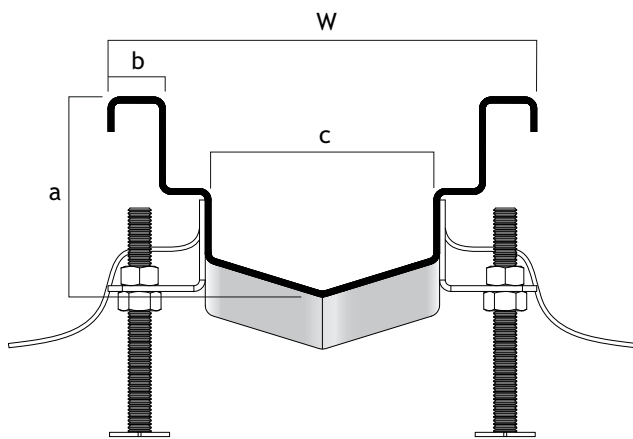


Stainless Steel Floor Channels - Standard Channel Product Tables

Harmer Stainless Steel standard floor channels are used to drain waste water from the floor and discharge it directly in to the sewage system. The high quality channels are made from 2mm 304 or 316 stainless steel and are bespoke manufactured in a wide range of shapes and sizes to suit any project requirement. Available with a choice of grating styles to suit load class requirements to BS EN 1433: 2002.

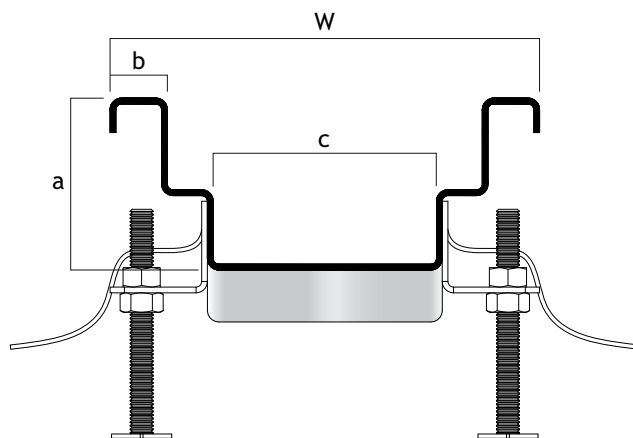


V-Shaped Channel

a (mm)	b (mm)	c (mm)	W (mm)
*	20	**	**

* Initial height, channel's bottom slope depends on the projects needs and installation requirements.

** Channel width and hydraulic width is dependant on the project requirement.

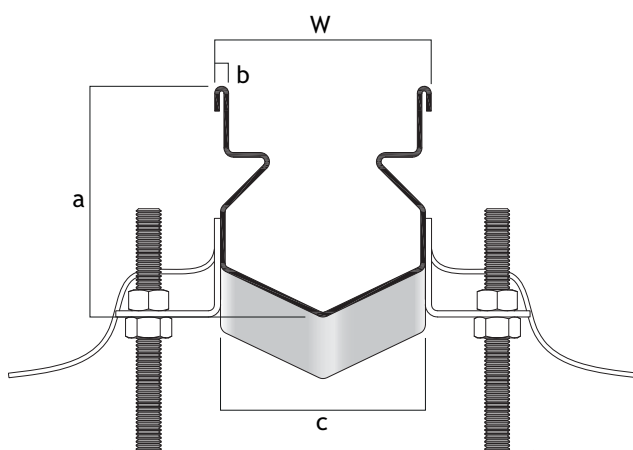


Flat Bottom Channel

a (mm)	b (mm)	c (mm)	W (mm)
*	20	**	**

* Initial height, channel's bottom slope depends on the projects needs and installation requirements.

** Channel width and hydraulic width is dependant on the project requirement.



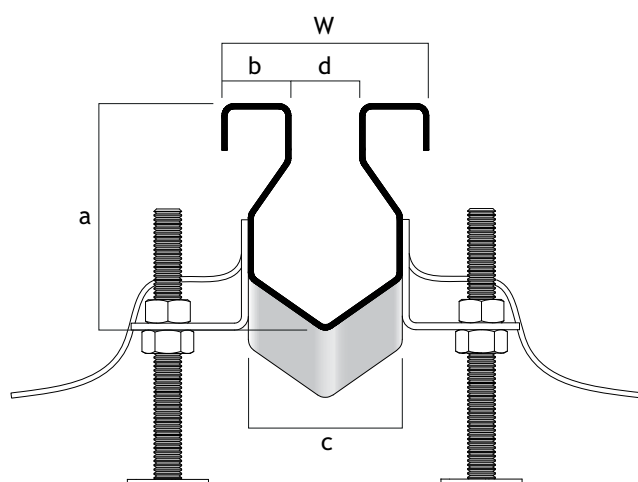
Standard Mini Channel

a (mm)	b (mm)	c (mm)	W (mm)
75	3.5	68	75

The Standard Mini Channel combines the advantages of the standard and slot channels. It has small dimensions and features gratings. These channel types are used wherever the amount of water to be drained is small, but the rodding eye is necessary. As standard such channels are made of 1.5 or 2mm sheets.

Stainless Steel Floor Channels - Slot Channel Product Tables

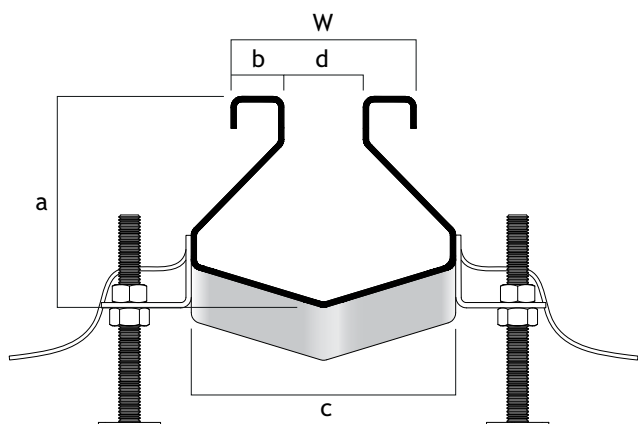
The Harmer Slot drainage channels are made from 1.5 or 2mm sheets and feature integral falls that can be adapted to suit the floor thickness. Drainage from the slot channel can be via a connected pipe system or using a trapped standard or compact trapped floor drain. The standard length of the channel with a single outlet should not exceed 10m. Channel sections over 4m in length can be connected together using a simple flange with gasket connection.



Slot Channel

a (mm)	b (mm)	c (mm)	d (mm)	W (mm)
65	20	40	20	60

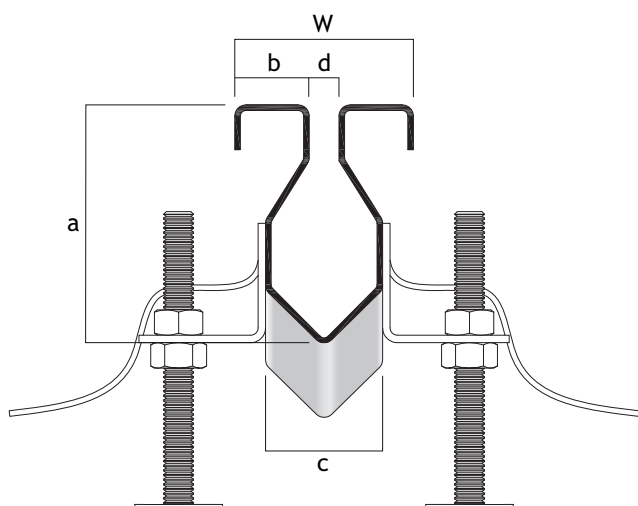
The slot channel is an economic range of linear floor drainage for draining where high flow is not required. Ideal for applications such as swimming pools, dairies and any areas where there is potential condensation run-off from machinery.



Maxi Slot Channel

a (mm)	b (mm)	c (mm)	d (mm)	W (mm)
80	20	100	30	70

The Maxi Slot channels are made of the 2mm sheet. The channel does not require grating and features high flow capacity than standard channels. One of its characteristic features is larger inlet opening and clearance. Used wherever the amount of waste water to be drained is substantial and the standard channel does not need to be used i.e.. in the absence of large solids.



Mini Slot Channel

a (mm)	b (mm)	c (mm)	d (mm)	W (mm)
65	20	31.5	8	48

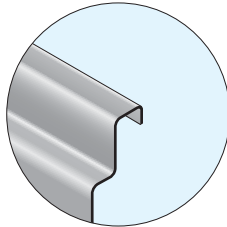
The Mini Slot Channels are made from a 2mm sheet, the channel is not covered with a grating as it has a smaller inlet opening and clearance. Its used for applications where only a small amount of water needs to be drained.

Stainless Steel Floor Channels - Channel Edgings

Channel Edge Types and Treatments

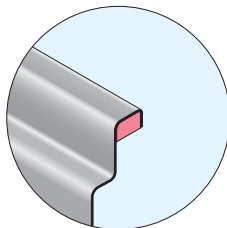
Standard Channel Edge Only

Without edge infillings and other treatments.



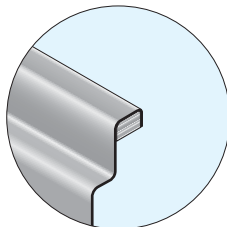
Standard Channel Edge with Synthetic Material Infill

The infill prevents the formation of a void between the concrete and channel edge during installation, thus protecting the channel perimeter from deformation if heavily loaded.



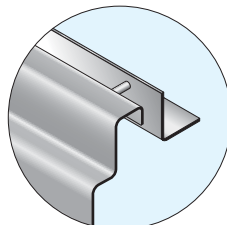
Standard Channel Edge with Stainless Steel Infill

This edge, infilled with stainless steel, should be used in areas with intensive traffic and high loads.



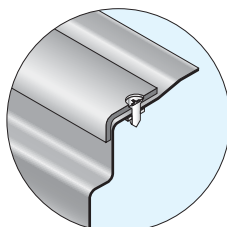
Standard Channel Edge with Angle Attachment

This edge is suitable where an expansion joint is required, for example, when drained wastewater is hot. The angle is connected to the channel by means of a steel spacer bar.



Channel Edge for Vinyl Floor

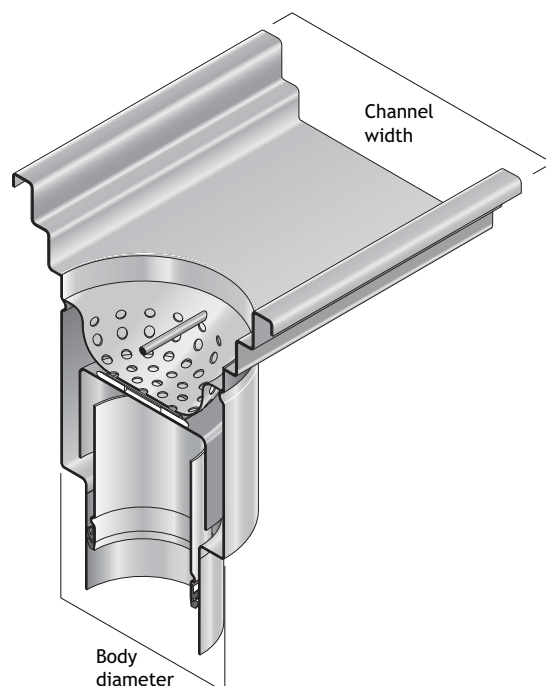
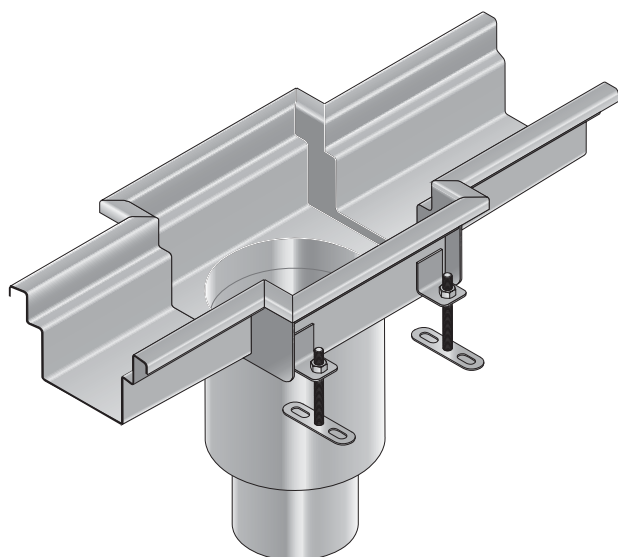
A steel clamping angle is supplied to ensure a watertight joint is achieved between the channel edge and the vinyl flooring.



Stainless Steel Floor Channels - Connections

Channel to Drain Connections

Whenever a floor drain gully is connected to a channel there is an extension section which is always 10mm deeper than the channel it's connected to. Due to the fact the gratings have load bearing elements in one direction only, the extension is asymmetric, which prevents incorrect installation.



Channel Outlet Connections

Harmer Outlet Type	Outlet Diameter (mm)	Body Diameter (mm)	Extension Size (length x width in mm)	Channel Without Extension		Flow Rate (l/s)
				Min. Channel Width (mm)	Min. Hydraulic Width (mm)	
SMV50/S15, SMV50/S20	110	110	250 x 200	S190	120	0.5
SV110/S20	110	157	245 x 240	S240	170	2.2
SVA110/S20	110	142	245 x 240	S220	150	2.2
SV110/S25	110	193	275 x 270	S270	200	3.0
SV110/S25	110	172	275 x 270	S250	180	3.0
SV160/S30	160	255	340 x 335	S330	260	9.0
SVA160/S30	160	234	340 x 335	S310	240	9.0
SV200/S40	200	348	435 x 430	S430	350	12.0
SVA200/S40	200	308	435 x 430	S390	320	12.0

Stainless Steel Floor Channels - Connections

All Harmer stainless steel floor channels come complete, with the exception of couplings since this is determined by the connecting drain pipe.

Couplings

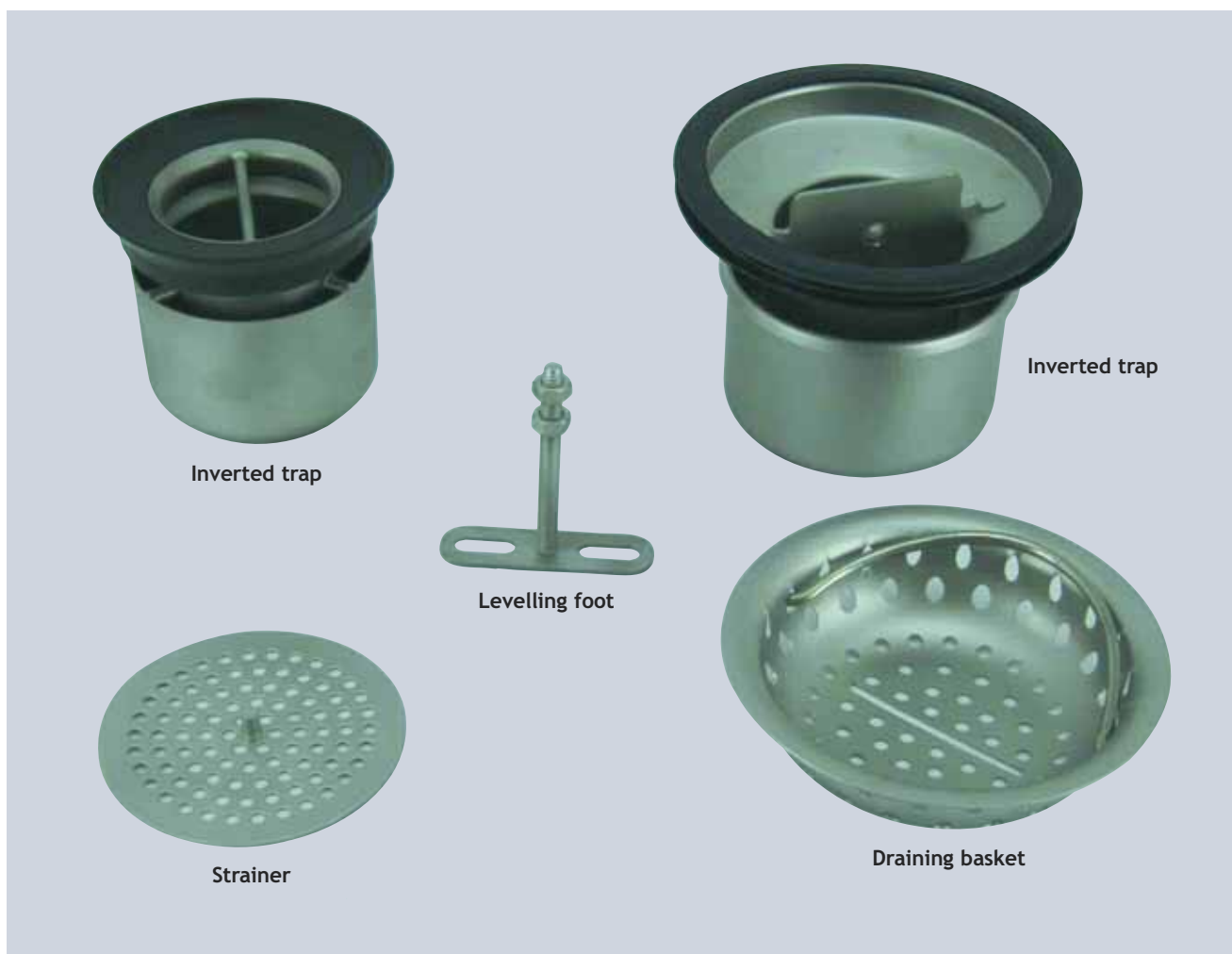
For appropriate couplings selection see pipe connections table below

		
	Duo	Adaptor
Coupling Type	Pipe Dia (mm)	Product Code
SML Duo	50	3140/50
SML Duo	100	3140/100
SML Duo	150	3140/150
SML Duo	200	3140/200
SML Adaptor	100	3102/100
SML Adaptor	150	3102/150

Pipe Connections

Outlet Size (mm)	Pipe Material and Connection Type			
	Cast Iron EN877	Stainless Steel	HDPE	PVC
50	SML Duo coupling	Post formed socket OR flexible coupling	Duo coupling	Post formed socket OR flexible coupling
110	SML Duo coupling	"O" ring socket OR SML Duo coupling	SML Duo coupling	"O" ring socket OR SML Duo coupling

Stainless Steel Floor Channels - Accessories



All accessories available on request

Stainless Steel Floor Channels - NBS Specification & General Specification

A typical NBS Specification for Harmer Stainless Steel Floor Channels. A full range of NBS specifications and floor drainage calculators are available via the Harmer online NBS Specification Builder at www.harmerdrainage.co.uk. For project specific specification advice, contact Harmer Technical Services.

NBSPlus

NBS Specification

R11 Above Ground Foul Drainage Systems

To be read with Preliminaries/General Conditions

GENERAL

115 ABOVE GROUND FOUL DRAINAGE SYSTEMS

- Sanitary and floor drainage outlets: As per detail sections below
- Waste pipework: As per detail sections below
- Discharge stack and branch pipework: As per detail sections below
- Separate ventilating pipework: As per detail sections below
- Accessories: As per detail sections below
- Disposal: As per detail sections below

SYSTEM PERFORMANCE

210 DESIGN

- Complete the design of the above ground foul drainage system
- Standard: To BS EN 1433 and EN 1253
- Proposals: Submit drawings, technical information, calculations and manufacture's literature

220 COLLECTION AND DISTRIBUTION OF FOUL WATER

- General: Complete, and without leakage or noise nuisance

230 DESIGN PARAMETERS - GENERAL

- Quick, quiet and complete, self-cleansing in normal use, without blockage, cross-flow, back-fall, leakage, odours, noise nuisance or risk to health
- Pressure fluctuations in pipework (maximum): ± 38 mm water gauge
- Water seal retained in traps (minimum): 25mm

PRODUCTS

310 HARMER FLOOR DRAINAGE

Floor Construction: In-situ concrete with screed, to ceramic tile finish
Manufacturer: Alumasc Exterior Building Products Ltd,
White House Works, Bold Road, Sutton, St Helens, Merseyside WA9 4JG
Tel: 01744 648400, Fax: 01744 648401.
Email: harmer@alumasc-exteriors.co.uk

Reference: Harmer Stainless Steel Channel Drainage System
Material: Austenitic Grade 304 Stainless Steel, pickle passivated
Sizes: 50mm depth minimum; width - as required
Outlet Type: Horizontal/Vertical
Grate Type: Perforated/Ladder/Mesh Anti-Slip/Plate
Load Class: A15/B125/C250/D400/E600
Accessories: Foul Air Trap/Sediment Basket/Tundish
Jointing: Bolted flange joint with gasket



Create Harmer Drainage NBS specifications by selecting the required product range, profile, size and finish by visiting:
www.harmerdrainage.co.uk

General Specification Notes

PRODUCTS

310 HARMER FLOOR DRAINAGE

Floor Construction: In-situ concrete with screed, to ceramic tile floor finish

Manufacturer:
Alumasc Exterior Building Products Ltd,
White House Works, Bold Road, Sutton,
St Helens, Merseyside WA9 4JG

Tel: 01744 648400, Fax: 01744 648401.

Email: harmer@alumasc-exteriors.co.uk

Product: Harmer Stainless Steel Channel Drainage system

Material: Austenitic Grade 304 Stainless Steel, pickle passivated

Sizes: 50mm-80mm Sloping invert, 2500mm long

Width: 155mm

Outlet Option: Horizontal Gully

Grating: Ladder

Load Class: C250

Accessories: Foul Air Trap, Sediment Basket, Tundish.

Jointing: Bolted Flange Joint with gasket