

**Channel Drainage Systems**

**Product Guide**



FOR RESIDENTIAL  
AND LIGHT COMMERCIAL  
APPLICATIONS

## OSMA

## From Wavin

OSMA, from Wavin Plastics Limited, is the leading name in plastic systems for building, construction and utilities. The OSMA product range is unrivalled in scope and quality, covering:

- ▲ Above Ground systems
- ▲ Plumbing and Heating systems
- ▲ Below Ground Drainage systems
- ▲ Water Management systems
- ▲ Ducting systems
- ▲ Water and Gas Distribution systems

**Quality assured products**

OSMA systems are the benchmark for excellence and product innovation: precision-manufactured in the UK using the most advanced injection moulding and extrusion machines. All products comply with or exceed relevant British and European standards to ensure reliability and long-lasting service.

**Intelligent connections**

OSMA systems offer integrated solutions. This enables specifiers and installers to assemble complete drainage, plumbing and heating, and pressure pipe systems from a single source, with complete confidence in compatibility and performance.

All systems are backed by comprehensive technical support and a nationwide distribution network to ensure availability when and where required.

Wavin is a leading European manufacturer of industrial plastic products, and one of the largest producers of plastic pipe and fittings in the world.

Wavin is credited with inventing and pioneering the use of plastic pipe for water distribution in the mid 1950s. Constant research and development has enabled Wavin to maintain its position at the forefront of plastics technology.

**Environmental responsibility**

Wavin Plastics Limited has BS EN ISO 9001: 2000 BSI status and was the first plastic pipe manufacturer to be accredited to BS EN ISO 14001 Environmental Management Systems.

Wavin Plastics Limited is committed to environmental responsibility, and is a leading pioneer of systems to conserve and control water. In production, the Company recycles the majority of waste materials, and sets annual targets for energy efficiency audited by the certifying body.

**Passion and resourcefulness**

All Wavin personnel are committed to providing a comprehensive, responsive service – and are passionate about delivering total Customer satisfaction.

Wavin Plastics Limited maintains an industry-wide dialogue and rigorous assessment of all procedures to ensure that Wavin product development and product support accurately addresses the needs of all Customers – today and into the future.



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### Further information

The following related publications are available for OSMA Channel Drainage Systems:

- ▲ Trade Price List
- ▲ System Selector
- ▲ Technical Data Sheet
- ▲ Nearest Equivalent Guide
- ▲ Design and Installation Guide

To obtain copies, please contact:

#### Literature requests

**Tel: 01249 766333**

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**literature@wavin.co.uk**

### General introduction



The Wavin PolyChannel range of polymer concrete channel drainage products offer a complete and integrated surface water drainage system for all applications. PolyChannel is suitable for any application where surface water requires transportation for disposal or recycling

from supermarkets to sports stadia, bridges to bus depots, footways to airports, hospitals to food processing plants, car parks as well as domestic driveways and cycle paths.

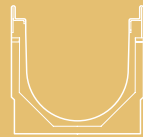
Available in widths of 100mm, 150mm, 200mm and 300mm, the Wavin PolyChannel system offers a range of flat channels and slopes for medium and heavy duty applications. With a wide range of gratings and a full range of accessories, PolyChannel will satisfy the requirements of any channel drainage application.

### Wavin PolyChannel Systems SK/SKS/SPQ

#### PolyChannel SK

**General Purpose Channel**  
NW 100/150/200/300  
Up to class E600

NW100 includes SK Piccolo – shallow channels for restricted depth construction and SKCR standard and Piccolo channels with stainless steel edges for use with stainless steel or plastic gratings for use in food preparation areas for example.



#### PolyChannel SKS

**Heavy Duty Channel**  
NW 100/150/200/300  
Up to class F900

NW100 includes SKS Piccolo – shallow channels for restricted depth construction.



#### PolyChannel SPQ

**Heavy Duty Channel (complete with polymer concrete top bonded to the channel)**  
NW 100/200  
Up to class F900 (Dynamic loading)



# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

## Loading Summary • Classifications

### Wavin PolyChannel Range Loading Summary

System	100	150	200	300
SK	B,C,E	C,E	C,E	E
SKCR	C,E	-	-	-
SK Piccolo	B,C,E	-	-	-
SKCR Piccolo	C,E	-	-	-
SKS	F	F	F	F
SKS Piccolo	F	-	-	-
SPQ	F	-	F	-

#### Class/Loading

B = 125kN

C = 250kN

E = 600kN

F = 900kN

**Note:** Flat channels are available in all lines.  
Sloped channels are also available in:

SK NW100,  
SKCR NW100,  
SKS NW100.

Flat channels



Sloped channels

(i.e. with 0.6% built in fall)



Stepped channels



### Load Classifications to DIN 19580



**A15**

Foot traffic, domestic driveway and cycle use.



**B125**

Restricted car parks, pedestrian, precinct and footway use.



**C250**

Roadway (kerbside) drainage, garage forecourt, light commercial vehicle, pedestrianised street and car park use.



**D400**

Roadway drainage for fast moving vehicles.



**E600**

Industrial and commercial areas of high imposed loadings and heavy slow-moving vehicle use, except for areas where vehicles turn.



**F900**

Exceptional (off-road vehicle) imposed loadings, airport and taxiway use. Also roadways (cross carriageways) and where industrial vehicles and forklifts turn.

## Applications

The PolyChannel range is suitable for any application where surface water requires transportation. The summary table below provides an overview of just some of the typical applications, along with details of recommended channel systems and gratings available to suit.

\* **Note:** For further information regarding OsmaChannel (Domestic Channel Drainage System), please contact Wavin's Sales Office on 01249 766688.

Application	Channel	Loading Class	Recommended Grating
Domestic Channel / Housing	OsmaChannel *	A	Grating supplied c/w channel
Cycle Paths	SK	B	Galvanised slotted
Car Parks - Restricted / Small Domestic	SK	B	Galvanised slotted
Car Parks - Commercial / Industrial / Retail	SK	C	Cast slotted heel or standard
Petrol Stations / Forecourts	SK SKS/SKSH	C/E F	Cast slotted heel or standard / ductile slotted Grating supplied c/w channel
Industrial / Factories, etc - non-loading	SK	B	Galvanised slotted
Industrial / Factories, etc - loading (non-turning)	SK	E	Ductile slotted
Industrial / Factories, etc - loading (turning)	SKS	F	Grating supplied c/w channel
Industrial - Food / Chemical	SKCR	C/E	PolySpectra / stainless steel slotted
Pedestrian Areas / Shopping Precincts	SK	C	Cast slotted heel / PolySpectra
Sports Stadium - Concourses	SK	B	Galvanised slotted
Sports Stadium - Car Parks	SK	C	Cast slotted heel or standard / galvanised slotted
Shower Areas	SKCR	C	PolySpectra
Warehouse / Dock Areas - loading (non-turning)	SK	E	Ductile slotted
Warehouse / Dock Areas - loading (turning)	SKS	F	Grating supplied c/w channel
Motorway Crossovers	SPQ	F	One piece unit
Lorry Parks	SPQ/SKS	F	One piece unit / grating supplied c/w channel
Airports	SKS/SKSH	F	Grating supplied c/w channel

### Benefits of PolyDyn® Polyester Concrete

All PolyChannel products are manufactured from PolyDyn® polyester concrete, an exceptional material offering the following outstanding properties.



#### **Chemical Resistance**

PolyDyn® is non-porous with a sealed and capillary-free structure making it naturally resistant to most chemicals within the pH range 3-9.



#### **Ageing Resistance**

PolyDyn® components have a life expectancy exceeding that of traditional concrete products.



#### **Low Water Absorption**

PolyDyn® has a water absorption rate of less than 0.5%, therefore ensuring that it is frost proof.



#### **Physical Qualities**

PolyDyn® products are up to 75% lighter than traditional concrete products making them easy to transport and install, and can be easily machined, cut and drilled on site.



#### **Mechanical Properties**

Compressive strength approx. 90 N/mm<sup>2</sup>, bending strength approx. 22 N/mm<sup>2</sup>, thermal expansion approx. 0.018mm/m/°C.



#### **Environmentally Friendly**

PolyDyn® is a totally inert material and can therefore be used with confidence. Wavin's highly efficient manufacturing processes ensure that waste is kept to a minimum and recycled where possible.

## Benefits of the PolyChannel range



### Ease of Handling and Storage

Due to the lightweight, modular nature of the channels, they can be easily stacked during storage and transportation – offering enormous potential savings.



### Self-Cleaning Effect

The mirror smooth internal finish and the pre-formed gradients of the sloped channels (with a built-in fall of 0.6%) greatly enhances the self-flushing properties of the channel surface.



### Ease of Installation

To assist in installation each channel has male and female ends, which eliminates the possibility of error whilst making the alignment and makes sealing easier to achieve.



### Combination Junctions

To enable greater installation flexibility, flat channels for corners and T-junctions are available.



### Frost Anchors

Anchoring ribs run the full length of the channels. Therefore, even in extreme temperatures the units will be held in place, eliminating the risk of lifting.



### Versatility

The PolyChannel range offers the complete system for any drainage application. All systems have smooth straight outside walls enabling quick and easy installation, into areas finished in either concrete, asphalt or block paving.



### Proven Locking Systems

The SK range incorporates the patented Red Dot vibration damping locking system, which ensures that the grates are secured in place during vehicular override. The SKS range benefits from the unique, boltless locking device – PolyLock®, which has no metallic or moving parts that could corrode. The PolyLock® enables the heavy duty armour coated gratings to be fixed to the channels in seconds.

## Standards and Approvals

The Wavin PolyChannel range is manufactured under a Quality Management System, accredited to BS EN ISO 9002:1994. In addition the following approvals apply:



### Enhanced Steel Edges

The SK range (NW 150, 200 and 300) with enhanced steel edges meets the requirements of the European Standard EN 1433.



### DIN 19580 Compliance

The loading classifications of SK and SKS gratings comply with DIN 19580.

### Introduction to SK PolyChannel SK NW 100 150 200 300

#### PolyChannel SK

The newly enhanced PolyChannel SK includes a range of extremely versatile medium duty, general purpose channel systems. The SK range is available in widths of 100mm in flat and sloped channels, 150mm, 200mm and 300mm in flat channels only. Suitable for all drainage situations in the loading class range of A15 - E600.

The channel incorporates full length galvanised steel edges\* for extra strength, meeting the requirements of EN 1433 (NW100 for load classes up to and including C250 only).

\*SK NW100 channel is available with stainless steel edges (SKCR and SKCR Piccolo) for use with stainless or plastic gratings for use in industrial food preparation areas for example.



#### PolyChannel SK Piccolo

Shallow channel system available in 100mm widths developed for multi-storey parking facilities, flat roofs and other restricted depth construction areas.

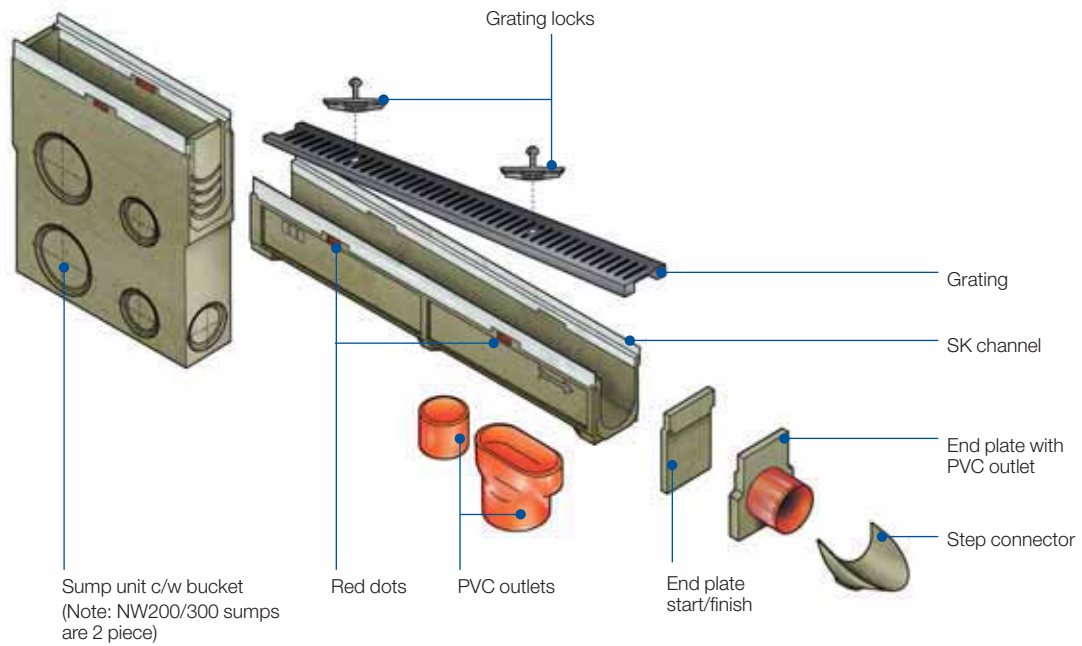


#### Accessories and Gratings

A wide range of gratings and accessories are available to complement the SK range. Including purpose designed sump units which enable simple connection to main sewers which are fitted with buckets to collect debris. Alternatively, channels can be drained via vertical outlets or through end plate outlets.



**Basic Components**



**Specialist Features**

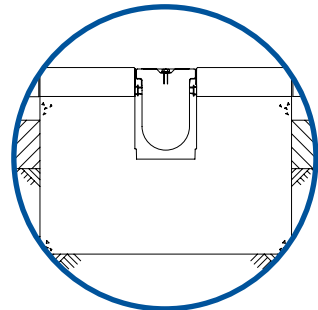
**Steel Edge**

PolyChannel SK has protective galvanised or stainless steel edges bonded along the full length of the channel.



**Profile**

Modular style channels with smooth, straight sides ensuring quick and easy installation into areas finished in either concrete, asphalt or block paving.



**Red Dot Locking System**

The Red Dot vibration damping security system enables secure anchorage of the grating against vehicular override. The specific benefits of the patented Red Dot system are:

- ✓ **Fully proven locking system**
- ✓ **Not susceptible to dirt and corrosion**
- ✓ **The crossbar is automatically anchored inside the Red Dot**
- ✓ **Fragmentation of the PolyDyn® in the fixing area is greatly reduced due to the resistance and the shock absorbing effect of the Red Dots.**



# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

PolyChannel SK NW100 150 200 300

## Loading Classes

The PolyChannel SK range can be used for applications up to class E600.



## Gratings

There are a wide variety of in-lay style gratings available with loading class ratings of B,C and E for all medium, general purpose applications. Gratings include:

- slotted**
  - Galvanised steel
  - Stainless steel
  - Cast iron
  - Cast iron – PolyHeel\*
  - Ductile iron
  - Composite plastic (PolySpectra)

- solid**
  - Z tread chequer plate

Galvanised steel ('standard') and stainless steel locks are available for SK and SK Piccolo.

\* **Note:** The PolyHeel grating is designed for pedestrian and shopping area drainage applications, where the use of high heels and small wheeled traffic (e.g. shopping trolleys) need to be accommodated. The size and configuration of the PolyHeel grating prevents narrow heels or small wheels being caught within the slots.

## Applications

PolyChannel SK can be used in most situations with a loading class of up to E600 including:

- ✓ **Footpaths**
- ✓ **School yards**
- ✓ **Garage driveways**
- ✓ **Car parks**
- ✓ **Playgrounds**
- ✓ **Environmental areas**

## Specification Clause

Surface drainage shall be Wavin PolyChannel SK NW 100/150/200/300 system as manufactured by Wavin Plastics Limited, in accordance with the requirements of BS EN ISO 9002 (Quality Assurance). The drainage system shall be manufactured from polyester concrete, incorporating full length anchoring ribs and shall have the Red Dot vibration security system (E.P.0112287) to enable adequate securing of the gratings against vehicular override. The system shall have galvanised steel or stainless steel edges cast into the channels along their full length. PolyChannel SK must be installed according to the manufacturer's instructions.

**PolyChannel SK channels**

■ NW100 ■ Loading Class A-E ■ Flat  & 0.6% Sloped  & Stepped 

- ▲ 100SK010 1.0m, sloped, 130 - 136mm overall height
- ▲ 100SK020 1.0m, sloped, 136 - 142mm overall height
- ▲ 100SK021 1.0m, flat, 142mm overall height
- ▲ 100SK022 0.5m, junction, 142mm overall height
- ▲ 100SK030 1.0m, sloped, 142 - 148mm overall height
- ▲ 100SK040 1.0m, sloped, 148 - 154mm overall height
- ▲ 100SK050 1.0m, sloped, 154 - 160mm overall height
- ▲ 100SK060 1.0m, sloped, 160 - 166mm overall height
- ▲ 100SK070 1.0m, sloped, 166 - 172mm overall height
- ▲ 100SK080 1.0m, sloped, 172 - 178mm overall height
- ▲ 100SK090 1.0m, sloped, 178 - 184mm overall height
- ▲ 100SK100 1.0m, sloped, 184 - 190mm overall height
- ▲ 100SK101 1.0m, flat, 190mm overall height
- ▲ 100SK102 0.5m, junction, 190mm overall height
- ▲ 100SK110 1.0m, sloped, 190 - 196mm overall height
- ▲ 100SK120 1.0m, sloped, 196 - 202mm overall height
- ▲ 100SK130 1.0m, sloped, 202 - 208mm overall height
- ▲ 100SK140 1.0m, sloped, 208 - 214mm overall height
- ▲ 100SK150 1.0m, sloped, 214 - 220mm overall height

- ▲ 100SK160 1.0m, sloped, 220 - 226mm overall height
- ▲ 100SK170 1.0m, sloped, 226 - 232mm overall height
- ▲ 100SK180 1.0m, sloped, 232 - 238mm overall height
- ▲ 100SK190 1.0m, sloped, 238 - 244mm overall height
- ▲ 100SK200 1.0m, sloped, 244 - 250mm overall height
- ▲ 100SK201 1.0m, flat, 250mm overall height
- ▲ 100SK202 0.5m, junction, 250mm overall height

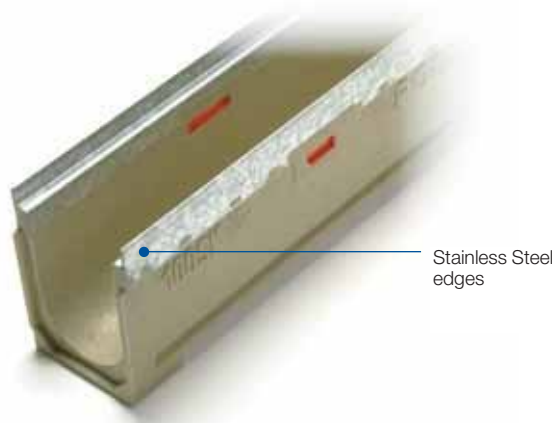


**PolyChannel SKCR (Stainless Edge) channels**

■ NW100 ■ Loading Class A-E ■ Flat  & 0.6% Sloped  & Stepped 

- ▲ 100SKCR010 1.0m, sloped, 130 - 136mm overall height
- ▲ 100SKCR020 1.0m, sloped, 136 - 142mm overall height
- ▲ 100SKCR021 1.0m, flat, 142mm overall height
- ▲ 100SKCR022 0.5m, junction, 142mm overall height
- ▲ 100SKCR030 1.0m, sloped, 142 - 148mm overall height
- ▲ 100SKCR040 1.0m, sloped, 148 - 154mm overall height
- ▲ 100SKCR050 1.0m, sloped, 154 - 160mm overall height
- ▲ 100SKCR060 1.0m, sloped, 160 - 166mm overall height
- ▲ 100SKCR070 1.0m, sloped, 166 - 172mm overall height
- ▲ 100SKCR080 1.0m, sloped, 172 - 178mm overall height
- ▲ 100SKCR090 1.0m, sloped, 178 - 184mm overall height
- ▲ 100SKCR100 1.0m, sloped, 184 - 190mm overall height
- ▲ 100SKCR101 1.0m, flat, 190mm overall height
- ▲ 100SKCR102 0.5m, junction, 190mm overall height
- ▲ 100SKCR110 1.0m, sloped, 190 - 196mm overall height
- ▲ 100SKCR120 1.0m, sloped, 196 - 202mm overall height
- ▲ 100SKCR130 1.0m, sloped, 202 - 208mm overall height
- ▲ 100SKCR140 1.0m, sloped, 208 - 214mm overall height
- ▲ 100SKCR150 1.0m, sloped, 214 - 220mm overall height

- ▲ 100SKCR160 1.0m, sloped, 220 - 226mm overall height
- ▲ 100SKCR170 1.0m, sloped, 226 - 232mm overall height
- ▲ 100SKCR180 1.0m, sloped, 232 - 238mm overall height
- ▲ 100SKCR190 1.0m, sloped, 238 - 244mm overall height
- ▲ 100SKCR200 1.0m, sloped, 244 - 250mm overall height
- ▲ 100SKCR201 1.0m, flat, 250mm overall height
- ▲ 100SKCR202 0.5m, junction, 250mm overall height



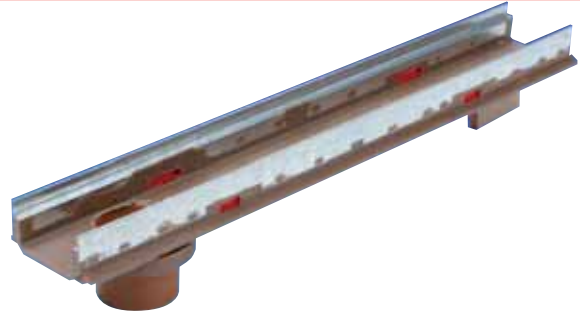
# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

Product Range – PolyChannel SK NW100

## PolyChannel SK Piccolo channels

■ NW100 ■ Loading Class A-E ■ Flat ■ 

- 100SKP070 1.0m, flat, 70mm overall height
- 100SKP071 1.0m, flat, c/w PVC outlet - 110mm, 70mm overall height
- 100SKP100 1.0m, flat, 100mm overall height
- 100SKP101 1.0m, flat, c/w PVC outlet - 110mm, 100mm overall height



## PolyChannel SKCR (Stainless Edge) Piccolo channels

■ NW100 ■ Loading Class A-E ■ Flat ■ 

- 100SKPCR070 1.0m, flat, 70mm overall height
- 100SKPCR100 1.0m, flat, 100mm overall height



**PolyChannel SK accessories**

**PolyChannel SK end plates**

- ▲ 100SK106 End plate for channels 100SK010 - 100SK102
- ▲ 100SK206 End plate for channels 100SK110 - 100SK202
- ▲ 100SK058 End plate + PVC outlet, Ø110mm, for channel 100SK050
- ▲ 100SK108 End plate + PVC outlet, Ø110mm, for channels 100SK100 - 100SK102
- ▲ 100SK158 End plate + PVC outlet, Ø110mm, for 100SK150
- ▲ 100SK208 End plate + PVC outlet, Ø110mm, for channels 100SK200 - 100SK202
- ▲ 100SKP006 End plate for Piccolo channels 100SKP070/100SKP071
- ▲ 100SKP007 End plate for Piccolo channels 100SKP100/100SKP101



**PolyChannel SK PVC outlets**

- ▲ 100SK820 PVC outlet, Ø110mm, round
- ▲ 100SK821 PVC outlet, Ø160mm, round
- ▲ 100SK822 PVC outlet, Ø160mm, oval
- ▲ 100SK824 PVC outlet, Ø110mm, odour trap
- ▲ 100SK825 PVC outlet, Ø160mm, odour trap



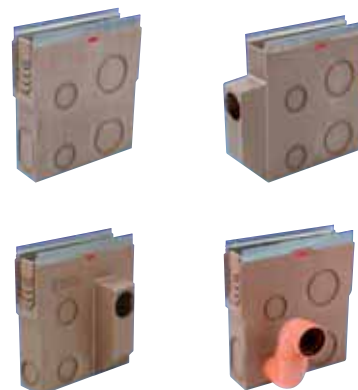
**PolyChannel SK step connectors**

- ▲ 100SB098 48mm step
- ▲ 100SB099 60mm step



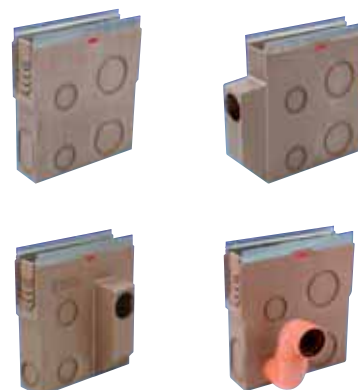
**PolyChannel SK sump**

- ▲ 100SK900 Sump with galvanised bucket, 0.5m (nominal length)
- ▲ 100SK901 Sump with galvanised bucket, end trap and rodding eye, 0.5m (nominal length)
- ▲ 100SK902 Sump with galvanised bucket, end trap and rodding eye, 0.5m (nominal length)
- ▲ 100SK905 Sump with galvanised bucket, with Ø160mm PVC odour trap, 0.5m (nominal length)



**PolyChannel SKCR sump (stainless edge)**










- ▲ 100SKCR900 Sump with galvanised bucket, 0.5m (nominal length)
- ▲ 100SKCR901 Sump with galvanised bucket, end trap and rodding eye, 0.5m (nominal length)
- ▲ 100SKCR902 Sump with galvanised bucket, end trap and rodding eye, 0.5m (nominal length)
- ▲ 100SKCR905 Sump with galvanised bucket, with Ø160mm PVC odour trap, 0.5m (nominal length)



# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

Product Range – PolyChannel SK NW100

## PolyChannel SK gratings

Type	Part No.	Locks		Loading Class	Weight Kg	Nominal Length
		Standard	Piccolo			
<b>Slotted Galvanised Steel</b> 	100SK420	100SK810	100SKP810	B	2.72	1.0m
	100SK422	100SK810	100SKP810	B	1.36	0.5m
<b>Slotted Galvanised Steel Reinforced</b> 	100SK424	100SK810	100SKP810	C	4.91	1.0m
	100SK426	100SK810	100SKP810	C	2.39	0.5m
<b>Slotted Stainless Steel Reinforced</b> 	100SK425	100SK807	100SKP807	C	5.16	1.0m
	100SK427	100SK807	100SKP807	C	2.39	0.5m
<b>PolySpectra Composite Grating</b> 	100SK581 (black)	100SK805	100SKP805	C	1.35	0.5m
	100SK584 (white)	100SK805	100SKP805	C	1.35	0.5m
	100SK585 (beige)	100SK805	100SKP805	C	1.35	0.5m
	100SK586 (grey)	100SK805	100SKP805	C	1.35	0.5m
<b>Slotted Cast Iron</b> 	100SK502	100SK805	100SKP805	C	4.88	0.5m
<b>Slotted Cast Iron PolyHeel *</b> 	100SK508	100SK805	100SKP805	C	5.16	0.5m
<b>Slotted Stainless Steel Reinforced</b> 	100SK429	100SK807	100SKP807	E	7.45	1.0m
	100SK431	100SK807	100SKP807	E	3.67	0.5m
<b>Slotted Ductile Iron</b> 	100SK504	100SK805	100SKP805	E	4.57	0.5m
<b>Z Tread Chequer Plate</b> 	100SK506	100SK810	100SKP810	E	5.60	0.5m

\* **Note:** The PolyHeel grating is designed for pedestrian and shopping area drainage applications, where the use of high heels and small wheeled traffic (e.g. shopping trolleys) need to be accommodated. The size and configuration of the PolyHeel grating prevents narrow heels or small wheels being caught within the slots.

**PolyChannel SK NW100 – Technical data**

**Note:** All channels in the table below are also available with stainless edges (SKCR and SKPCR), except **100SKP071** and **100SKP101**.

**Channels with built-in fall of 0.6%, 1000mm long**

Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
100SK010	1000	130/136	111/117		12.50			
100SK020	1000	136/142	117/123		12.75			
100SK030	1000	142/148	123/129		13.25			
100SK040	1000	148/154	129/135		13.50			
100SK050	1000	154/160	135/141		13.75	✓	✓	✓
100SK060	1000	160/166	141/147		14.50			
100SK070	1000	166/172	147/153		15.00			
100SK080	1000	172/178	153/159		15.25			
100SK090	1000	178/184	159/165		15.50			
100SK100	1000	184/190	165/171		15.75	✓	✓	✓
100SK110	1000	190/196	171/177		16.25			
100SK120	1000	196/202	177/183		16.50			
100SK130	1000	202/208	183/189		16.75			
100SK140	1000	208/214	189/195		17.25			
100SK150	1000	214/220	195/201		17.50	✓	✓	✓
100SK160	1000	220/226	201/207		18.10			
100SK170	1000	226/232	207/213		18.50			
100SK180	1000	232/238	213/219		19.00			
100SK190	1000	238/244	219/225		19.25			
100SK200	1000	244/250	225/231		19.50	✓	✓	✓

**Flat Channels 1000mm long**

Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
100SK021	1000	142/142	123/123		12.75	✓		✓
100SK101	1000	190/190	171/171		15.75	✓	✓	✓
100SK201	1000	250/250	231/231		19.50	✓	✓	✓

**Flat Channels 500mm long**

Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
100SK022	500	142/142	123/123	✓	6.38	✓		✓
100SK102	500	190/190	171/171	✓	7.90	✓	✓	✓
100SK202	500	250/250	231/231	✓	10.30	✓	✓	✓

**Flat Channels 1000mm long type Piccolo**

Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
100SKP070	1000	70/70	51/51		7.50	✓		✓
100SKP071 c/w PVC outlet, Ø110mm	1000	70/70	51/51		8.00	✓		✓
100SKP100	1000	100/100	81/81		9.00	✓		✓
100SKP101 c/w PVC outlet, Ø110mm	1000	100/100	81/81		9.50	✓		✓

H = Overall Height

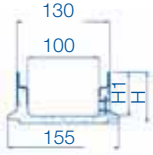
H1 = Invert Depth

# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

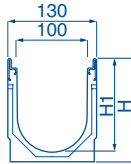
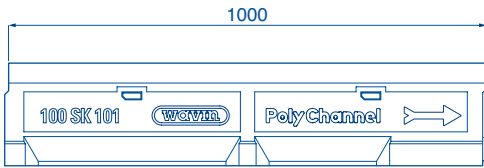
Product Range – PolyChannel SK NW100

## PolyChannel SK NW100 – Product dimensions

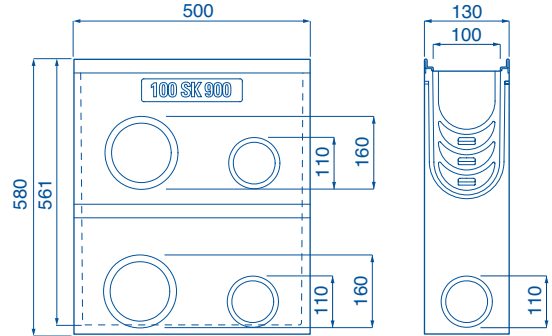
### 100SKP Channels (Piccolo)



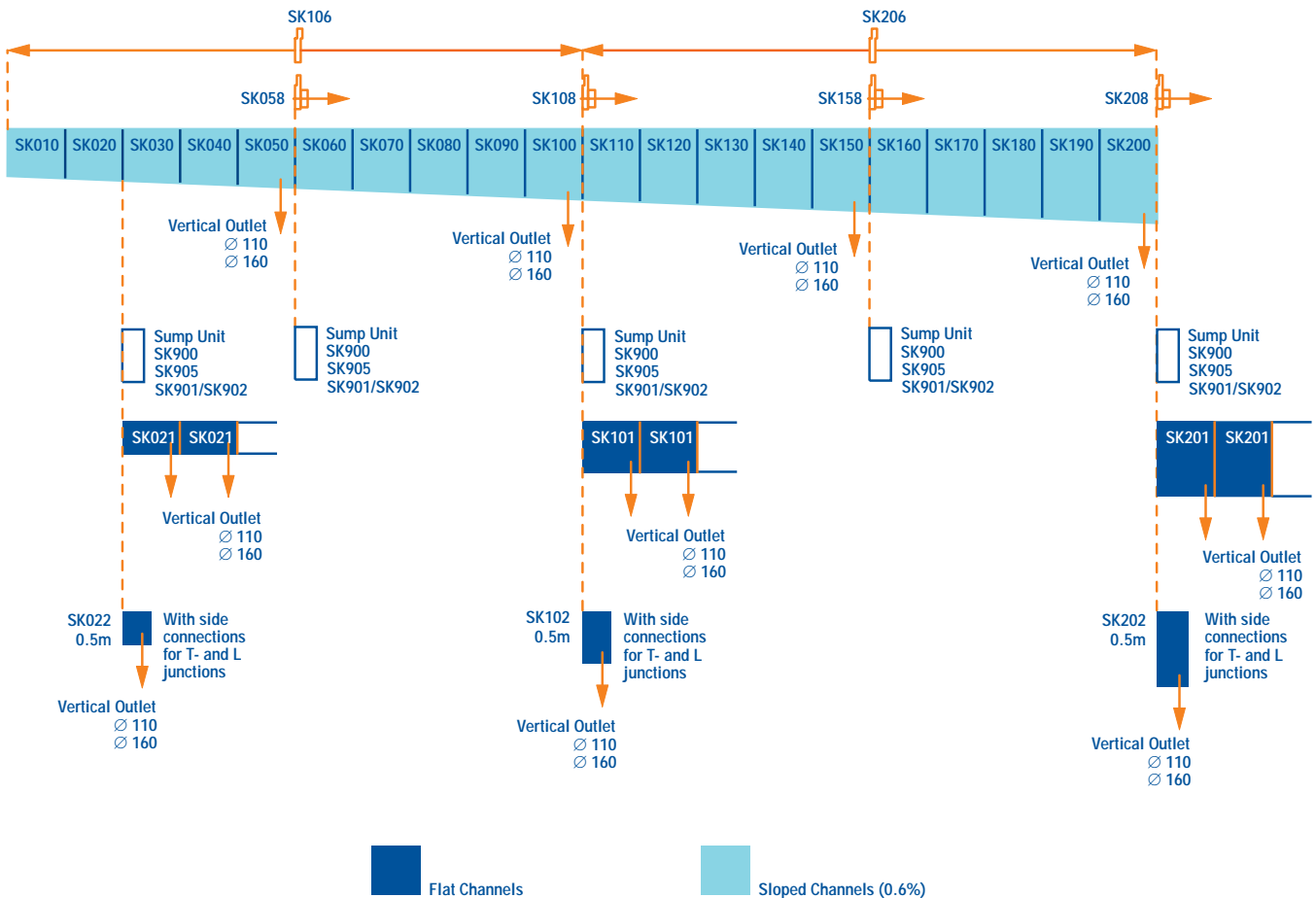
### 100SK Channels



### 100SK900 Sump



## PolyChannel SK NW100 – Design principle



**PolyChannel SK channels**

■ NW150 ■ Loading Class A-E ■ Flat  & Stepped 

- 150SK195 1.0m, flat, 215mm overall height
- 150SK255 1.0m, flat, 275mm overall height
- 150SK315 1.0m, flat, 335mm overall height



**PolyChannel SK accessories**

**PolyChannel SK end plates**

- 150SB106 End plate for channel 150SK195
- 150SB206 End plate for channel 150SK255
- 150SB306 End plate for channel 150SK315
- 150SB108 End plate + PVC outlet, Ø160mm, for channel 150SK195
- 150SB208 End plate + PVC outlet, Ø160mm, for channel 150SK255
- 150SB308 End plate + PVC outlet, Ø160mm, for channel 150SK315



**PolyChannel SK PVC outlets**

- 100SK821 PVC outlet, Ø160mm, round
- 100SK825 PVC outlet, Ø160mm, odour trap
- 100SK822 PVC outlet, Ø160mm, oval



**PolyChannel SK sump**

- 150SK900 Sump with galvanised bucket, 0.5m (nominal length)


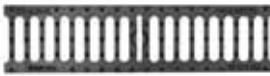


**PolyChannel SK step connector**

- 150SB099 60mm step



**PolyChannel SK gratings**

Type	Part No.	Locks Standard	Loading Class	Weight Kg	Nominal Length
<b>Slotted Cast Iron PolyHeel *</b> 	150SK508	150SB805	C	8.20	0.5m
<b>Slotted Ductile Iron</b> 	150SB804	150SB805	E	8.60	0.5m

\* **Note:** The PolyHeel grating is designed for pedestrian and shopping area drainage applications, where the use of high heels and small wheeled traffic (e.g. shopping trolleys) need to be accommodated. The size and configuration of the PolyHeel grating prevents narrow heels or small wheels being caught within the slots.

# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

Product Range – PolyChannel SK NW150

## PolyChannel SK NW150 – Technical data

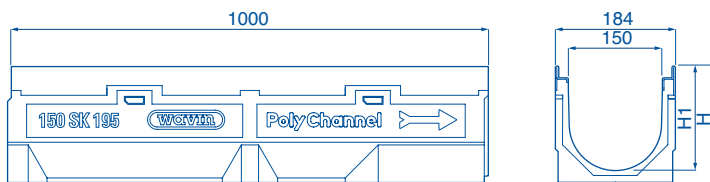
Flat Channels 1000mm long

Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
150SK195	1000	215	195		21.62	✓	✓	✓
150SK255	1000	275	255		25.02	✓	✓	✓
150SK315	1000	335	315		29.12	✓	✓	✓

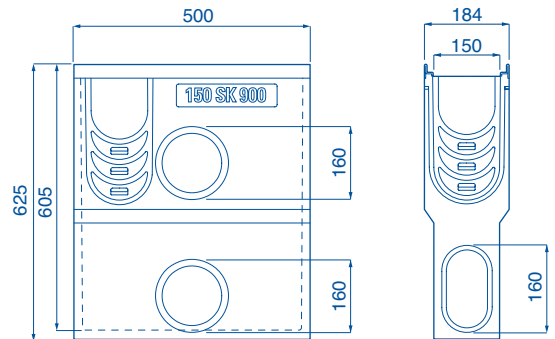
H = Overall Height      H1 = Invert Depth

## PolyChannel SK NW150 – Product dimensions

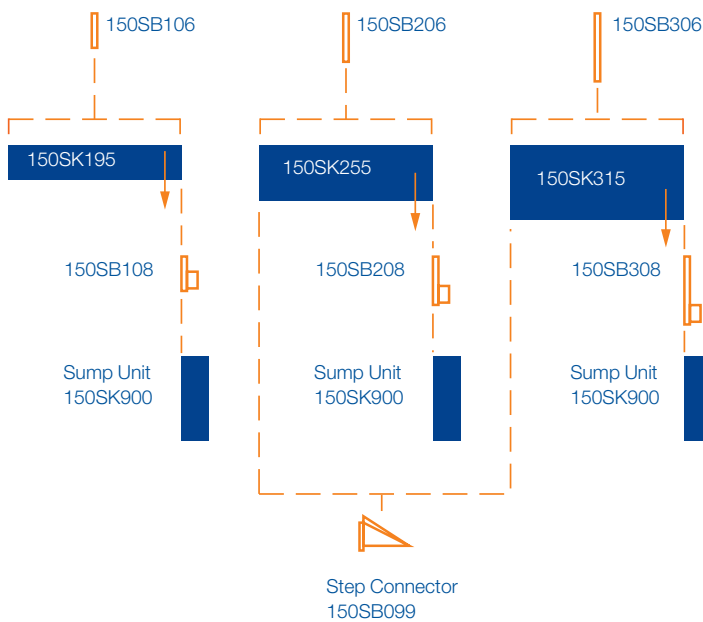
150SK Channels



150SK900 Sump



## PolyChannel SK NW150 – Design principle



## PolyChannel SK channels

■ NW200 ■ Loading Class A-E ■ Flat & Stepped

- 200SK231 1.0m, flat, 243mm overall height
- 200SK291 1.0m, flat, 303mm overall height
- 200SK351 1.0m, flat, 363mm overall height



## PolyChannel SK accessories

### PolyChannel SK end plates

- 200SB106 End plate for channel 200SK231
- 200SB206 End plate for channel 200SK291
- 200SB306 End plate for channel 200SK351
- 200SB108 End plate + PVC outlet, Ø160mm, for channel 200SK231
- 200SB208 End plate + PVC outlet, Ø160mm, for channel 200SK291
- 200SB308 End plate + PVC outlet, Ø160mm, for channel 200SK351



### PolyChannel SK PVC outlets

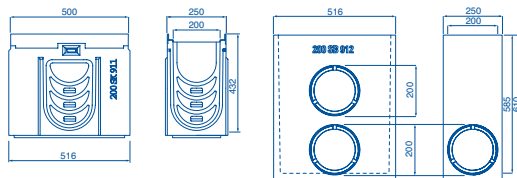
- 200SB823 PVC outlet, Ø200mm, round \*



\* **Note:** Contact Wavin's Sales Office for details of adaptors suitable for connection to 225mm TwinWall or UltraRib

### PolyChannel SK sump

- 200SK900 Sump with galvanised bucket, 0.5m (nominal length) (2 piece)



### PolyChannel SK step connector

- 200SB099 60mm step



## PolyChannel SK gratings

Type	Part No.	Locks Standard	Loading Class	Weight Kg	Nominal Length
<p><b>Slotted Cast Iron</b></p>	200SK502	200SB805	C	10.20	0.5m
<p><b>Slotted Ductile Iron</b></p>	200SK504	200SB805	E	12.54	0.5m

# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

Product Range – PolyChannel SK NW200

## PolyChannel SK NW200 – Technical data

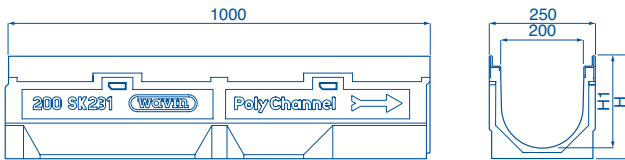
### Flat Channels 1000mm long

Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
200SK231	1000	243	218		24.20	✓	✓	✓
200SK291	1000	303	278		27.90	✓	✓	✓
200SK351	1000	363	338		31.90	✓	✓	✓

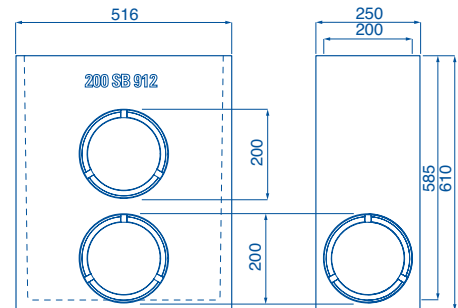
H = Overall Height      H1 = Invert Depth

## PolyChannel SK NW200 – Product dimensions

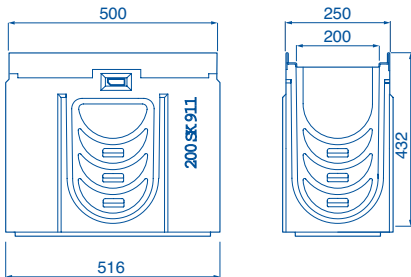
### 200SK Channels



### Sump Base for 200SK900 \*

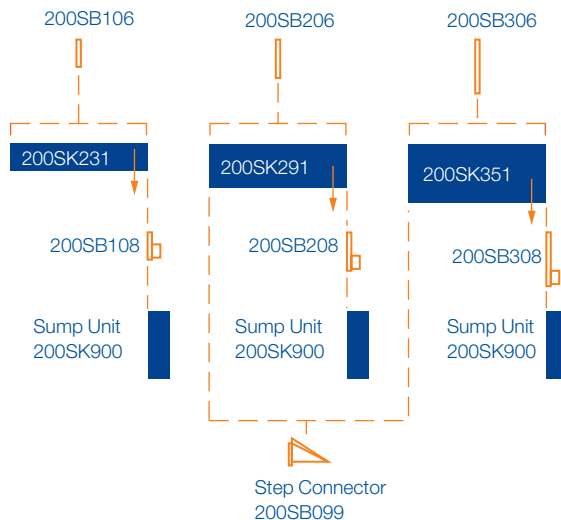


### Sump Top for 200SK900



\* **Note:** Use Ø200mm round PVC outlet (200SB823) and suitable adaptor to connect to 225mm TwinWall or UltraRib.

## PolyChannel SK NW200 – Design principle



## PolyChannel SK channels

■ NW300 ■ Loading Class A-E ■ Flat

■ 300SK390 1.0m, flat, 395mm overall height



## PolyChannel SK accessories

### PolyChannel SK end plates

- 300SB106 End plate for channel 300SK390
- 300SB108 End plate + PVC outlet, Ø200mm, for channel 300SK390



### PolyChannel SK PVC outlets

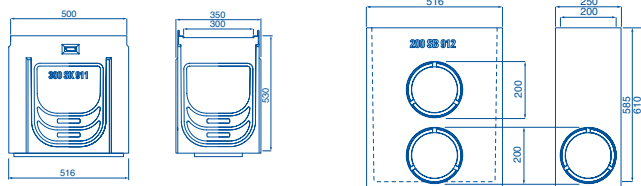
- 200SB823 PVC outlet, Ø200mm, round \*

\* **Note:** Contact Wavin's Sales Office for details of adaptors suitable for connection to 225mm TwinWall or UltraRib



### PolyChannel SK sump

- 300SK900 Sump with galvanised bucket, 0.5m (nominal length) (2 piece)



## PolyChannel SK gratings

Type	Part No.	Locks Standard	Loading Class	Weight Kg	Nominal Length
<b>Slotted Ductile Iron</b> 	300SK504	300SB805	E	20.80	0.5m

# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

Product Range – PolyChannel SK NW300

## PolyChannel SK NW300 Technical data

### Flat Channels 1000mm long

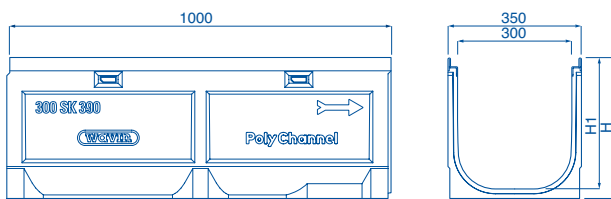
Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
300SK390	1000	395	370		47.20	✓	✓	✓

H = Overall Height

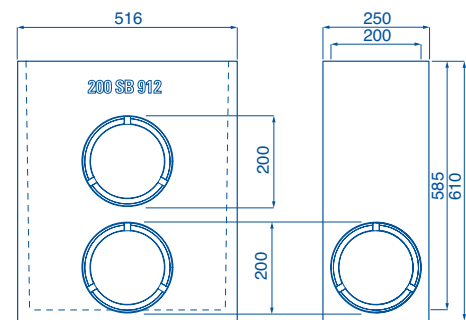
H1 = Invert Depth

## PolyChannel SK NW300 Product dimensions

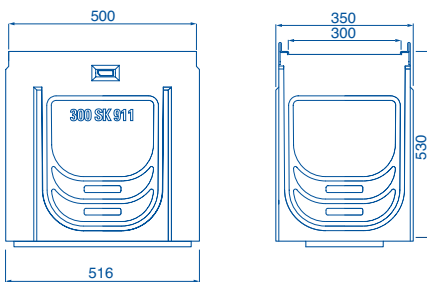
### 300SK390 Channel



### Sump Base for 300SK900 \*

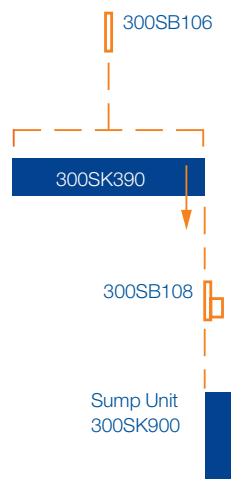


### Sump Top for 300SK900



\* **Note:** Use Ø200mm round PVC outlet (200SB823) and suitable adaptor to connect to 225mm TwinWall or UltraRib.

## PolyChannel SK NW300 Design principle



**Introduction to SKS** PolyChannel SKS NW 100 150 200 300

**PolyChannel SKS**

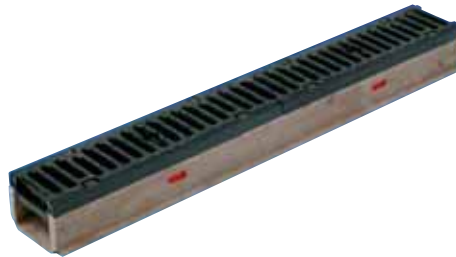
PolyChannel SKS includes a range of heavy duty channels. The SKS range is available in widths of 100mm in flat and sloped channels, 150mm, 200mm and 300mm in flat channels only. Suitable for all drainage situations up to F900 loading.

SKS channels are supplied as one piece monolithic units, with enormous bond strength between frame and channel.



**PolyChannel SKS Piccolo**

Shallow, heavy duty channel system available in 100mm widths specifically developed for multi-storey parking facilities, flat roofs and other restricted depth construction areas.



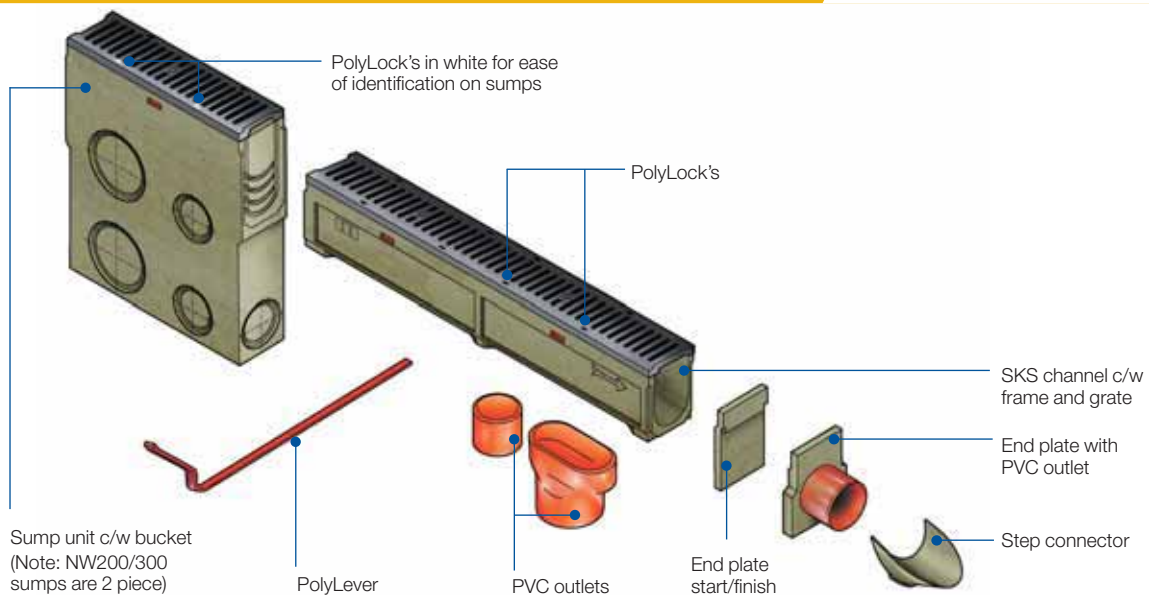
**Accessories**

A wide range of accessories are available to complement the SKS range. Including purpose designed sump units which enable simple connection to main sewers which are fitted with buckets to collect debris.

Alternatively, channels can be drained via vertical outlets or through end plate outlets.



**Basic Components**



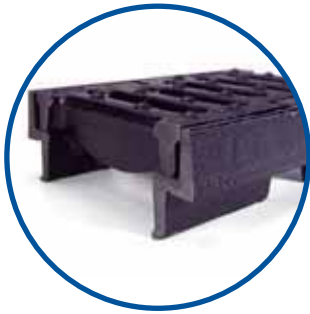
# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

PolyChannel SKS NW100 150 200 300

## Specialist Features

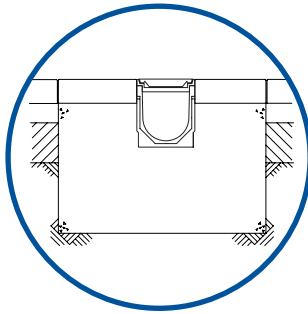
### Armour Coating

All PolyChannel SKS systems are supplied with a special armour coating on the frame and grate to prevent the formation of rust.



### Profile

Modular style channels with smooth, straight sides ensuring quick and easy installation into areas finished in either concrete, asphalt or block paving.



### Monolithic Unit

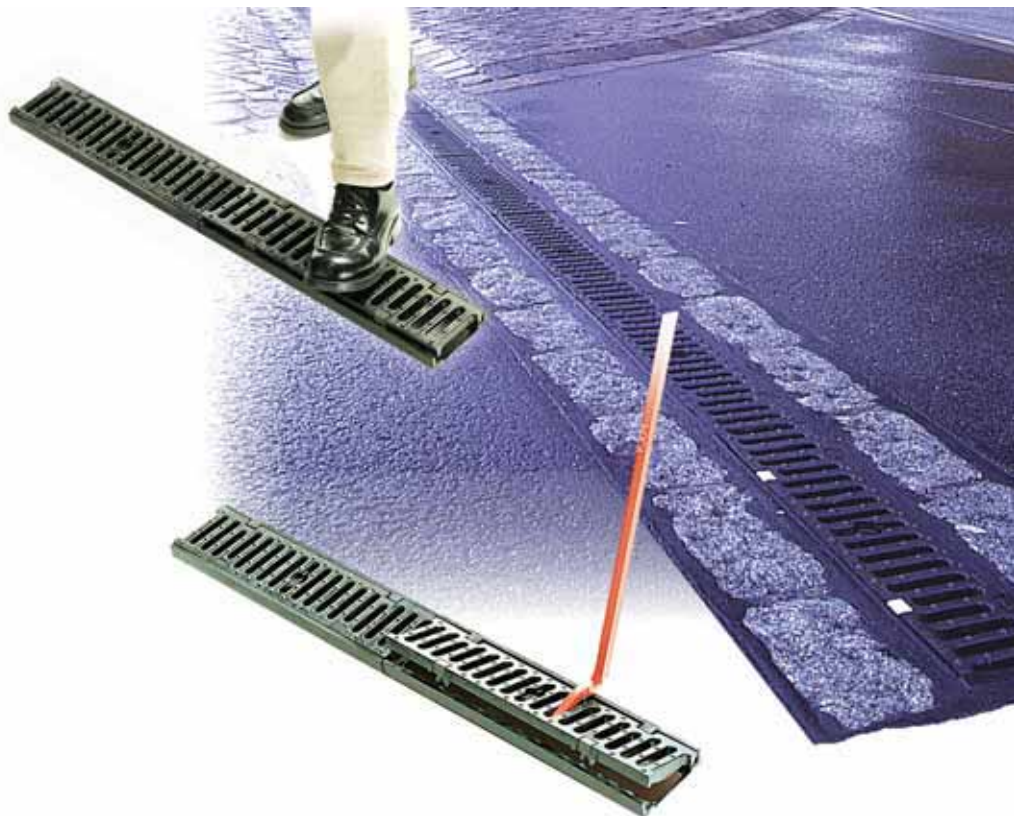
An integral part of the SKS system is the enormous strength of the bond between the frame and channel, creating a one piece monolithic unit.



### PolyLock® Boltless Locking Device

The unique PolyLock® device has no bolts or sliding devices and cannot corrode because there are no metallic parts or springs. Other benefits of the PolyLock® are:

- ✓ **Maintenance friendly – gratings can be easily removed using the PolyLever lifting tool and locked back into position in seconds**
- ✓ **Once in position, the grating cannot be left unlocked**
- ✓ **For every 0.5m of grating there are two PolyLocks**
- ✓ **Sumps can be easily identified as they are supplied with white coloured PolyLock's (instead of standard black (previously red in colour), as used on channels).**



**Loading Classes**

The PolyChannel SKS range can be used for applications up to class F900.



**A15**



**B125**



**C250**



**D400**



**E600**



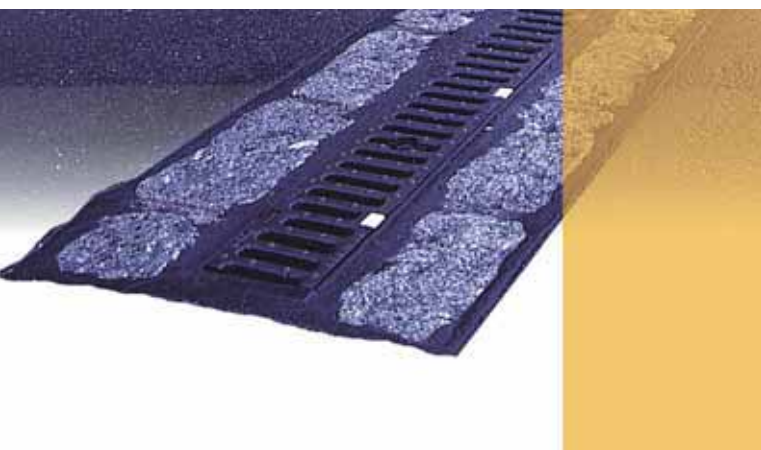
**F900**

**Gratings**

PolyChannel SKS channels are supplied complete with armour coated ductile iron frame and grates for heavy duty loadings up to F900 kN, available in:

- ✓ **slotted** Ductile iron
- Ductile iron PolyHeel (NW100 only)

The gratings are secured by the unique PolyLock® boltless locking device. The PolyLever lifting tool is available to open the PolyLock® when required.



**Applications**

PolyChannel SKS can be used for heavy duty applications with a loading class of up to F900, including:

- ✓ **Service stations**
- ✓ **Lorry parks**
- ✓ **Industrial areas**
- ✓ **Airport runways**
- ✓ **Docks**

**Specification Clause**

Surface drainage shall be Wavin PolyChannel SKS NW 100/150/200/300 system as manufactured by Wavin Plastics Limited, in accordance with the requirements of BS EN ISO 9002 (Quality Assurance). The drainage system shall be manufactured from polyester concrete. The heavy duty linked frame shall be monolithically bonded onto the channel to create a tension free vibration absorbing bond. Manufacturers armour coated grating shall be secured into the frame by the PolyLock® system ensuring two fixing points per half metre and not by mechanical bolts. It is recommended that PolyLever removal tools are used when cleaning the systems.

# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

Product Range – PolyChannel SKS NW100

## PolyChannel SKS channels

■ NW100 ■ Loading Class A-E ■ Flat  & 0.6% Sloped  & Stepped 

- 100SKS010 1.0m, sloped, 137 - 143mm overall height
- 100SKS020 1.0m, sloped, 143 - 149mm overall height
- 100SKS021 1.0m, flat, 149mm overall height
- 100SKS022 0.5m, junction, 149mm overall height
- 100SKS030 1.0m, sloped, 149 - 155mm overall height
- 100SKS040 1.0m, sloped, 155 - 161mm overall height
- 100SKS050 1.0m, sloped, 161 - 167mm overall height
- 100SKS060 1.0m, sloped, 167 - 173mm overall height
- 100SKS070 1.0m, sloped, 173 - 179mm overall height
- 100SKS080 1.0m, sloped, 179 - 185mm overall height
- 100SKS090 1.0m, sloped, 185 - 191mm overall height
- 100SKS100 1.0m, sloped, 191 - 197mm overall height
- 100SKS101 1.0m, flat, 197mm overall height
- 100SKS102 0.5m, junction, 197mm overall height
- 100SKS110 1.0m, sloped, 197 - 203mm overall height
- 100SKS120 1.0m, sloped, 203 - 209mm overall height
- 100SKS130 1.0m, sloped, 209 - 215mm overall height
- 100SKS140 1.0m, sloped, 215 - 221mm overall height
- 100SKS150 1.0m, sloped, 221 - 227mm overall height

- 100SKS160 1.0m, sloped, 227 - 233mm overall height
- 100SKS170 1.0m, sloped, 233 - 239mm overall height
- 100SKS180 1.0m, sloped, 239 - 245mm overall height
- 100SKS190 1.0m, sloped, 245 - 251mm overall height
- 100SKS200 1.0m, sloped, 251 - 257mm overall height
- 100SKS201 1.0m, flat, 257mm overall height
- 100SKS202 0.5m, junction, 257mm overall height



## PolyChannel SKS PolyHeel channels

■ NW100 ■ Loading Class A-E ■ Flat  & 0.6% Sloped  & Stepped 

- 100SKSH010 1.0m, sloped, 137 - 143mm overall height
- 100SKSH020 1.0m, sloped, 143 - 149mm overall height
- 100SKSH021 1.0m, flat, 149mm overall height
- 100SKSH022 0.5m, junction, 149mm overall height
- 100SKSH030 1.0m, sloped, 149 - 155mm overall height
- 100SKSH040 1.0m, sloped, 155 - 161mm overall height
- 100SKSH050 1.0m, sloped, 161 - 167mm overall height
- 100SKSH060 1.0m, sloped, 167 - 173mm overall height
- 100SKSH070 1.0m, sloped, 173 - 179mm overall height
- 100SKSH080 1.0m, sloped, 179 - 185mm overall height
- 100SKSH090 1.0m, sloped, 185 - 191mm overall height
- 100SKSH100 1.0m, sloped, 191 - 197mm overall height
- 100SKSH101 1.0m, flat, 197mm overall height
- 100SKSH102 0.5m, junction, 197mm overall height
- 100SKSH110 1.0m, sloped, 197 - 203mm overall height
- 100SKSH120 1.0m, sloped, 203 - 209mm overall height
- 100SKSH130 1.0m, sloped, 209 - 215mm overall height
- 100SKSH140 1.0m, sloped, 215 - 221mm overall height
- 100SKSH150 1.0m, sloped, 221 - 227mm overall height

- 100SKSH160 1.0m, sloped, 227 - 233mm overall height
- 100SKSH170 1.0m, sloped, 233 - 239mm overall height
- 100SKSH180 1.0m, sloped, 239 - 245mm overall height
- 100SKSH190 1.0m, sloped, 245 - 251mm overall height
- 100SKSH200 1.0m, sloped, 251 - 257mm overall height
- 100SKSH201 1.0m, flat, 257mm overall height
- 100SKSH202 0.5m, junction, 257mm overall height



**PolyChannel SKS Piccolo channels**

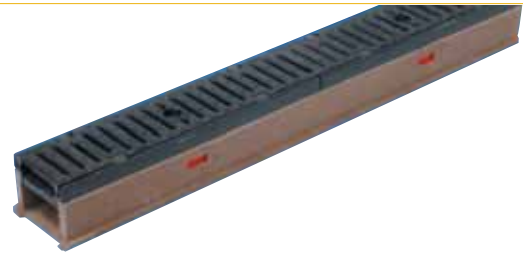
■ NW100 ■ Loading Class A-E ■ Flat ■■■■■■

- 100SKSP070 1.0m, flat, 76mm overall height
- 100SKSP100 1.0m, flat, 106mm overall height

**PolyChannel SKS PolyHeel Piccolo channels**

■ NW100 ■ Loading Class A-E ■ Flat ■■■■■■

- 100SKSPH0701.0m, flat, 76mm overall height
- 100SKSPH1001.0m, flat, 106mm overall height



### PolyChannel SKS accessories

#### PolyChannel SKS end plates

- 100SKS106 End plate for channels 100SKS010 - 100SKS102
- 100SKS206 End plate for channels 100SKS110 - 100SKS202
- 100SKS058 End plate + PVC outlet, Ø110mm, for channel 100SKS050
- 100SKS108 End plate + PVC outlet, Ø110mm, for channels 100SKS100 - 100SKS102
- 100SKS158 End plate + PVC outlet, Ø110mm, for channel 100SKS150
- 100SKS208 End plate + PVC outlet, Ø110mm, for channels 100SKS200 - 100SKS202
- 100SKSP072 End plate for Piccolo channels 100SKSP070/100SKSPH070
- 100SKSP102 End plate for Piccolo channels 100SKSP100/100SKSPH100



#### PolyChannel SKS PVC outlets

- 100SK820 PVC outlet, Ø110mm, round
- 100SK821 PVC outlet, Ø160mm, round
- 100SK822 PVC outlet, Ø160mm, oval
- 100SK824 PVC outlet, Ø110mm, odour trap
- 100SK825 PVC outlet, Ø160mm, odour trap



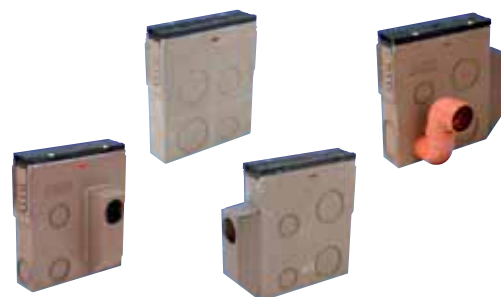
#### PolyChannel SKS step connectors

- 100SB098 48mm step
- 100SB099 60mm step



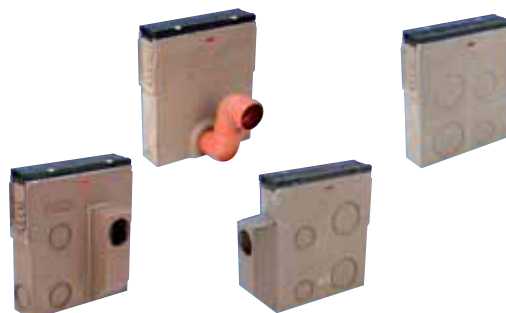
#### PolyChannel SKS sumps

- 100SKS900 Sump with grating and galvanised bucket, 0.5m (nominal length)
- 100SKS901 Sump with grating and galvanised bucket, end trap and rodding eye, 0.5m (nominal length)
- 100SKS902 Sump with grating and galvanised bucket, side trap and rodding eye, 0.5m (nominal length)
- 100SKS905 Sump with grating and galvanised bucket, with Ø160mm PVC odour trap, 0.5m (nominal length)



#### PolyChannel SKSH PolyHeel sumps

- 100SKSH900 Sump with grating and galvanised bucket, 0.5m (nominal length)
- 100SKSH901 Sump with grating and galvanised bucket, end trap and rodding eye, 0.5m (nominal length)
- 100SKSH902 Sump with grating and galvanised bucket, side trap and rodding eye, 0.5m (nominal length)
- 100SKSH905 Sump with grating and galvanised bucket, with Ø160mm PVC odour trap, 0.5m (nominal length)



#### PolyChannel SKS PolyLever lifting tools

- 100SKS906 PolyLever grating removal tool for SKS NW100 & 150 channels with standard gratings
- 100SKS907 PolyLever grating removal tool for SKS NW100 channels with PolyHeel gratings



## PolyChannel SKS NW100 Technical data

**Note:** All channels in the table above are also available with PolyHeel gratings (SKSH & SKSPH).

### Channels with built-in fall of 0.6%, 1000mm long

Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
100SKS010	1000	137/143	118/124		25.28			
100SKS020	1000	143/149	124/130		25.53			
100SKS030	1000	149/155	130/136		26.03			
100SKS040	1000	155/161	136/142		26.28			
100SKS050	1000	161/167	142/148		26.53	✓	✓	✓
100SKS060	1000	167/173	148/154		27.28			
100SKS070	1000	173/179	154/160		27.78			
100SKS080	1000	179/185	160/166		28.03			
100SKS090	1000	185/191	166/172		28.28			
100SKS100	1000	191/197	172/178		28.53	✓	✓	✓
100SKS110	1000	197/203	178/184		29.03			
100SKS120	1000	203/209	184/190		29.28			
100SKS130	1000	209/215	190/196		34.53			
100SKS140	1000	215/221	196/202		30.03			
100SKS150	1000	221/227	202/208		30.28	✓	✓	✓
100SKS160	1000	227/233	208/214		30.78			
100SKS170	1000	233/239	214/220		31.28			
100SKS180	1000	239/245	220/226		31.78			
100SKS190	1000	245/251	226/232		32.03			
100SKS200	1000	251/257	232/238		32.28	✓	✓	✓

### Flat Channels 1000mm long

Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
100SKS021	1000	149/149	130/130		25.53	✓		✓
100SKS101	1000	197/197	178/178		28.53	✓	✓	✓
100SKS201	1000	257/257	238/238		32.28	✓	✓	✓

### Flat Channels 500mm long

Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
100SKS022	500	149/149	130/130		12.77	✓	✓	✓
100SKS102	500	197/197	178/178	✓	14.27	✓	✓	✓
100SKS202	500	257/257	238/238	✓	16.69	✓	✓	✓

### Flat Channels 1000mm long type Piccolo

Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
100SKSP070	1000	76/76	66/66		21.45	✓		✓
100SKSP071	1000	106/106	96/96		22.90	✓		✓

H = Overall Height

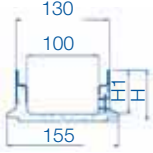
H1 = Invert Depth

# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

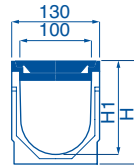
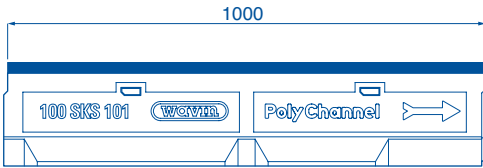
Product Range – PolyChannel SKS NW100

## PolyChannel SKS NW100 Product dimensions

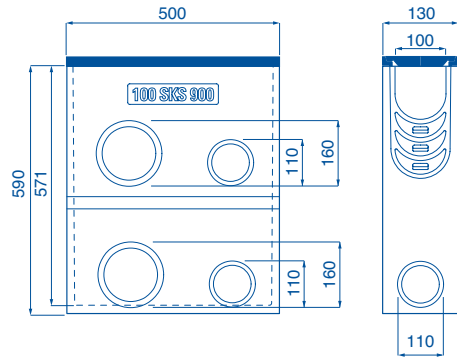
### 100SKSP Channels (Piccolo)



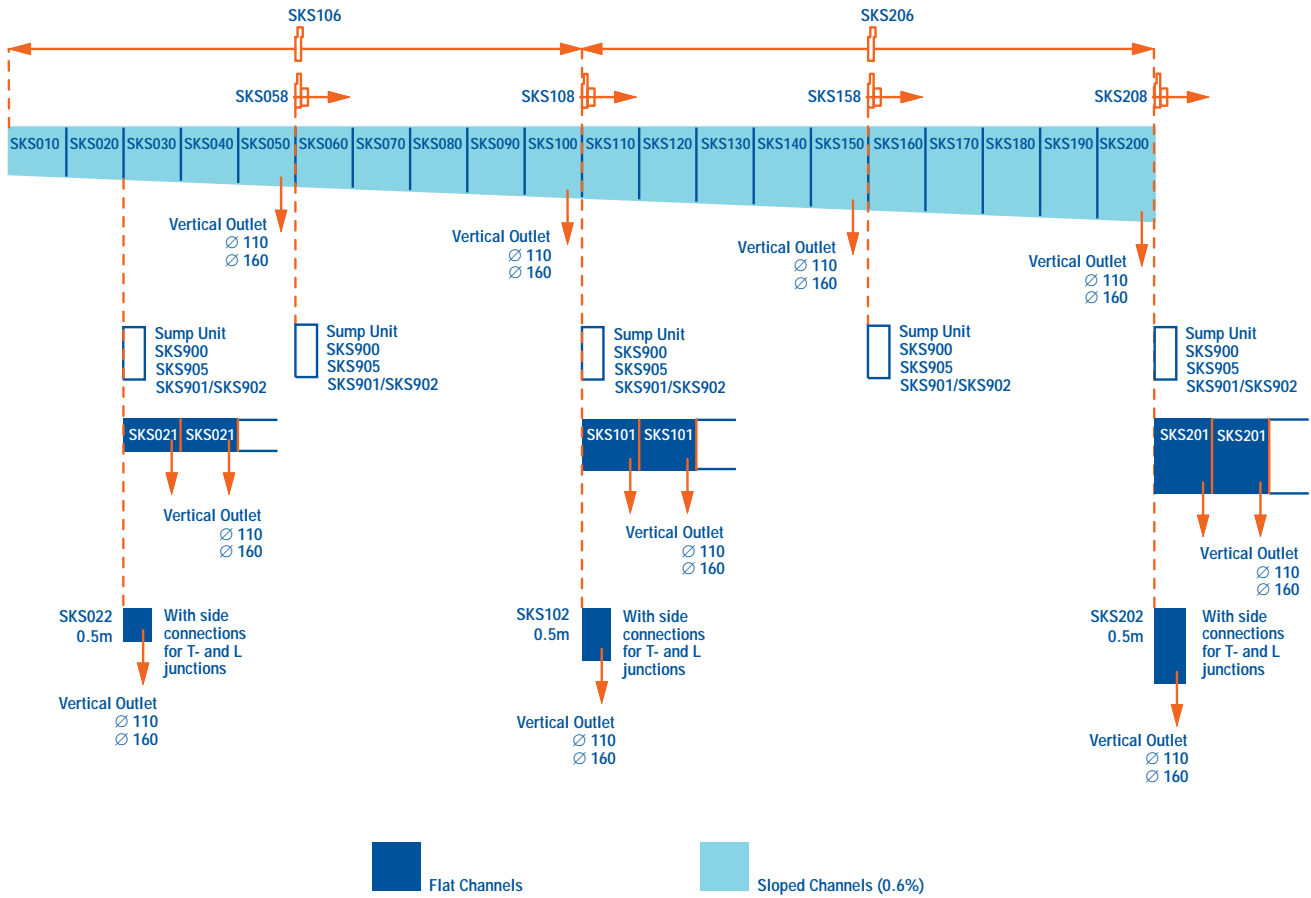
### 100SKS Channels



### 100SKS900 Sump



## PolyChannel SKS NW100 Design principle



## PolyChannel SKS channels

■ NW150 ■ Loading Class A-E ■ Flat  & Stepped 

- 150SKS195 1.0m, flat, 241mm overall height
- 150SKS255 1.0m, flat, 301mm overall height
- 150SKS315 1.0m, flat, 361mm overall height



## PolyChannel SKS accessories

### PolyChannel SKS end plates

- 150SKS106 End plate for channel 150SKS195
- 150SKS206 End plate for channel 150SKS255
- 150SKS306 End plate for channel 150SKS315
- 150SKS108 End plate + PVC outlet, Ø160mm, for channel 150SKS195
- 150SKS208 End plate + PVC outlet, Ø160mm, for channel 150SKS255
- 150SKS308 End plate + PVC outlet, Ø160mm, for channel 150SKS315



### PolyChannel SKS PVC outlets

- 100SK821 PVC outlet, Δ160mm, round
- 100SK825 PVC outlet, Δ160mm, odour trap



### PolyChannel SKS sumps

- 150SKS900 Sump with grating and galvanised bucket, 0.5m (nominal length)
- 150SKS905 Sump with grating and galvanised bucket, with Δ160mm PVC odour trap, 0.5m (nominal length)



### PolyChannel SKS step connectors

- 150SKS150 60mm step



### PolyChannel SKS PolyLever lifting tool

- 100SKS906 PolyLever grating removal tool for SKS NW100 & 150 channels with standard gratings



# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

Product Range – PolyChannel SKS NW150

## PolyChannel SKS NW150 Technical data

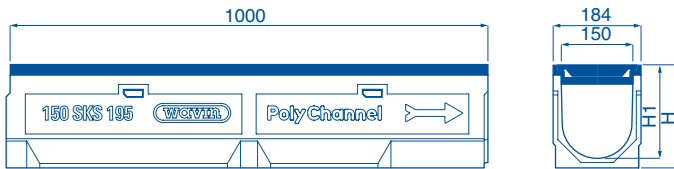
### Flat Channels 1000mm long

Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
150SKS195	1000	241	223		44.82	✓	✓	✓
150SKS255	1000	301	283		48.90	✓	✓	✓
150SKS315	1000	361	343		53.70	✓	✓	✓

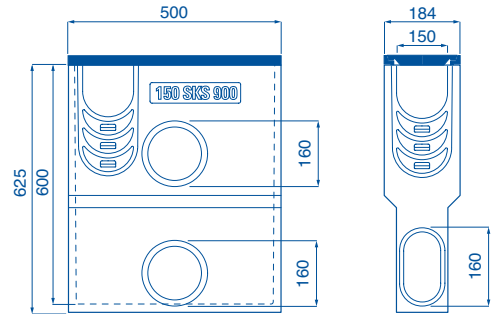
H = Overall Height      H1 = Invert Depth

## PolyChannel SKS NW150 Product dimensions

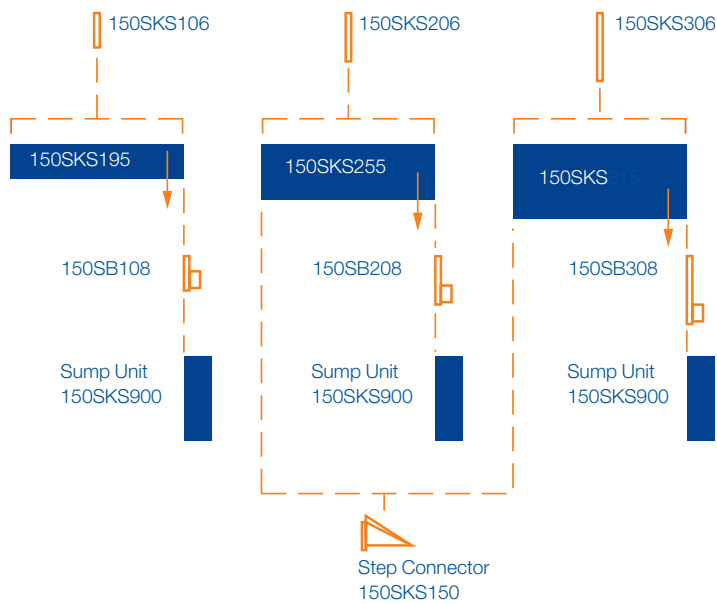
### 150SKS Channels



### 150SKS900 Sump



## PolyChannel SKS NW150 Design principle



**PolyChannel SKS channels**

■ NW200 ■ Loading Class A-E ■ Flat  & Stepped 

- 200SKS231 1.0m, flat, 259mm overall height
- 200SKS291 1.0m, flat, 319mm overall height
- 200SKS351 1.0m, flat, 379mm overall height



**PolyChannel SKS accessories**

**PolyChannel SKS end plates**

- 200ST560 End plate for channel 200SKS231
- 200ST306 End plate for channel 200SKS291
- 200ST356 End plate for channel 200SKS351
- 200ST258 End plate + PVC outlet, Ø160mm, for channel 200SKS231
- 200ST308 End plate + PVC outlet, Ø160mm, for channel 200SKS291
- 200ST358 End plate + PVC outlet, Ø160mm, for channel 200SKS351



**PolyChannel SKS PVC outlets**

- 200SB823 PVC outlet, Ø200mm, round \*

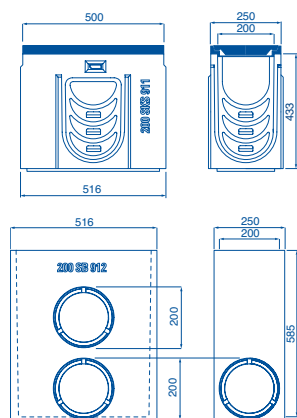


\* **Note:** Contact Wavin's Sales Office for details of adaptors suitable for connection to 225mm TwinWall or UltraRib

**PolyChannel SKS sumps\***

- 200SKS900 Sump with grating and galvanised bucket, 0.5m (nominal length) (2 piece)

\* **Note:** New SKS sump available soon, 2 part gully (100GU610) alternative available on request



**PolyChannel SKS step connectors**

- 200SKS200 60mm step



**PolyChannel SKS PolyLever lifting tool**

- 200SKS906 PolyLever grating removal tool for SKS NW200 & 300 channels with standard gratings



# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

Product Range – PolyChannel SKS NW200

## PolyChannel SKS NW200 Technical data

### Flat Channels 1000mm long

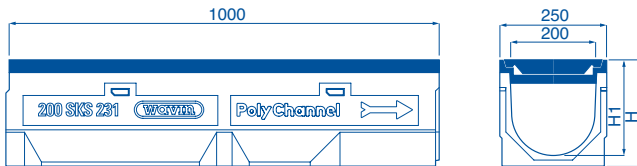
Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
200SKS231	1000	259	241		57.91	✓	✓	✓
200SKS291	1000	319	301		66.38	✓	✓	✓
200SKS351	1000	379	361		66.70	✓	✓	✓

H = Overall Height

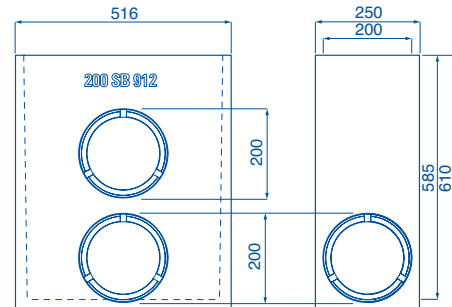
H1 = Invert Depth

## PolyChannel SKS NW200 Product dimensions

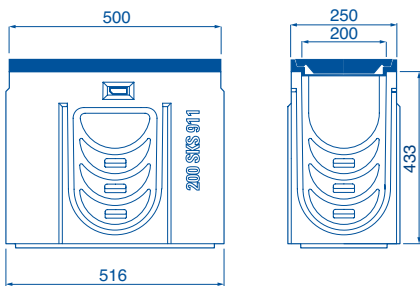
### 200SKS Channels



### Sump Base for 200SKS900\*

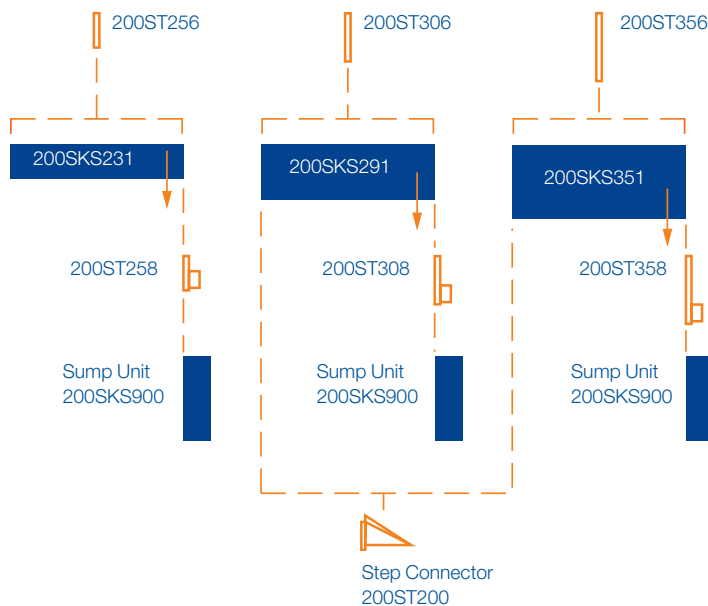


### Sump Top for 200SKS900



\* **Note:** Use Ø200mm round PVC outlet (200SB823) and suitable adaptor to connect to 225mm TwinWall or UltraRib.

## PolyChannel SKS NW200 Design principle



## PolyChannel SKS channels

■ NW300 ■ Loading Class A-E ■ Flat

■ 300SKS390 1.0m, flat, 395mm overall height



## PolyChannel SKS accessories

### PolyChannel SKS end plates

- 300SB106 End plate for channel 300SKS390
- 300SB108 End plate + PVC outlet, Δ200mm, for channel 300SKS390



### PolyChannel SKS PVC outlets

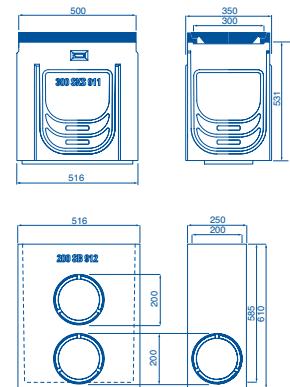
- 200SB823 PVC outlet, Ø200mm round

\* **Note:** Contact Wavin's Sales Office for details of adaptors suitable for connection to 225mm TwinWall or UltraRib



### PolyChannel SKS sumps\*

- 300SKS900 Sump with grating and galvanised bucket, 0.5m (nominal length) (2 piece)



### PolyChannel SKS PolyLever lifting tool

- 200SKS906 PolyLever grating removal tool for SKS NW200 & 300 channels with standard gratings



# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

Product Range – PolyChannel SKS NW300

## PolyChannel SKS NW300 Technical data

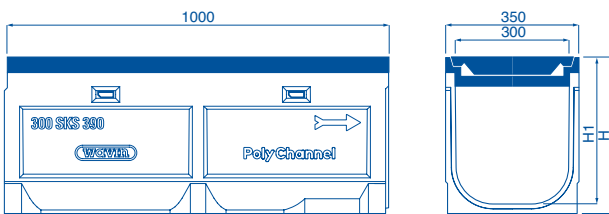
### Flat Channels 1000mm long

Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
300SKS390	1000	395	370		107.03	✓	✓	✓

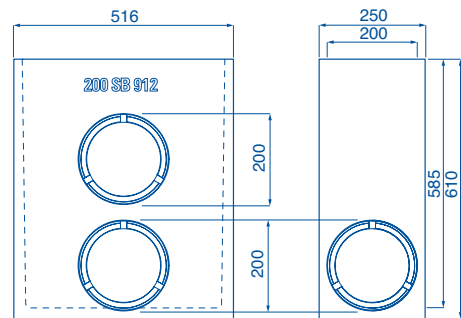
H = Overall Height      H1 = Invert Depth

## PolyChannel SKS NW300 Product dimensions

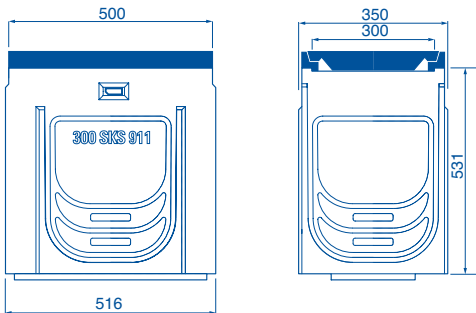
### 300SKS390 Channel



### Sump Base for 300SKS900\*

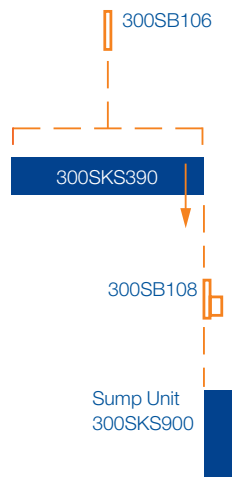


### Sump Top for 300SKS900



\* **Note:** Use Ø200mm round PVC outlet (200SB823) and suitable adaptor to connect to 225mm TwinWall or UltraRib.

## PolyChannel SKS NW300 Design principle



**Introduction to SPQ** PolyChannel SPQ NW 100 200**PolyChannel SPQ**

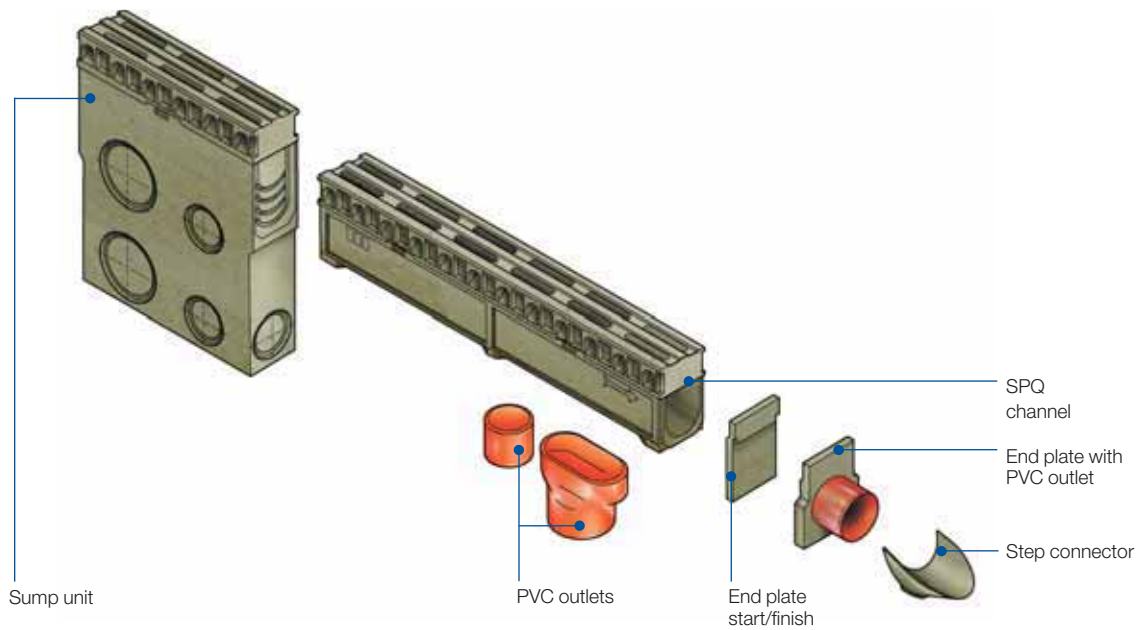
The PolyChannel SPQ (formerly PQ) range has been recently redesigned and improved, resulting in a range that is now even lighter and easier to handle. The SPQ range has been specifically designed for applications where exceptional dynamic traffic loadings of a compressive or vibrative nature occur, up to F900kN. Available in widths of 100mm and 200mm the one piece monolithic polymer concrete construction provides enhanced strength, ideal for applications such as motorway crossovers.

**Accessories**

There are a range of accessories including end plates, step connectors, outlets and purpose designed sumps.



### Basic Components

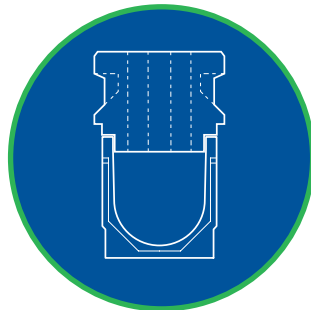


### Specialist Features

#### Profile

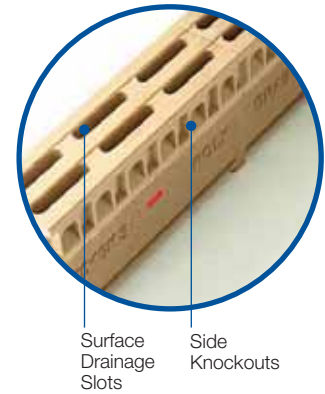
Modular style channels with smooth, straight sides ensuring quick and easy installation into areas finished in either concrete, asphalt or block paving.

Improved design offers increased support when installed.



#### High Intake Capacity

SPQ channels can intake surface water run off via both surface and side entry. The 'knockouts' along the sides of the channel can be removed on-site to allow drainage, when installed with a porous asphalt surface.



#### Monolithic Unit

SPQ offers outstanding operational strength due to its one piece monolithic construction.



**Loading Classes**

The PolyChannel SPQ range can be used for applications up to class F900



**A15**



**B125**



**C250**



**D400**



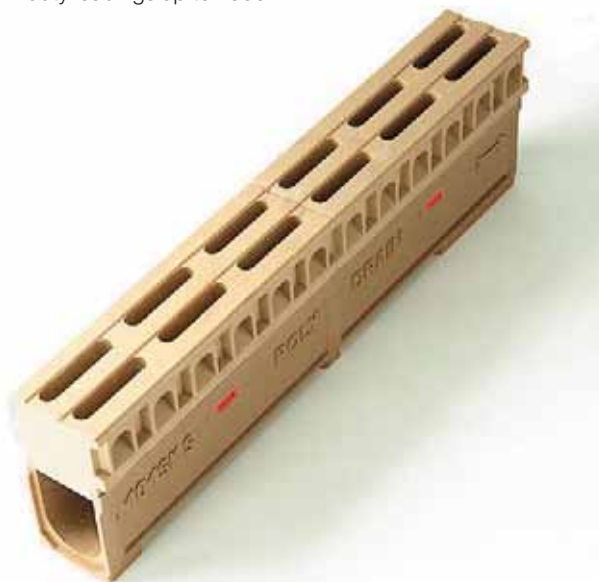
**E600**



**F900**

**Gratings**

PolyChannel SPQ channels are supplied as a one piece monolithic unit complete with a polymer concrete top for heavy duty loadings up to F900kN.



**Applications**

PolyChannel SPQ can be used in heavy loading situations with a loading class of up to F900, including:

- ✓ **Heavily trafficked areas**
- ✓ **Motorway crossovers**
- ✓ **Airports**
- ✓ **Docks**

**Specification Clause**

Surface drainage shall be Wavin PolyChannel SPQ NW100 and 200 as manufactured by Wavin Plastics Limited, in accordance with the requirements of BS EN ISO 9002 (Quality Assurance). The drainage system shall be manufactured from polyester concrete, incorporating full length anchoring ribs. The system shall be supplied as a monolithic unit with a fixed cover. The vertical intake area (through the cover) shall be formed by equally sized longitudinal slots equally distributed along the channel length and shall not be less than 37,900mm<sup>2</sup>/m for NW100 and 59,100mm<sup>2</sup>/m for NW200. The horizontal intake area shall be formed by equally sized knockout apertures equally distributed along the channel length, with a total capacity of not less than 16,100mm<sup>2</sup>/m. The system should be installed in accordance with the manufacturer's recommendations.

# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

Product Range – PolyChannel SPQ NW100

## PolyChannel SPQ channels

■ NW100 ■ Loading Class A-E ■ Flat  & Stepped 

- 100SPQ021 1.0m, flat, 238mm overall height
- 100SPQ101 1.0m, flat, 286mm overall height
- 100SPQ201 1.0m, flat, 346mm overall height

**Note:** 0.5m flat channels are available on request.



## PolyChannel SPQ accessories

### PolyChannel SPQ end plates

- 100SK106 End plate for channels 100SPQ021/100SPQ101
- 100SK206 End plate for channel 100SPQ201
- 100SK108 End plate + PVC outlet, Ø110mm, for channels 100SPQ021/100SPQ101
- 100SK208 End plate + PVC outlet, Ø110mm, for channel 100SPQ201



### PolyChannel SKS PVC outlets

- 100SK820 PVC outlet, Ø110mm, round
- 100SK821 PVC outlet, Ø160mm, round
- 100SK822 PVC outlet, Ø160mm, oval
- 100SK824 PVC outlet, Ø110mm, odour trap
- 100SK825 PVC outlet, Ø160mm, odour trap



### PolyChannel SPQ sump

- 100SPQ900 Sump, 0.5m (*nominal length*)



### PolyChannel SPQ step connectors

- 100SB098 48mm step
- 100SB099 60mm step



## PolyChannel SPQ NW100 Technical data

### Flat Channels 1000mm long

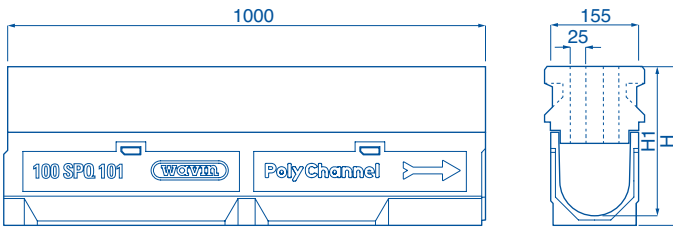
Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
100SPQ021	1000	238	219		35.29	✓	✓	✓
100SPQ101	1000	286	267		38.29	✓	✓	✓
100SPQ201	1000	346	327		42.04	✓	✓	✓

H = Overall Height

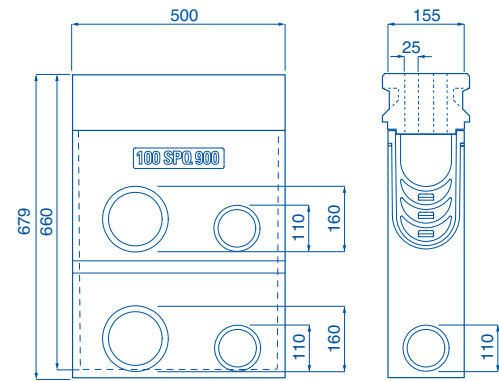
H1 = Invert Depth

## PolyChannel SPQ NW100 Product dimensions

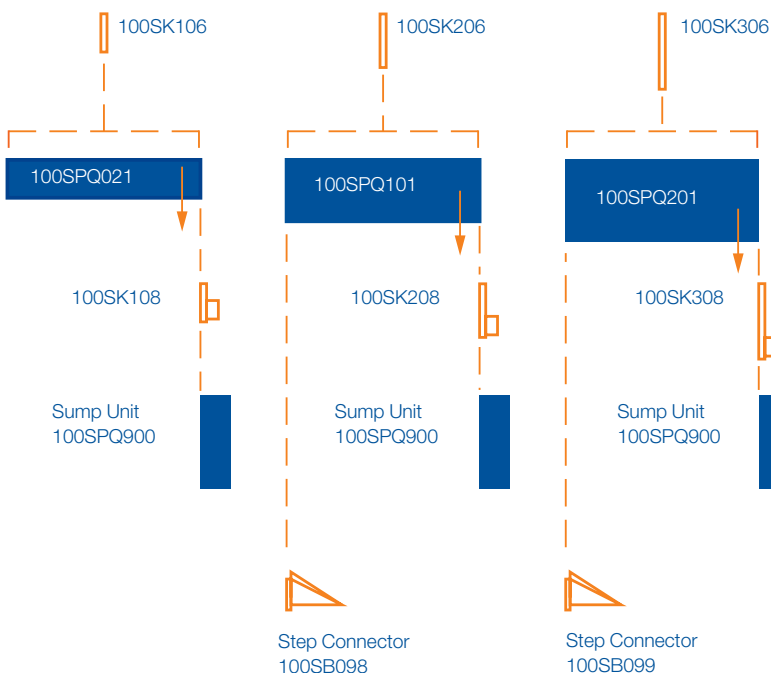
### 100SPQ Channels



### 100SPQ900 Sump



## PolyChannel SPQ NW100 Design principle



# CHANNEL DRAINAGE SYSTEMS: POLYCHANNEL

Product Range – PolyChannel SPQ NW200

## PolyChannel SPQ channels

■ NW200 ■ Loading Class A-E ■ Flat  & Stepped 

- 200SPQ231 1.0m, flat, 368mm overall height
- 200SPQ291 1.0m, flat, 428mm overall height
- 200SPQ351 1.0m, flat, 488mm overall height



## PolyChannel SPQ accessories

### PolyChannel SPQ end plates

- 200SB106 End plate for channel 200SPQ231
- 200SB206 End plate for channel 200SPQ291
- 200SB306 End plate for channel 200SPQ351
- 200SB108 End plate + PVC outlet, Ø160mm, for channel 200SPQ231
- 200SB208 End plate + PVC outlet, Ø160mm, for channel 200SPQ291
- 200SB308 End plate + PVC outlet, Ø160mm, for channel 200SPQ351



### PolyChannel SKS PVC outlets

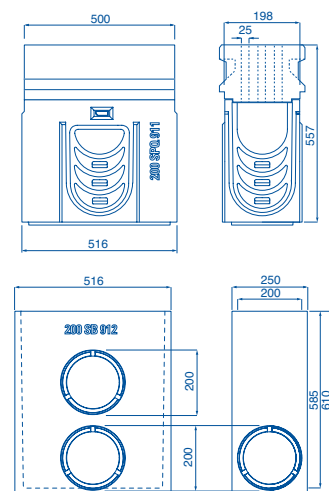
- 200SB823 PVC outlet, Ø200mm, round \*

\* **Note:** Contact Wavin's Sales Office for details of adaptors suitable for connection to 225mm TwinWall or UltraRib



### PolyChannel SPQ sump

- 200SPQ900 Sump, 0.5m (nominal length)



### PolyChannel SPQ step connectors

- 200SB099 60mm step



## PolyChannel SPQ NW200 Technical data

### Flat Channels 1000mm long

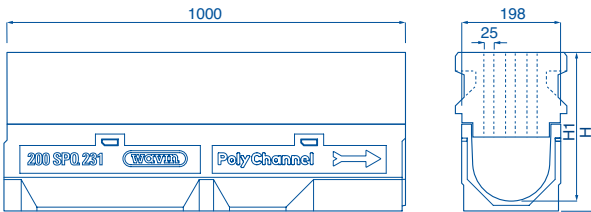
Reference	Length mm	H mm	H1 mm	Side outlet	Weight Kg	Vertical outlet	Horizontal outlet	Connection to sump
200SPQ231	1000	368	343		72.00	✓	✓	✓
200SPQ291	1000	428	403		75.81	✓	✓	✓
200SPQ351	1000	488	463		79.10	✓	✓	✓

H = Overall Height

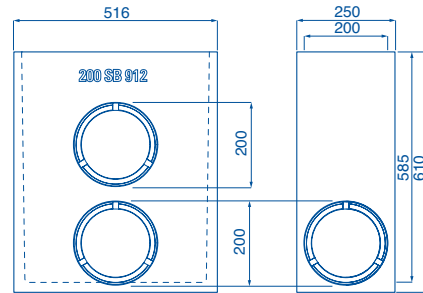
H1 = Invert Depth

## PolyChannel SPQ NW200 Product dimensions

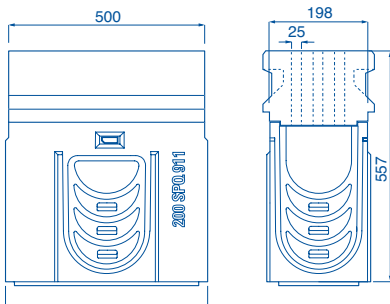
### 200SPQ Channels



### Sump base for 200SPQ900 \*

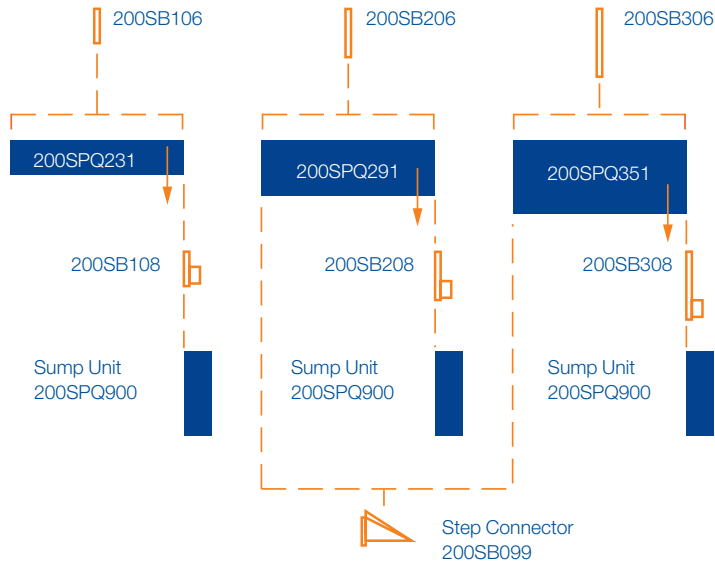


### Sump Top for 200SPQ900



\* **Note:** Use Ø200mm round PVC outlet (200SB823) and suitable adaptor to connect to 225mm TwinWall or UltraRib.

## PolyChannel SPQ NW200 Design principle







## Technical Advice and Assistance

OSMA Channel Drainage systems are backed by Wavin's comprehensive technical advisory service. This is available to provide expert assistance at every stage of a project, from planning and product selection to installation and maintenance.

### Services include:

- Full technical literature, including:
  - System Product Guides
  - Design and Installation Guides
  - Trade Price Lists
- Assistance with Channel Drainage systems product selection
- On site advice and troubleshooting

Contact Wavin Technical Design Department for prompt assistance:

### TECHNICAL DESIGN

Tel: 01249 766655

Fax: 01249 766653

Email: [technical.design@wavin.co.uk](mailto:technical.design@wavin.co.uk)

To request a copy of any item(s) of current literature, please contact:

### LITERATURE REQUESTS

Tel: 01249 766333

Fax: 01249 766332

Email: [literature@wavin.co.uk](mailto:literature@wavin.co.uk)

## Further Information

### OSMA CHANNEL DRAINAGE SYSTEMS

The following related publications are available for OSMA Channel Drainage systems:

- Product Guide
- Trade Price List
- System Selector
- Technical Data Sheet
- Nearest Equivalent Chart

### ASSOCIATED OSMA SYSTEMS

OSMA systems are fully integrated to provide a total solution for above and below ground drainage, plumbing and heating. Contact Wavin Technical Design Department for further details regarding:

- OSMA Rainwater systems
- OSMA Soil & Waste systems
- OSMA Flexible Plumbing systems
- OSMA Underfloor Heating systems
- OSMA Below Ground Drainage systems
- OSMA Water Management systems
- OSMA Pressure Pipes for Water



### WAVIN ONLINE

The complete OSMA product catalogue, together with design and installation guidance, is also available online at: [www.wavin.co.uk](http://www.wavin.co.uk)

All literature can be downloaded via the searchable PDF library at [www.wavinpdfs.co.uk](http://www.wavinpdfs.co.uk)

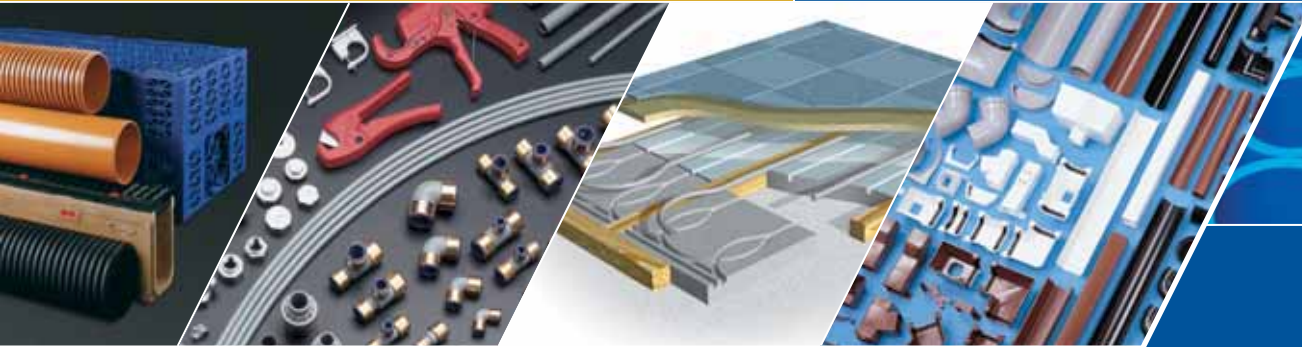
Wavin images can be downloaded at different resolutions from [www.wavinimages.co.uk](http://www.wavinimages.co.uk)

# wavin

# OSMA

## Channel Drainage Systems

## Product Guide



### Meeting your needs

PolyChannel systems, developed by Wavin Plastics Limited, form part of a comprehensive range of systems to provide intelligent solutions for all building, construction and utilities projects.

These include:

#### Above Ground Projects

- OSMA Rainwater systems
- OSMA Soil & Waste systems

#### Plumbing & Heating Projects

- OSMA Flexible Plumbing systems
- OSMA Underfloor Heating systems

#### Below Ground Projects

- OSMA Below Ground Drainage systems
- OSMA Water Management systems

#### Pressure Pipe Projects

- OSMA Pressure Pipes for Water

*All OSMA systems are backed by full technical literature and project support.*

**WATER UK**

Water UK Partner – Supporting information & learning in the water industry



ISO 9001:2000

Wavin Plastics Limited operates a programme of continuous product development, and therefore reserves the right to modify or amend the specification of their products without notice. All information in this publication is given in good faith, and believed to be correct at the time of going to press. However, no responsibility can be accepted for any errors, omissions or incorrect assumptions. Users should satisfy themselves that products are suitable for the purpose and application intended.

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