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DELIVERY AVAILABLE***

*For next day delivery, order must be received before 11am

HARMER[®]

BUILDING DRAINAGE

Modular 135 Stainless Steel Drainage

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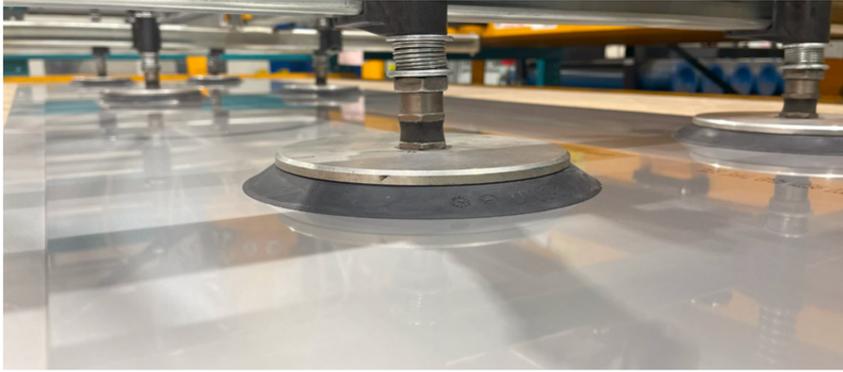


Harmer Building Drainage - Stainless Steel

In the world of modern building design, where form and function seamlessly intertwine, Harmer Stainless Steel drainage stands out as a true innovator, offering a level of performance, durability, and aesthetic appeal for buildings and amenity areas.

Engineered for Exceptional Performance

The Harmer products are meticulously crafted to deliver unparalleled drainage capabilities. Featuring a robust and corrosion-resistant materials and innovative designs, system are designed and built withstand the harshest of environments, ensuring reliable performance year after year.



Elevating the Aesthetic

Gone are the days of utilitarian drainage systems that detract from the overall architectural vision. The Harmer Stainless Steel systems is a true work of art, seamlessly blending form and function to create a visually stunning addition to any building. With a wide range of customizable grate designs, finishes, and configurations, you can tailor the system to perfectly complement your unique design aesthetics, elevating the overall appeal of your project.

Uncompromising Durability

In a world where resilience is paramount, the Harmer Stainless Steel system stands tall, offering a level of durability that simply cannot be matched. Crafted in the UK using latest technology, the system is built to last, ensuring it remains a steadfast and reliable component of your building's infrastructure for decades to come.



UK Manufacturing at it's finest



UK DESIGNED & MANUFACTURED

Our facilities are equipped with the latest technology, allowing the

design and manufacture of an extensive product range, including bespoke solutions. Where applicable, our skilled workforce utilises automated processes for maximum efficiency, resulting in the following manufacturing capabilities:

- Laser Cutting
- Folding
- Welding
- Machining
- Milling
- Linishing



Harmer is part of the AWMS family



Alumasc (AWMS) is a UK-based supplier of premium building products. The majority of the group's business focusses on sustainable building products which enable customers to manage energy and water use in the built environment.

They include: Skyline Architectural Aluminium; Alumasc Rainwater Gutters & Downpipes; Harmer Building Drainage; Wade Building Drainage and Gatic Drainage & Engineered Access Covers.



Quality and Sustainability

In addition to complying with environmental legislation, Alumasc is committed to developing its own measures to limit the adverse effects of its activities on the environment. To this end, Alumasc operates an environmental policy that fully integrates all aspects of company activities.



Green Economy

The Alumasc Group plc are pleased to be recognised by London Stock Exchange as contributing to the global green economy.

The Mark is given to companies and funds that derive more than 50% of revenues from environmental solutions.

The Alumasc Group plc provides high-quality, low carbon, sustainable building products, systems and solutions which help manage the scarce resources of energy and water in the built environment and improve quality of life for the owner/occupier

Alumasc operates a series of quality assurance management systems which is independently audited. This quality management system extends to our network of Stockists, for single source accountability and peace of mind. Individual products and systems are certified by the British Board of Agrément.

ISO 9001:2015

The ISO 9001 framework governs the management of many aspects of our support services, manufacturing and transport operations. Alumasc is committed to continual development and, along with the ISO 14001: 2004 Environmental Management Standard, ISO 9001 provides the tools to monitor and feed back information from all areas of the business to ensure a first class service is maintained.

ISO 14001:2015

Alumasc's manufacturing sites at Burton Latimer and Dover are independently audited to the ISO 14001: 2004 Environmental Management Standard. Alumasc is committed to achieving improvements, not only as a good neighbour to the surroundings of their manufacturing plants, but in the responsible sourcing of raw materials and monitoring of the impact on the environment as a whole.

Professional Bodies



Technical and Customer Service Support

Alumasc Technical Services is a fully experienced team of drainage specialists who use the latest CAD technology and calculation tools to provide an unrivalled support service to Architects, Designers and Contractors.

Alumasc offers a full technical and support service as standard for all projects:

- Drainage calculations
- Takeoffs from drawings
- BIM, CAD and NBS Specifications
- Detailed technical advice and quotes
- Site surveys
- Detailing advice
- Samples on request

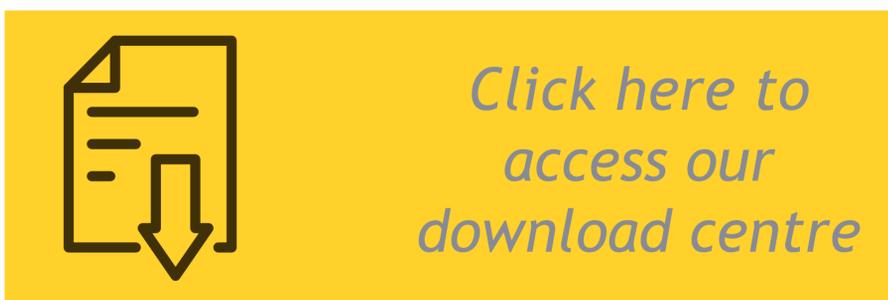
Specialist knowledge across the water management cycle

Recommended Installers

Alumasc Rainwater has a network of recommended installers covering the UK & Ireland. Visit the Alumasc WMS website to view.

Approved Stockists / Suppliers

Our products are delivered by approved suppliers throughout the UK & Ireland. To find your nearest stockist, visit the 'Where to buy' section on our website.



Orders:

Orders are supplied in accordance with our current Terms & Conditions of Sale, which are downloadable from the website.

Carriage Charges:

Any appropriate surcharges, including next-day, time-specific, and special vehicles (small, rigid, Hiab, etc.) will be applied to all deliveries in accordance with our published schedule of carriage charges prevailing at date of despatch. Copies are available on request.

Disclaimer:

Due to continuous product development, descriptions and illustrations may be subject to change without notice. All prices are subject to VAT at the current rate. While every effort will be made to maintain prices at the published levels, Alumasc Building Products (The Company) reserves the right to amend those prices without notice should the need arise.

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Email: info@alumascwms.co.uk

Website: www.alumascwms.co.uk

Modular 135 - System Introduction

Elevate Your Building's Drainage with the Harmer Modular 135 Stainless Steel System

Introduction

At Harmer Drainage, we know that effective, reliable drainage is essential for any commercial or residential building. That's why we're proud to introduce the Harmer Modular 135 Stainless Steel - a high-performance linear drainage channel designed to seamlessly integrate into a wide range of building projects.

Constructed from durable, corrosion-resistant stainless steel, the Harmer Modular 135 offers exceptional strength and longevity. With a nominal grating width of 135mm and load class ratings up to C250, this channel drainage system can withstand heavy foot traffic and even light vehicle loads, making it the ideal solution for high-traffic areas.

In addition to its functionality, the Harmer Modular 135 Stainless Steel offers a sleek, modern aesthetic to complement any architectural style, allowing you to create a cohesive, visually striking finish that will enhance the overall look and feel of your project. Available in a variety of surface finishes, this drainage system can be customised to suit your specific design preferences.

Designed for simple, efficient installation, the Harmer Modular 135 Stainless Steel can be easily tailored to meet the unique drainage requirements of your building. Whether you're working on a commercial high-rise, a residential development, or any other type of construction project, this innovative drainage solution offers the perfect balance of performance and style.



Customisation to Meet Your Unique Needs

The Harmer Modular 135 Stainless Steel is designed with flexibility in mind, allowing you to tailor the system to the specific requirements of your building project.

Channel Body Options:

- Nominal channel width of 135mm, V profiled channel base for enhanced flow efficiency, for a cleaner, more hygienic system
- Level invert for ease of installation.
- Variety of channel body heights, ranging from 50 to 100mm to accommodate different drainage capacity needs.
- Straightforward, modular components for easy on-site customisation and assembly.

Grate Options:

- A wide selection of grate styles, including Ladder, perforated, anti-slip mesh and Heel Proof designs
- All manufactured from 304 stainless steel, with optional 316 available made to order
- Robust stainless steel gratings available in 500mm and 1000mm lengths to meet load class A15 up to C250

Accessories:

- Extensive range of accessories, including end caps, corners, T-junctions, centre and end outlet configurations.
- Edge in-fill to provide load stability to the channel edge, minimising the risk of load transmission between the gully and concrete floor, helping to minimise the risk of floor fracture that can harbour dirt and micro-organisms.
- Matching stainless steel floor gullies
- Foul air traps, sediment sieve and filter buckets for applications where cleaning and odour control is required.

Gully Options

- For projects that require complementary gully options, compact horizontal and vertical drain body connections are available with 110mm outlet.
- A range of gully gratings to match channel designs, with built-in height adjustment to achieve accurate finished floor level.
- Foul air trap and waterproof clamping as standard

With the ability to mix and match every aspect of the system, from the grate design to the channel body dimensions, the Harmer Modular 135 Stainless Steel offers unparalleled flexibility. Our experienced technical team are on hand to help with all aspects of your project to choose the drainage solution for your building project.

For projects that require a bespoke solution, Harmer Modular 135 Stainless Steel can be tailored to your unique requirements.



Typical Sectors



Food Retail



Food Processing



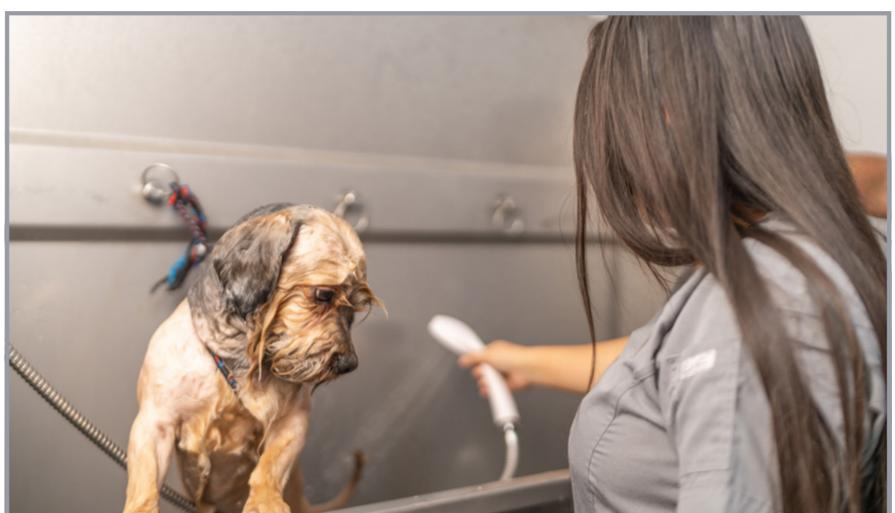
Chemical & Pharmaceutical



Brewing, Bottling & Canning



School & Leisure



Human & Animal Health Care



Agricultural



Restaurants & Catering

Introduction

Channels

Gratings

Accessories

Outlets

Installation

Design & Specification

System Key Features

The Harmer Modular 135 linear floor drainage channel, is a high-performance stainless steel system offering four grating profiles designed to handle load class A15 to C250 in areas of pedestrian and light vehicular traffic.

Main Characteristics

Enhanced Performance



Grating

- Perforated
- Mesh Anti-Slip
- Heel-Proof
- Ladder



Body

- 304 Stainless Steel
- V shaped bottom



- 50mm, 75mm & 100mm
- 316 Stainless Steel available to order - speak to your ASM

Outlet

- 110mm vertical outlet only

Trap

- 1l/s vertical removable trap

Sieve

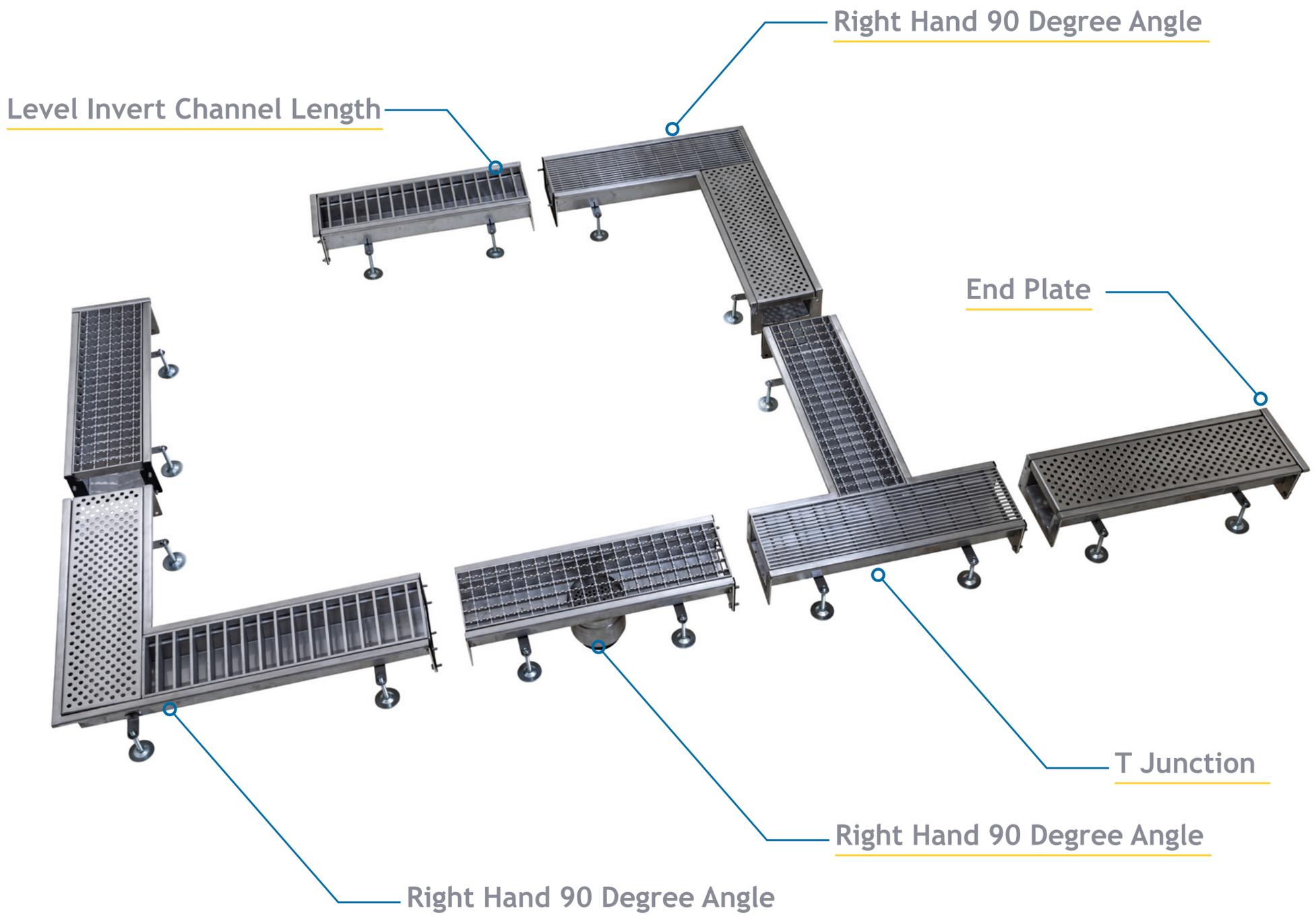
- Stainless Steel 304 removable sieve

Key Benefits of the Harmer Modular 135 Range

- Designed and manufactured in the UK
- Stocked for next day delivery
- 4 grate types
- Extensive range of accessories including end caps, corners, T-junctions, centre and end outlet configurations
- 304 Stainless steel as standard, 316 made to order
- Nuts, bolts, gaskets included
- Dry jointed system
- Easy to install with standard tools

System Overview

Harmer Modular 135 consist of a series of components that fit together to suit the required layout. Below is a schematic showing the component options of the stainless steel grade 304 channel and grating options.



System Overview

Load Class Guidelines

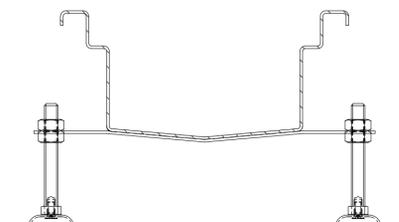
Harmer Modular 135 has been tested in accordance with BS EN 1433. The table to the right demonstrates an approximate comparison of load classes across different systems to help aid specification.

Application	BS EN 1433 & BS EN 124	BS EN 1253	FACTA	Slow Moving Pneumatic Tyres Tonnes	Slow moving Solid Tyres Tonnes
	A15	K3	A	0.5	N/A
		L15	AA	1.5	N/A
	B125	R50	AAA	2.5	0.5
		M125	B	5.0	0.75
	C250	N250	C	6.5	1.0

Channel Edge Options

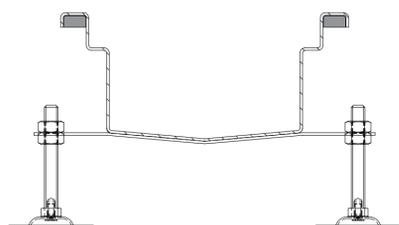
Harmer Modular 135 channel components are available with different edge details to suit varying floor finish applications and load class requirements.

Standard Channel Edge



- Suitable edge detail for light duty applications
- Return edge for use with tiled, concrete and resin flooring
- Load Class A15 to BS EN 1433

PVC Edge Infill



- Required in medium duty applications
- Return edge for use with tiled, concrete and resin flooring
- PVC Infill is supplied loose to be cut and installation on site
- Load Class B125 and above BS EN 1433

Harmer Modular 135 System - Range Summary

Designed and manufactured in the UK from 304 & 316 stainless steel, this robust, dry jointed system is easy to install and requires only minimal maintenance during its life.

Channel Options

Stainless steel channels in grade 304 available next day, grade 316 is available made to order. Three different depths with lengths, changes in direction and end plates to suit your project requirements.

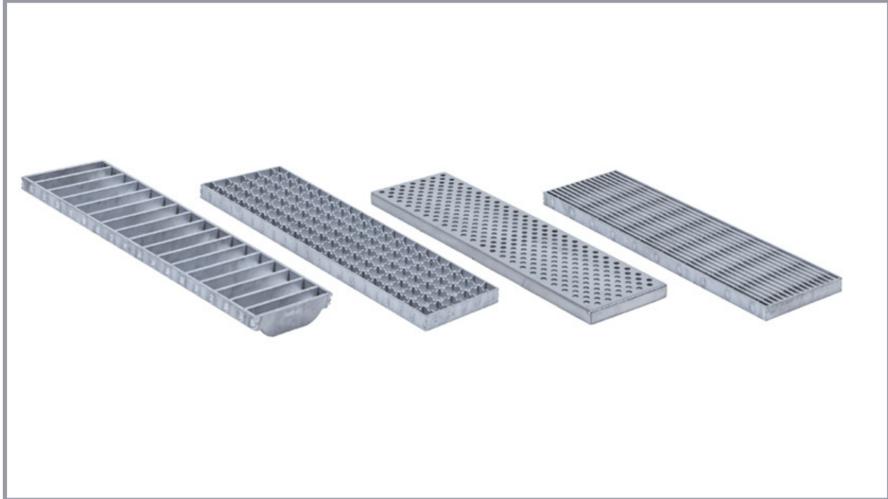
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Grating Options

Visually appealing, robust and functional grating options in a variety of lengths to suit many applications.

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Accessories & Spares

Comprehensive selection of accessories to enhance the system or for repair and maintenance purposes which will ensure maximum longevity of the product.

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Stainless Steel Floor Gullies & Adjustable Height Grating Options

Vertical and horizontal stainless steel gully and grating options to compliment the modular stainless steel channel system.

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Images are for illustration only.

Channel Components

Modular, high performance stainless steel channels suited for a wide range of applications



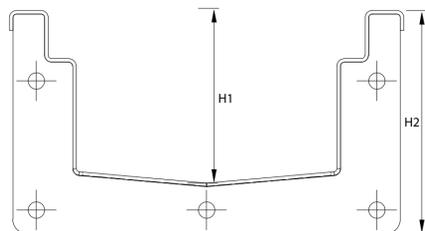
Channel Components

The Harmer Modular 135 Channel is available as standard in 3 depths, 50mm, 75mm and 100mm. Standard channel length are available in 0.5m, 1m, 1.5m, 2m and 2.5m.

A full range of accessories, including 90 degree corners, T-junctions, centre and end outlets as well as end plates are available to complete the system.

Standard channel detail

Channel Depth (mm)	H1 (mm)	H2 (mm)
50	48	70
75	73	95
100	98	120



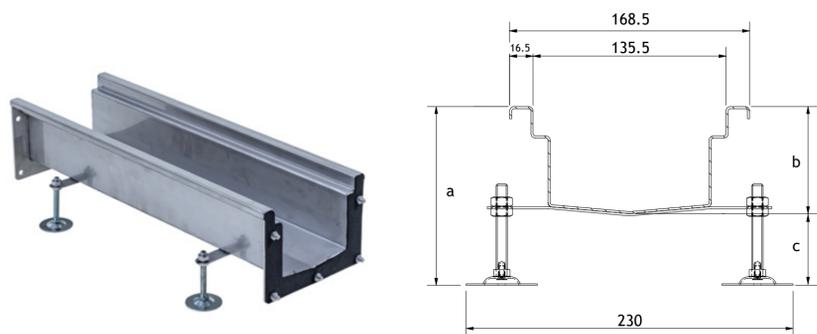
Features

- A1 Fire rated channel
- Fully compliant to EN 1253
- Fully tested and classified to EN 1433
- Available in grade 304 stainless steel as standard or made to order in 316
- Made from pickle passivated sheet with factory applied weld treatment.
- Easy connection to gully via vertical outlet connection



Level Invert Channel Length

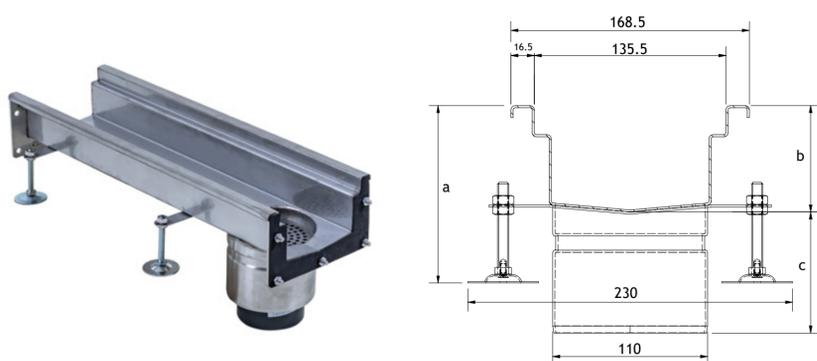
- Level invert depth meaning constant across full length with “V” shaped channel base
- Height adjustable via threaded legs
- Components come with all nuts, bolts, gasket and feet required



Channel Length (mm)	a (mm)	b (mm)	c (Max) (mm)	Weight (kg)	Product Code
500	100	50	50	2.0	M135/50/0.5M
1000	100	50	50	3.6	M135/50/1M
2000	100	50	50	6.9	M135/50/2M
2500	100	50	50	8.4	M135/50/2.5M
500	125	75	50	2.4	M135/75/0.5M
1000	125	75	50	4.3	M135/75/1M
2000	125	75	50	8.1	M135/75/2M
2500	125	75	50	10.0	M135/75/2.5M
500	150	100	50	2.8	M135/100/0.5M
1000	150	100	50	4.9	M135/100/1M
2000	150	100	50	9.4	M135/100/2M
2500	150	100	50	11.6	M135/100/2.5M

Channel Length with End Outlet

- Level invert depth meaning constant across full length with “V” shaped channel base
- Components come with all nuts, bolts, gasket and feet required
- 110mm diameter end outlet with removeable trap and strainer included
- Height adjustable via threaded leg

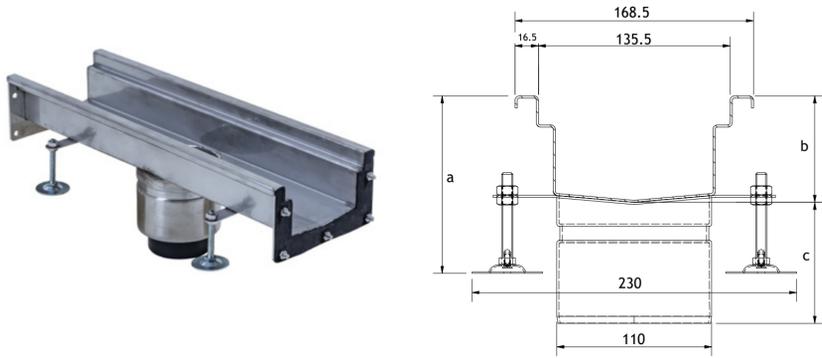


Channel Length (mm)	a (mm)	b (mm)	c (Max) (mm)	Weight (kg)	Product Code
500	100	50	50	2.5	M135/50/0.5M/EO
1000	100	50	50	4.1	M135/50/1M/EO
500	125	75	50	2.9	M135/75/0.5M/EO
1000	125	75	50	4.7	M135/75/1M/EO
500	150	100	50	3.2	M135/100/0.5M/EO
1000	150	100	50	5.4	M135/100/1M/EO

Channel Components

Channel Length with Centre Outlet

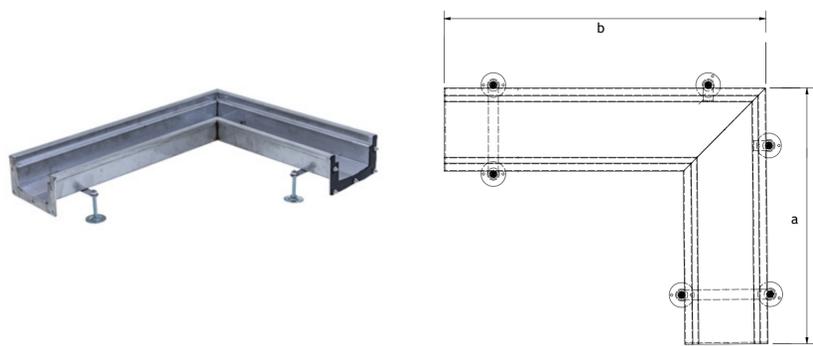
- Level invert depth meaning constant across full length with “V” shaped channel base
- 110mm diameter centre outlet with removeable trap and strainer included
- Height adjustable via threaded legs
- Components come with all nuts, bolts, gasket and feet required



Channel Length (mm)	a (mm)	b (mm)	c (Max) (mm)	Weight (kg)	Product Code
500	100	50	50	2.5	M135/50/0.5M/CO
1000	100	50	50	4.1	M135/50/1M/CO
500	125	75	50	2.9	M135/75/0.5M/CO
1000	125	75	50	4.7	M135/75/1M/CO
500	150	100	50	3.2	M135/100/0.5M/CO
1000	150	100	50	5.4	M135/100/1M/CO

Left Hand 90 Degree Angle

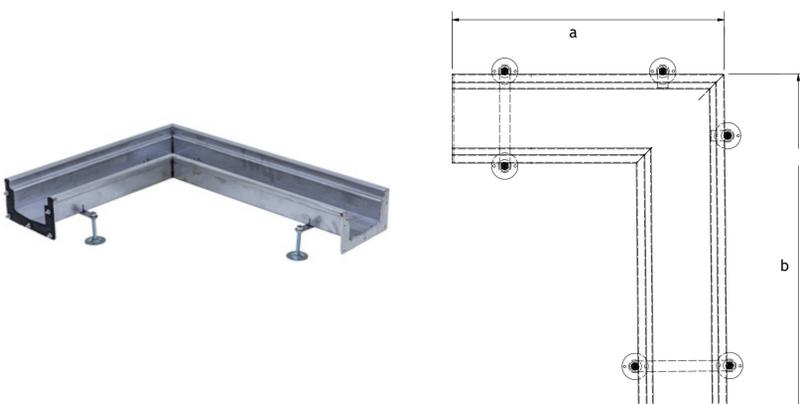
- Level invert depth meaning constant across full length with “V” shaped channel base
- Handed 90° angles which accommodate the standard 500mm length gratings
- Height adjustable via threaded legs
- Components come with all nuts, bolts, gasket and feet required



a (mm)	b (mm)	Weight (kg)	Product Code
516.5	651.5	3.6	M135/50/90L
516.5	651.5	4.4	M135/75/90L
516.5	651.5	5.0	M135/100/90L

Right Hand 90 Degree Angle

- Level invert depth meaning constant across full length with “V” shaped channel base
- Handed 90° angles which accommodate the standard 500mm length gratings
- Height adjustable via threaded legs
- Components come with all nuts, bolts, gasket and feet required

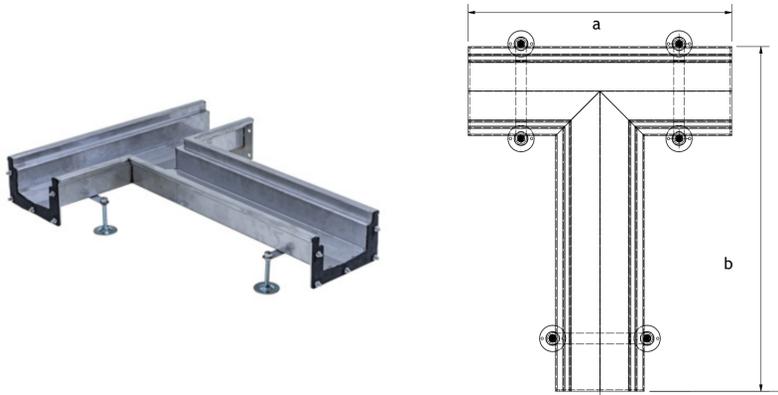


a (mm)	b (mm)	Weight (kg)	Product Code
516.5	651.5	3.6	M135/50/90R
516.5	651.5	4.4	M135/75/90R
516.5	651.5	5.0	M135/100/90R

Channel Components

T Junction

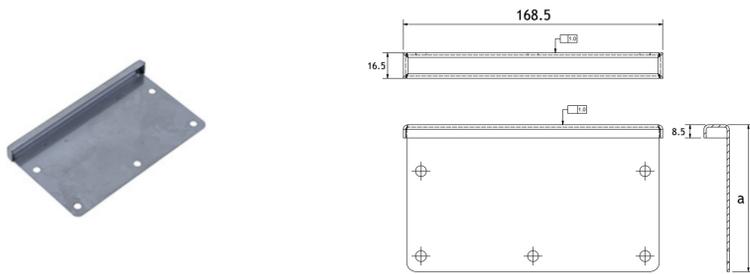
- Level invert depth meaning constant across full length with “V” shaped channel base
- Height adjustable via threaded legs
- T Junction change in direction designed to accommodate the standard 500mm length gratings
- Components come with all nuts, bolts, gasket and feet required



a (mm)	b (mm)	Weight (kg)	Product Code
500.5	652	3.8	M135/50/T
500.5	652	4.6	M135/75/T
500.5	652	5.2	M135/100/T

End Plate

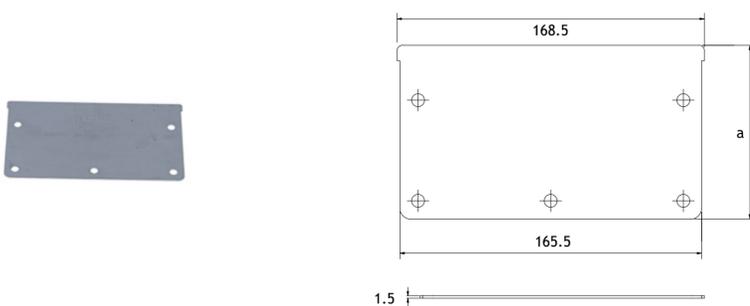
- Provided as pictured without any additional items as nuts, bolts and gaskets provided with the channel component
- Retains the show edge of 16.5mm at the end of a channel run
- An end plate is required at the end of each run of the overall channel



a (mm)	Width (mm)	Show Edge (mm)	Weight (kg)	Product Code
100	168.5	16.5	0.2	M135/50/EP
125	168.5	16.5	0.2	M135/75/EP
150	168.5	16.5	0.3	M135/100/EP

Flat End Plate

- Provided as pictured without any additional items as nuts, bolts and gaskets provided with the channel component
- Flat end plate, designed to fit flush against structure if required
- Does not maintain the 17mm show edge of the rest of the system
- An end plate is required at the end of each run of the overall channel



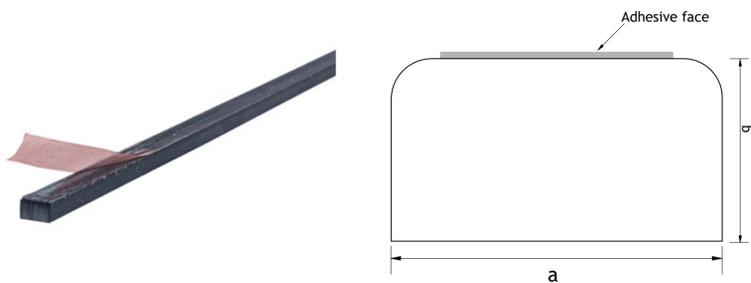
a (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Product Code
100	168.5	1.5	0.1	M135/50/FEP
125	168.5	1.5	0.2	M135/75/FEP
150	168.5	1.5	0.2	M135/100/FEP

Channel Components

PVC Infill Edge Support

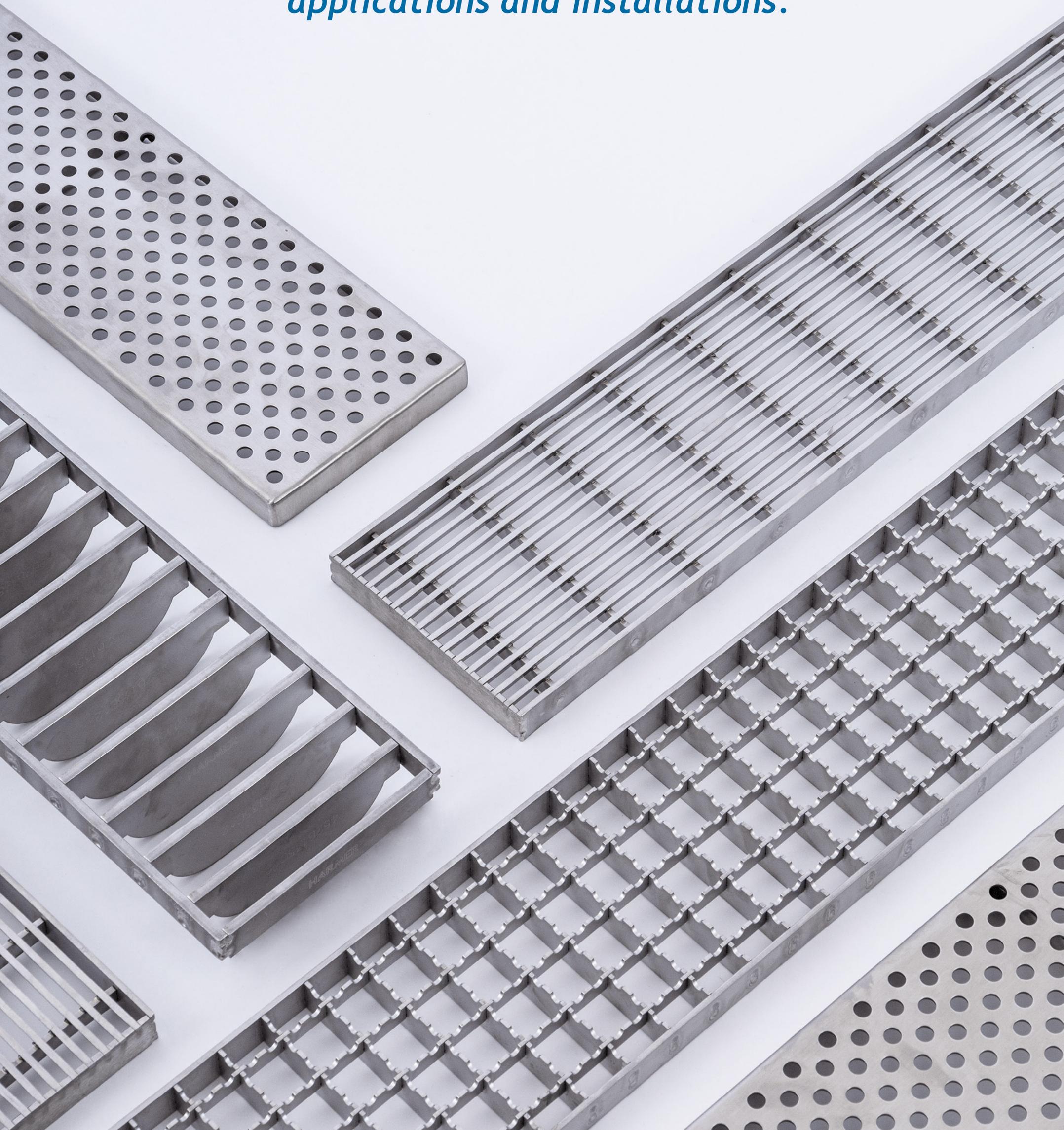
- Edge infill detail to support the underside of the edge from point load damage
- Manufactured from PVC
- Only required in load class situations B125 and over but can be used for lower load classes if required

Item Length (mm)	a (mm)	b (mm)	Weight (kg)	Product Code
3000	12.75	7.0	0.4	M/PVC/3M



Grating Options

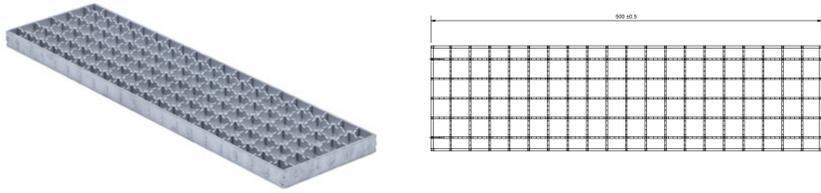
Four stylish and durable grate options suited to a range of applications and installations.



Grating Options

The Modular 135 system offers a wide selection of gratings in differing styles to suit any application, allowing you to create not only the perfect aesthetic, but the safest solution for your project.

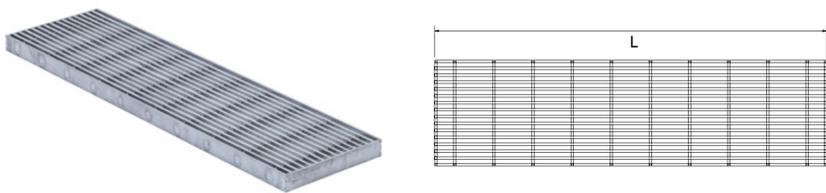
Mesh Anti-Slip Gratings



Grating Length (mm)	Grating Depth (mm)	Load Class	Weight (kg)	Product Code
500	20	A15	1.7	M135/ASG/0.5M
1000	20	A15	3.2	M135/ASG/1M

- Load Class: A15
- Ideally suited for use in kitchen and food preparation areas
- Available in both 500mm and 1000mm
- NOT barefoot safe

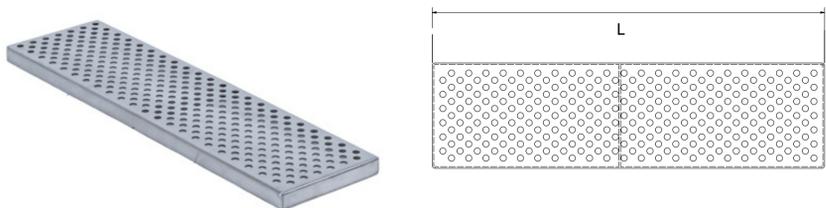
Heel Proof Gratings



Grating Length (mm)	Grating Depth (mm)	Load Class	Weight (kg)	Product Code
500	20	A15	1.6	M135/HPG/0.5M
1000	20	A15	3.1	M135/HPG/1M

- Load Class: A15
- Ideally suited for use in public realm, changing areas, domestic showers etc.
- Available in both 500mm and 1000mm
- Barefoot safe

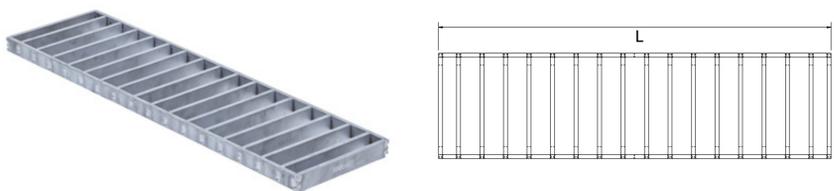
Circular Perforated Gratings



Grating Length (mm)	Grating Depth (mm)	Load Class	Weight (kg)	Product Code
500	20	A15	1.2	M135/CPG/0.5M
1000	20	A15	2.4	M135/CPG/1M

- Load Class: A15
- Ideally suited for changing areas and domestic showers
- Available in both 500mm and 1000mm
- Barefoot safe

Ladder Gratings



Grating Length (mm)	Grating Depth (mm)	Load Class	Weight (kg)	Product Code
500	20	C250	3.5	M135/LDG/0.5M

- Load Class: Up to C250
- Ideally suited for higher load class situations such as warehousing, agricultural and industrial applications
- Available in both 500mm only
- NOT barefoot safe
- Grating perimeter depth is 20mm, grating centre depth is 37mm

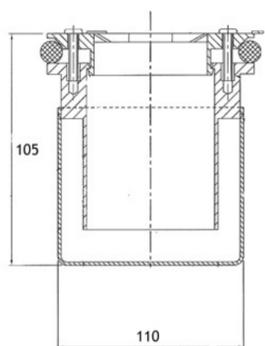
Accessories & Spares

*Upgrade or refurbish your 135
system with a full range of
parts available direct*



Accessories

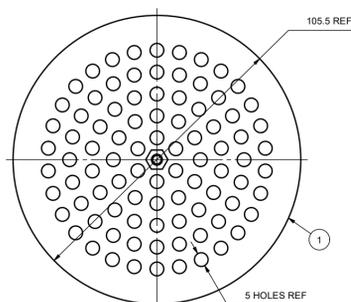
Foul Air Trap



Diameter (mm)	Height (mm)	Product Code
110	105	M/FAT

- Included as standard with every centre or end outlet
- Removeable foul air trap required to stop harmful gases entering the building for internal applications
- Flow rate of 1.0 l/s but is reduced when used in conjunction with strainers
- If removed please ensure for internal applications a trap has been include in the system

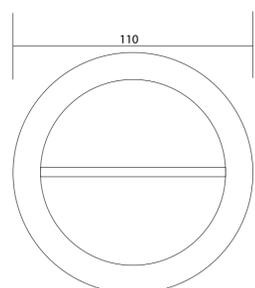
Sediment Sieve



Diameter (mm)	Product Code
110	M/SED

- Included as standard with every centre or end outlet
- Sits just above the foul air trap so can be used with one and other
- Manufactured from grade 304 stainless steel

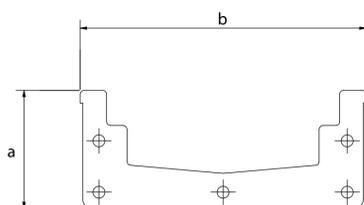
ABS Filter Bucket



Diameter (mm)	Height (mm)	Product Code
110	38	M/FB

- For when larger debris may enter drainage systemx
- Designed to capture this before entering the pipework
- Requires regular maintenance to ensure blockage does not occur
- Occupies the same position as the foul air trap so a trap will need to be included in the line

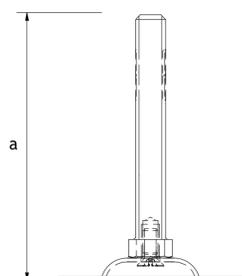
Gasket



Size (mm)	a (mm)	b (mm)	Product Code
50	69	167.5	M135/50/G
75	94	167.5	M135/75/G
100	119	167.5	M135/100/G

- Included as standard with every channel component where required
- Only required to be ordered individually as spares or replacements
- Manufactured from 1.5mm WRAS approved silicone sponge

Adjustable Foot



a (Max) (mm)	Product Code
50	M/FT60

- Provides a maximum of 50mm of adjustability in height
- Included as standard with all components required
- Needs anchoring down when commencing concrete pour to ensure channel does not rise during installation

Drainage Outlets

*110mm vertical and horizontal outlets,
manufactured in grade 304 stainless steel
with complimentary grating offer*

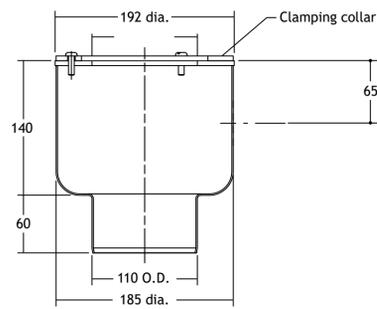


Drainage Outlets

Part of the Harmer Modular 135 stainless steel range are a complementary offer of compact floor gully outlets, available in vertical and horizontal configurations with grating options to match that of the channel system.

The innovative floor gully system allows for fine height adjustment via the 4" NPSM threaded bezels that adjust to the desired finished floor height, all the below bezels and gratings come as standard with a removable foul air trap. Gully bodies have integral clamping collars, for use with waterproof membranes.

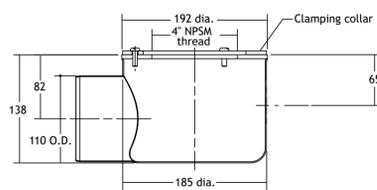
Vertical Spigot Outlet - Deep Sump



Outlet Size (mm)	Connection	Weight (kg)	Product Code
110	Spigot	2.7	SDVS100

- Female 4" NPSM threaded connection to accept grating
- 110mm (4") diameter spigot for connecting onto pipework
- Deep sump to maximise available flow rate
- Grade 304 stainless steel

Horizontal Spigot Outlet - Deep Sump



Outlet Size (mm)	Connection	Weight (kg)	Product Code
110	Spigot	2.7	SDHS100

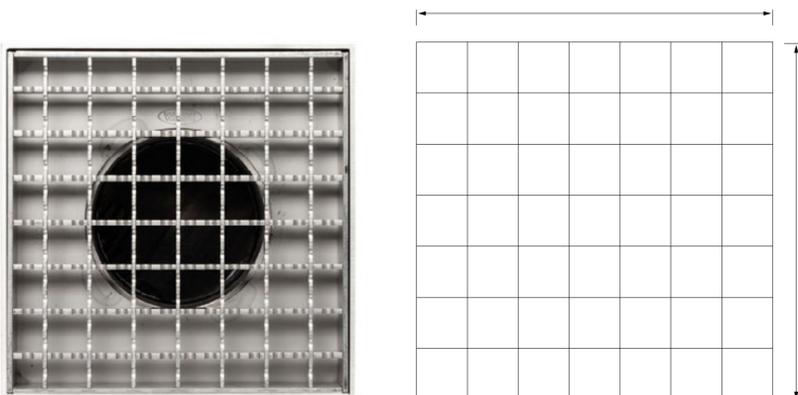
- Female 4" NPSM threaded connection to accept grating
- 110mm (4") diameter spigot for connecting onto pipework
- Deep sump to maximise available flow rate
- Grade 304 stainless steel



Adjustable Height Grating Options

The Harmer stainless steel grating range is manufactured from grade 304. Connection is made onto any NPSM threaded cast iron or stainless steel body which allows for fine threaded height adjustment of the grating to suit a wide range of applications.

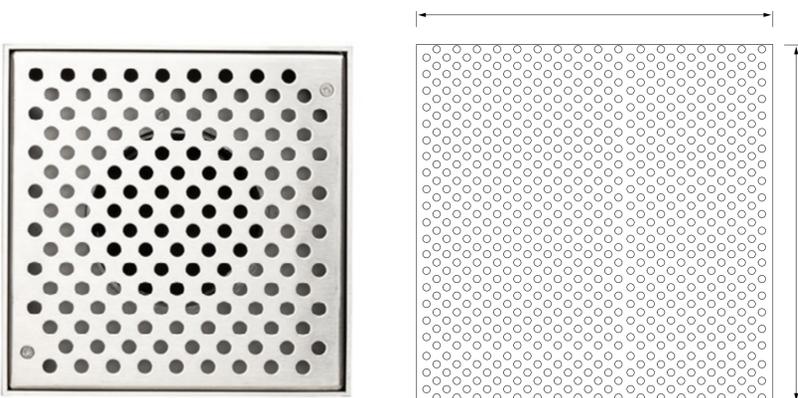
Anti-Slip Mesh Grating Assembly



Frame Size (mm)	Grating Size (mm)	Aperture (mm)	Load Rating	Product Code
200x200	195x195	20	A15	AS20/SS/4/T

- Load Class: A15
- Ideally suited for use in kitchen and food preparation areas
- Available in 195mm x 195mm grating
- NOT barefoot safe

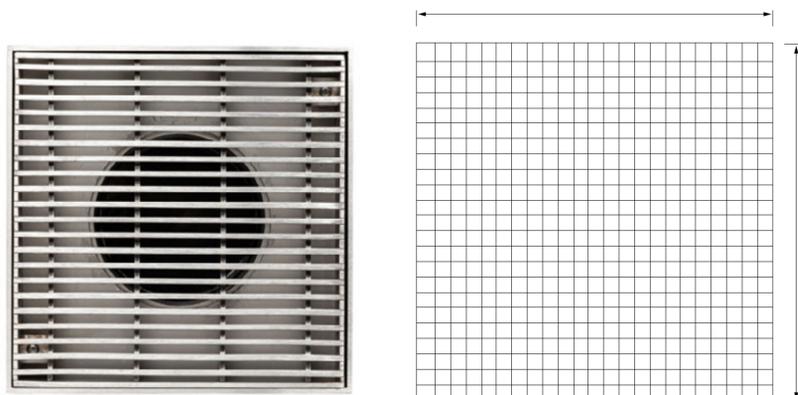
Circular Perforated Grating Assembly



Frame Size (mm)	Grating Size (mm)	Aperture (mm)	Load Rating	Product Code
200x200	195x195	10	A15	PC20/SS/4/T

- Load Class: A15
- Ideally suited for changing areas and domestic showers
- Available in 195mm x 195mm grating
- Barefoot safe

Heel Proof Grating Assembly



Frame Size (mm)	Grating Size (mm)	Aperture (mm)	Load Rating	Product Code
200x200	195x195	5	A15	HP20/SS/4/T

- Load Class: A15
- Ideally suited for use in public realm, changing areas, domestic showers etc.
- Available in 195mm x 195mm grating
- Barefoot safe

Installation, Care & Maintenance

A straight forward dry jointed system with minimum hassle care and maintenance



Installation, Care & Maintenance

Harmer Modular 135 channel is designed for direct connection to 110mm pipework, where additional sump gully is required, please contact Harmer Technical for options. The Modular 135 channel system is designed for installation within a concrete floor.

Installation can be done prior to the pouring of the concrete floor or within a pre-prepared shuttered trench. When preparing a trench, it's important to observe the following dimensions to ensure correct reinforcement for load class rating.

Fixings

- Bolts, Adjustable Feet and Gaskets for assembly of the channel are included with each component. Outlets are also supplied complete with Foul Air Trap and Sieve

Tools required

- 13mm Hex Spanner (for feet)
- 10mm Hex Spanner / socket (for joint assembly)
- Flat Screwdriver (for Foul Air Trap)



Step 1 - Feet Assembly

- Screw the feet into the threaded nut located on the foot support. Place the M8 nut loosely on top (this will act as a lock nut later once the channel has been levelled to the correct height)



Step 2 - Outlet

- Loosely insert the Modular Channel Outlet into position. Ensure that the Outlet is sufficiently inserted and sealed into the correct position, taking care to check that the Foul Air Trap can sit in position



Step 3 - Adjust and Level

- Level the channel to the desired level using the adjustable feet.



Step 4 - Assembling the Joint

- Place the next channel loosely in position, ensure that the adjustable feet are to the correct height. Using the gasket and bolts included, carefully place the gasket in the right position and loosely place all the bolts in position.

Installation, Care & Maintenance



Step 5 - Tighten Joint

- Ensure channel position, line and level the channel before fully tightening all joints. Note: misalignment could affect the water tightness of the joint.



Step 6 - Final adjustment check

- Check the installation for level and make any small adjustment using the adjustable feet. A water test can be undertaken at this point to check fall/joints/outlet.



Step 7 - Install infill piece (Optional)

- In applications where the required load class is B125 or higher, or if required, install the infill piece into the channel edge



Step 8 - Anchor the channel down

- Prior to backfilling, secure the levelling feet to the substrate to prevent the channel from lifting or floating.



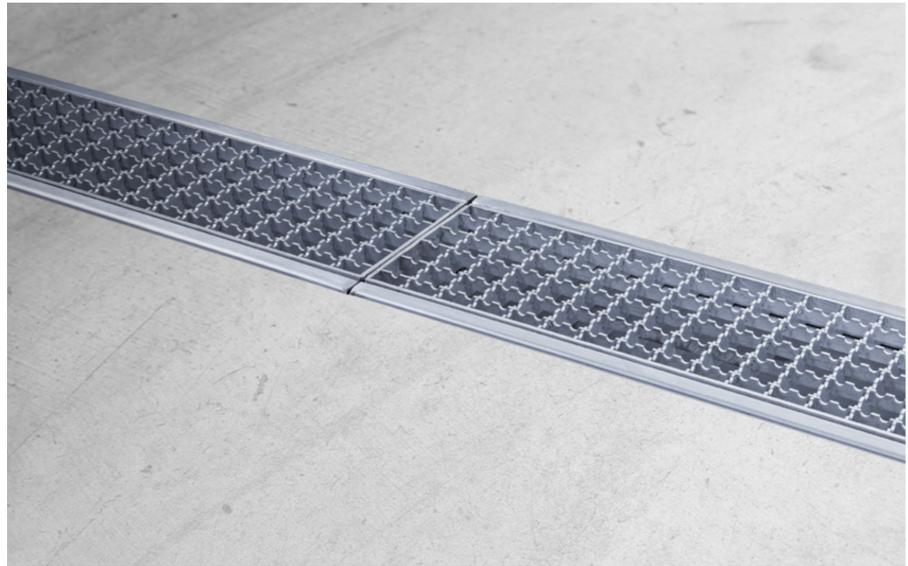
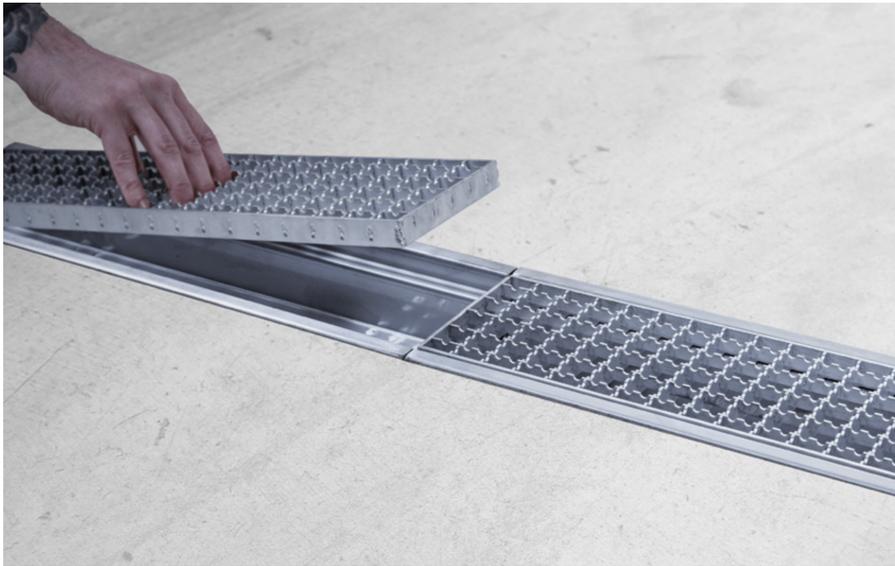
Step 9 - Install Spacers

- To prevent the channel being squeezed while backfill is being compacted, install wood spacer blocks inside the channel (where the grate sits). Do not remove the spacers until the backfill is set.



Step 10 - Backfill

- Weights can also be placed inside the channel to prevent lift during pouring. Pour backfill, ensure that the backfill completely encases the channel. Take care not to damage edge and show surfaces. Remove immediately any material which falls into the channel.



Step 11 - Install Gratings

- Check and clean the channel, remove spacer blocks and install the grating. Simply insert the grating into the seating position.

Step 12 - Final Adjustments & Clean

- Remove any debris from the channel and gratings. Ensure everything is fitted correctly. Clean the channel and gratings with soapy water and wipe dry if required.

Safety Precautions

- Before specification or purchase, the grade of stainless steel should be checked to make sure it is adequate for the application. If unsure please contact Harmer Building Drainage Technical Team.
- In areas where chemicals may be present e.g. swimming pool environments or food processing. It is recommended to use a higher grade of stainless steel. Always check prior to placing any orders and if in doubt match the grade of stainless steel of the machinery installed.

Maintenance

- The high quality grates and bezels are maintenance free but should be inspected periodically and cleaned of any trapped matter.

If drains are not used for a period of time the trap water may evaporate or become fetid. To remedy this, there is no need to remove the grate, simply reprime the Trap by pouring clean water through the drain. Never use bleach or caustic cleaning agents.

Frequency of cleaning depends upon application. Generally, clean the metal when it is dirty in order to restore its original appearance. This may be once a day for a drain in hygienic or aggressive situations.

Cleaning after Installation

- To clean Stainless Steel grates, use only soapy water and wipe dry. Under no circumstances use metal scouring pads, metal scrapers or wire wool since this will contaminate surfaces leaving rust spots.

Cleaning Methods

- Harmer Modular 135 channels could not be simpler to clean. To maintain the aesthetic appearance of the system wash with soapy water and wipe dry. Under no circumstances should bleach or caustic cleaning agents be used.

Design & Specification

*Information and data to
help your design process,
from start to finish.*





In collaboration with NBS Source, Alumasc products are listed on the NBS library to allow architects and specifiers quick and easy access to the correct product specification and respective clauses. The table below lists applicable clauses for each of the Harmer products; some products fall into one or more category and will vary by application. Typical clauses are listed below; for specific advice and guidance on specification clauses, please contact the Harmer Building Drainage technical team on 01536 383810.

Product Range	Classification	Uniclass		CAWS	
		Uniclass Code	Title	CAWS Code	Title
Stainless Steel Channel	Primary	Pr_65_52_24_24	Drainage channels with gratings	Q10/35	Drainage channel systems with gratings
	Additional			Q10/180	Drainage channel systems with gratings

Modular 135 NBS Specification Example

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): ±38mm water gauge

Water seal retained in traps (minimum): 25mm

Manufacturer: Alumasc Water Management Solutions, Station Road, Burton Latimer, Kettering, Northants NN15 5JP. 01536 383810.

Email: info@alumascwms.co.uk

Product reference: Use product name and product code e.g., Harmer Modular 135, M135

Material/grade: Austenitic Grade 304/Grade 316 Stainless steel

Size/Profile: Standard sizes and profiles 50mm, 75mm, 100mm depth

Width: 135mm grating

Accessories: Removable bottle trap/sediment sieve/filter bucket/adjustable feet/foam gasket

Grating Type: Heelproof/Ladder/Mesh Anti-Slip/Perforated

Load Class: A15/B125/C250

Method of jointing: Bolted flange joint with gasket

Scan to visit our company page on NBS Source



Other Drainage Products

For detailed information on the below systems, please contact Harmer Technical Services or visit the Harmer Drainage website.



Harmer SML Above and Below Ground Soil and Waste Systems

Harmer SML Above-Ground is a lightweight, dry-jointed cast iron soil and waste system that is Agrément certified and fully compliant with BS EN 877. This high performance pipework system combines an excellent fire classification with the latest acoustic performance requirements for building materials. Harmer SML has a proven track record of use over the lifetime of the building and is manufactured using 95% recycled material.

The SML Below-Ground system is a similarly high performing pipework system eminently suitable for below ground conditions and is fully compatible with the SML Above-Ground system.

The Harmer SML systems consist of coated, socketless cast iron pipes and fittings simply joined with either ductile iron or stainless steel rubber-lined couplings, allowing ease of installation. The range also includes bracketry for restraining the pipework vertically and supporting it horizontally, along with a choice of special connectors for linking with other materials.

Key Features

- Meets European Standard BS EN 877
- Excellent noise attenuation
- Non-combustible
- High tensile strength
- Choice of ductile or stainless steel couplings
- CE Mark conformity and Kitemark Accreditation
- Secure socket-less fixing between pipe and fitting
- Quick to assemble, low maintenance and 100% recyclable



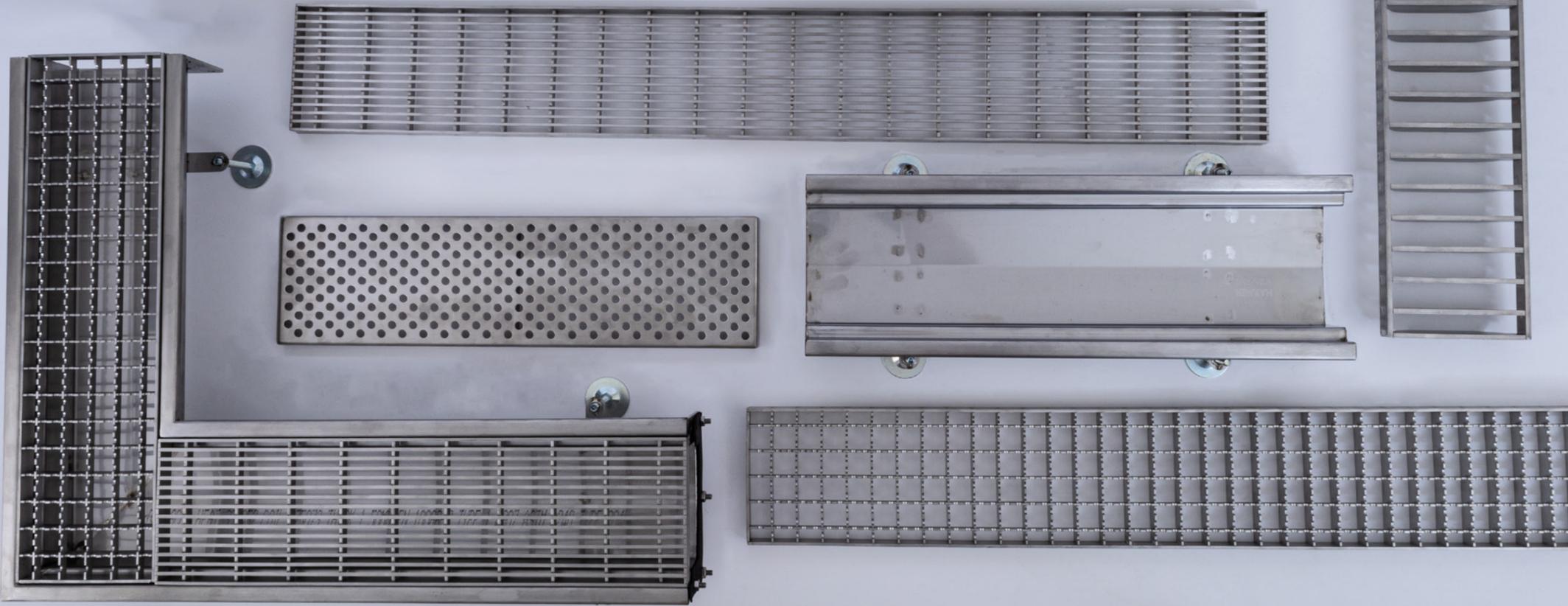
Harmer Floor and Shower Drains

Drain bodies in cast iron, stainless steel and polyester powder coated aluminium, together with elegant grates, combine to create a range of floor and shower drains to suit virtually any interior drainage application and all types of flooring. Stainless steel linear drainage components add to the range.

Harmer Floor and Shower Drains show marked advances in design sophistication and performance. With minimum complexity, they are versatile and efficient. Straightforward installation methods mean Harmer Floor and Shower Drains are synonymous with speed and cost effectiveness in any application.

Finely engineered manufacture and enhanced features bring many benefits, including corrosion resistance and durability, with smooth and attractive finishes that are tough and hygienic. Harmer Floor and Shower Drains are available either trapped or untrapped. The range of grates includes stainless steel and nickel bronze, available in a choice of attractive finishes.





Sustainable channels for a greener future

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