	code
1 screw & 1 insert	10	1SDFIXCAN2

Note: Screw the insert
using a hex head Allen key

Trafficable Installation



Pedestrian Installation



The concrete bed and the concreting have to be realised according to the above shown sketches. A concrete quality of 200kg/m³ is recommended for the two types of installation.

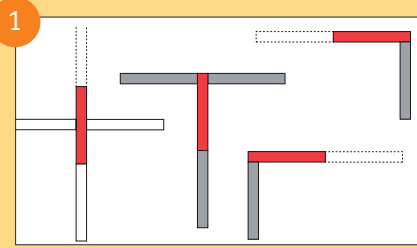
For a trafficable installation the concrete should be haunch till the lowest point of the edge of the channel.

* Pedestrian and bicycle area

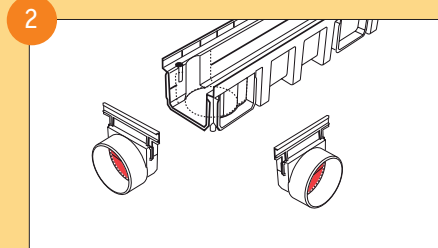
** Light vehicle (private vehicle/motorcycle) driving at no more than 30km/per hour, when installed according to the product installation instructions.

200MM CHANNEL SYSTEM

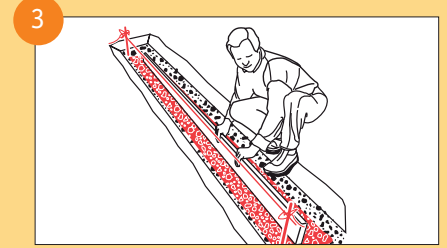
200mm Channel System Installation Instructions



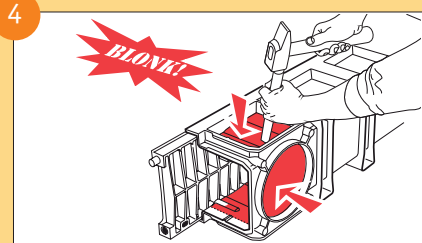
Various possibilities of connections with angles at 90° can easily be made (the red part has to be fitted last).



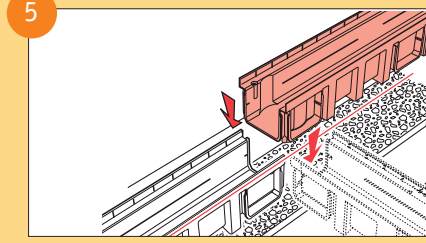
Determine the outlet unit to be used and its position in order to ensure the connection to the rainwater pipe works.



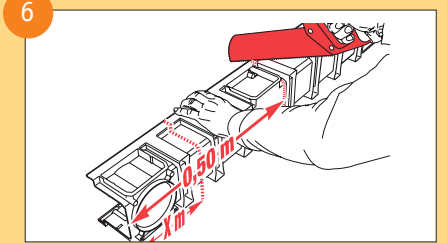
Dig a trench with adapted measures (10cm around the channels). Realise the concrete bedding according to the required depth.



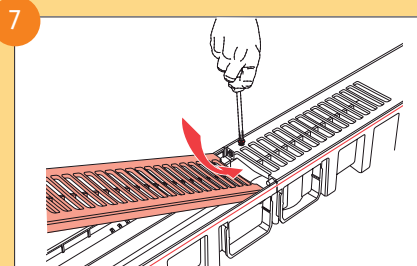
Hammer the desired outlet in and put into position the required outlet/stop end fitting.



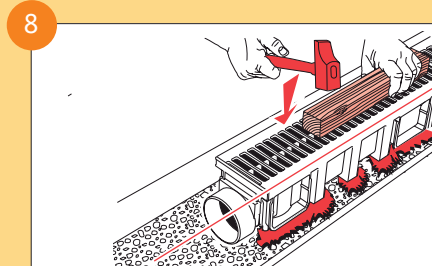
The sections of the channels which fit to each other thanks to a male/female interlocking system have to be laid on the concrete bedding.



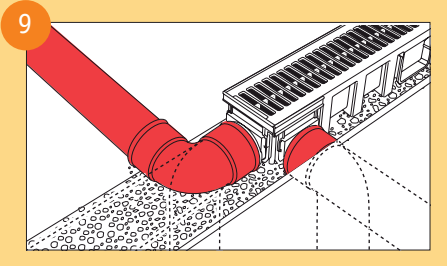
If needed, cut the last element of the channel to adapt to the required length.



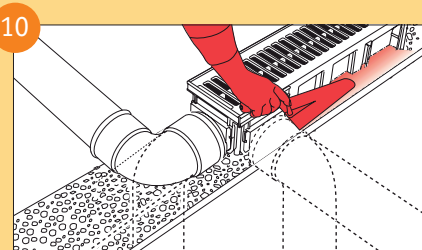
Install U-PVC gratings. *To attach your grate to your channel please see instructions below.



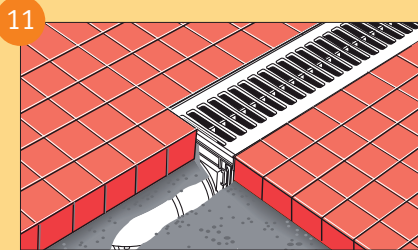
Push the channel in a few mm to get a good support with the concrete foundation.



Connect the channel to the stormwater pipe.



Realise concrete haunchings to prevent lateral forces acting on sidewalls.



Fill in and make the finishing with paving for instance. The ground level should be 3mm above the grating one.

*Note:

1. Channel – Place 4 inserts per metre channel using a hex head Allen key.
2. Grates – Using a drill clear the 2 pre drilled holes on the grate, then fix the grate to the channel with the screws supplied.

ACCESS PITS

Material

PVC

Colour

Grey

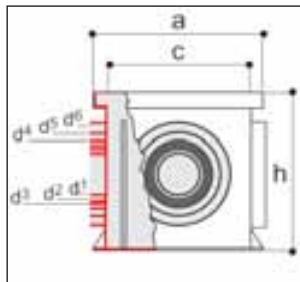
Application

The range is designed both as a stormwater collection pit and an access point to clear obstructions in case of stormwater pipes blocking.

The access pit range is available in sizes from 200mm x 200mm to 550mm x 550mm and in outlet sizes from 63mm to 315mm.



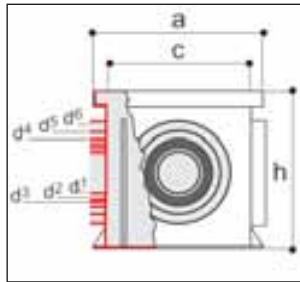
Access Pit



size	a	c	h	d1	d2	d3	d4	d5	d6	capacity	code
200x200	161	200	75*	90	110	-	-	-	-	4.48L	1SD5068
300x300	253	297	75*	90	110	125*	160	-	-	16.8L	1SD5069
400x400	355	397	100*	125*	140*	160	200	250	-	44.7L	1SD5242
550x550	500	520	160	200	250	315	-	-	-	120.0L	1SD5128

* These are non-standard sizes. To connect, go up to next standard size and use a DWV Level Invert Reducer to get back down to the required pipe size.

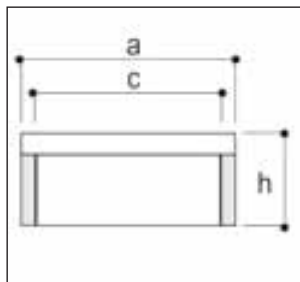
Large Riser



size	a	c	h	d1	d2	d3	d4	d5	d6	code
200x200	161	200	75*	90	110	-	-	-	-	1SD5071
300x300	253	297	75*	90	110	125*	160	-	-	1SD5072
400x400	355	397	100*	125*	140*	160	200	250	-	1SD5245
550x550	500	520	160	200	250	315	-	-	-	1SD4887

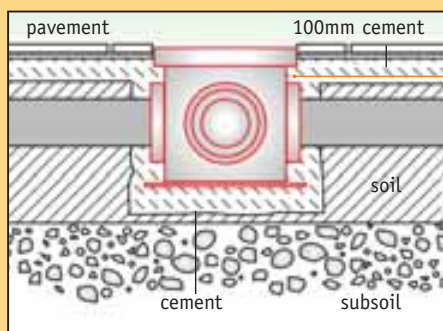
* These are non-standard sizes. To connect, go up to next standard size and use a DWV Level Invert Reducer to get back down to the required pipe size.

Short Riser

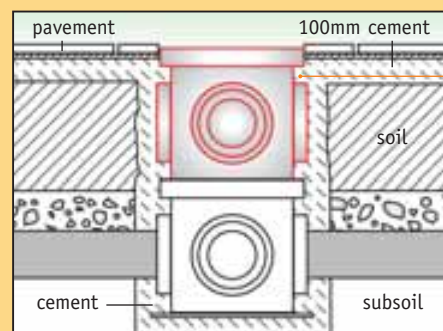


size	a	c	h	code
300x300	253	300	100	1SD5721
400x400	355	400	100	1SD5722
550x550	500	550	315	1SD5723

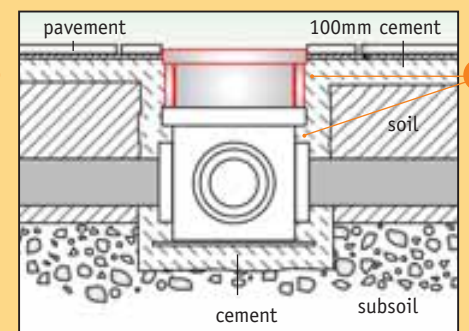
Installation of Access Pit



Installation of Large Riser



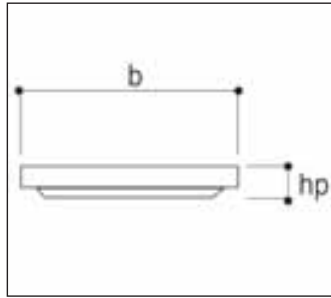
Installation of Short Riser



1 - Haunch concrete up under shoulder of pit and riser where the lid or riser is fitted, leaving no empty spaces in all trafficable situations

ACCESS PITS

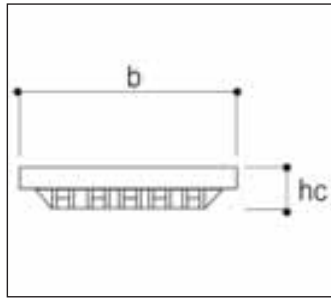
PVC Pedestrian Grate



size	b	hp	code
200x200	187	25	1SD4725
300x300	284	30	1SD4726
400x400	383	35	1SD4727
550x550	539	45	1SD4893

*Non trafficable item

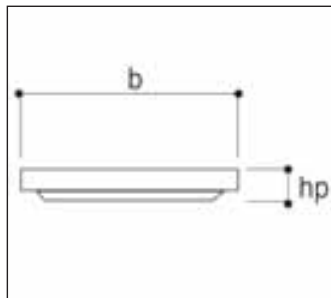
PVC Trafficable Grate



size	b	hc	code
200x200	187	35	1SD1769
300x300	284	45	1SD1923
400x400	383	55	1SD2022
550x550	539	65	1SD4781

**Trafficable item: Loading
1.5 tonne per wheel

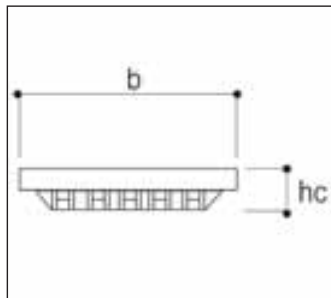
PVC Pedestrian Lid



size	b	hp	code
200x200	187	25	1SD4728
300x300	284	30	1SD4729
400x400	383	35	1SD4730
550x550	539	45	1SD4896

*Non trafficable item

PVC Trafficable Lid



size	b	hc	code
200x200	187	35	1SD1759
300x300	284	45	1SD1924
400x400	383	55	1SD1948
550x550	539	65	1SD4782

**Trafficable item: Loading
1.5 tonne per wheel

* Pedestrian and bicycle area

** Light vehicle (private vehicle/motorcycle) driving at no more than 30km/per hour, when installed according to the product installation instructions.

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