



MUFLE[®]

WATER DRAINAGE SYSTEMS

4ALL H50

Brochure **2023**

The Next Generation of plastic drainage systems

4ALL H50

The Next Generation

Versatile. Practical. Easy to assemble.

Drainage systems are becoming more and more important also in private spaces and **4ALL H50** channel offers a drainage solution for every situation and requirement.

This innovative channel is suitable for drainage in areas such as terraces and balconies where the installation height is limited. This is possible thanks to its low height and new technical details, such as the new side connections which make it easy to install.

4ALL H50 is available in a wide range of standard and design gratings perfectly integrated to the aesthetics of the surrounding environment.





Main features

- Certified in accordance to EN1433
- Easy to assemble
- High mechanical and chemical resistance
- Light weight
- Easy to carry
- Total height 50mm
- Plastic rail 5mm thickness
- 3 standard gratings
- 4 design gratings
- Load class: A15, B125

Applications

- Terraces
- Balconies
- Gardens
- Façade drainage
- Residential developments
- Low height installation
- Renovation



4ALL H50, The Innovative Design

A **complete system** with many advantages and possibilities

- 1 VERTICAL OUTLET ADAPTER installed with one “turn and click”
- 2 CLOSED END CAP
- 3 OPEN END CAP Ø32, can be installed in 5 different positions, lateral or head position.



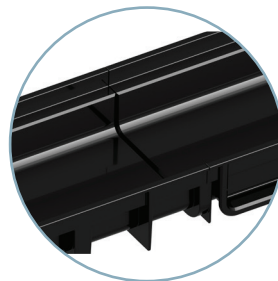
- 4 4 SIDE CONNECTIONS make it easy to install “L” or “T” shape drainage solutions
- 5 GRATINGS in different materials and design Load class A15 and B125
- 6 PLASTIC RAIL 5mm traffic exposure in accordance to DIN 19580
- 7 SEALING JOINT, it is possible to connect the two channel and seal male/female connection, plus additional sealing for yearly maintenance

Innovative features for an easy installation

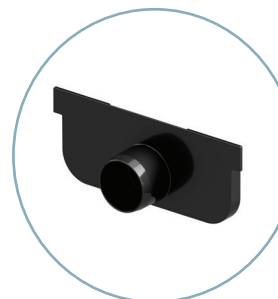
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4ALL H50 Advantages

- The new connections allow to create T and L shape without using special pieces and without discontinuity for the drainage line
- Practical to be assembled, male and female and sealing joint in the dedicated area
- Accessories that can be used in different positions and can be used to add drainage capacity
- The low height of the channel, only 50mm total



SEALING JOINT: the connection of the two channel creates an area that can be used to position the sealant. The bituminous sealant can guarantee a perfect waterproofing of the drainage line.



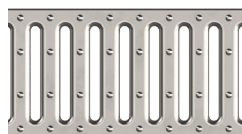
OPEN END CAP can be installed in 5 different positions and it can be used in case of necessity to increase the capacity of drainage of water outflow.

Standard gratings with classic but sophisticated details



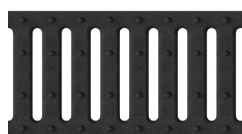
1. Ductile iron standard grating 6mm slot

One ductile iron grating. The robust material and slot positioning design have been quality features for years. The cast iron grating is particularly suitable for areas subjected to car traffic, for example in front of a garage.



2. Galvanized or stainless steel standard grating 8mm slot

The galvanized steel grating is well known in the market. The grating is distinguished by its simplicity and functionality. In addition, the high quality can assure an extremely durable solution.



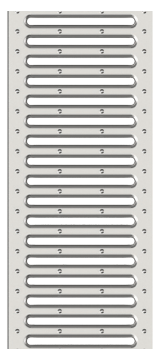
3. PP/PE standard grating 8mm slot

The PP/PE grating is lightweight and has a great chemical resistance. Completely recyclable and durable. It is resistant to water, saline solution, alcohol and does not absorb liquids.

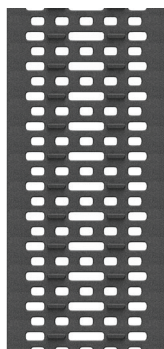
Design gratings to meet your aesthetics

Customer is more and more attractive to the design of the surrounding and he needs to include drainage channel as an architectural design element, especially in his own home, garden or terrace.

4ALL H50 and the new design gratings can be assembled in harmony with their surrounding areas. Now the drainage channel is no longer just water conveying system but it can increase the beauty of the areas maintaining its technical efficiency.



SLIM Grating
Galvanized and
Stainless steel



PP-GF grating



Ductile Iron
grating



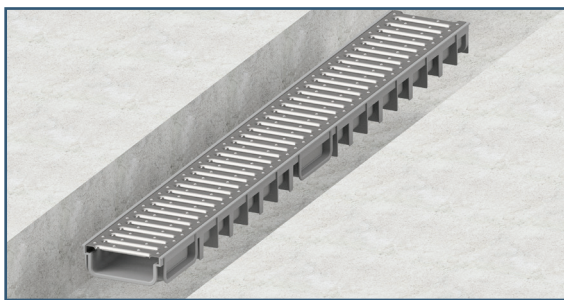
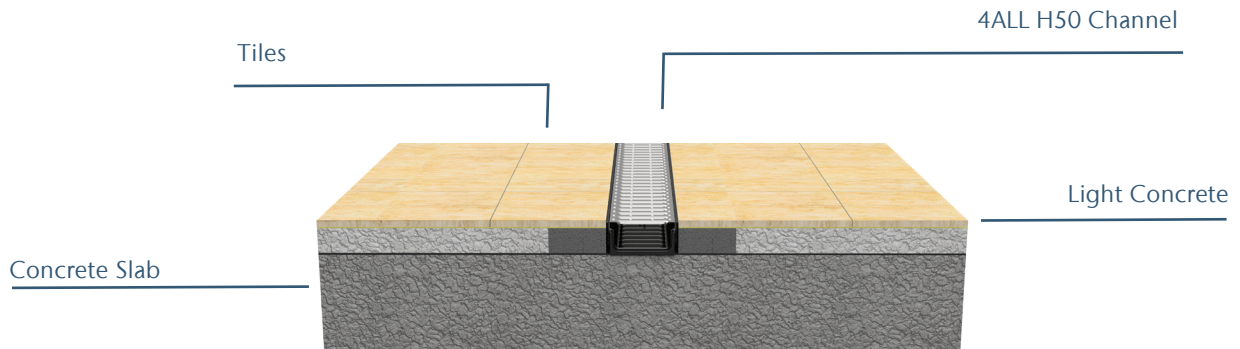
Slot grating

New design grat-

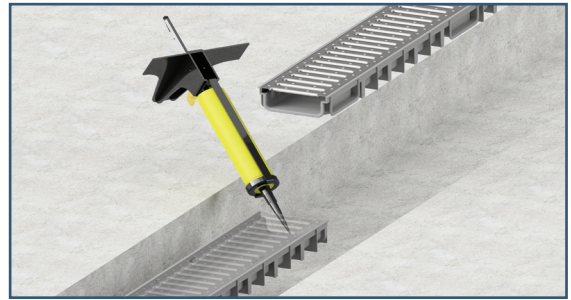
- 4 design gratings in different materials
- Gratings load class: A15, B125

4ALL H50, Installation

How to install the drainage channel correctly



1. Place the channel with the installed grating inside the trench.
It is suitable to protect the grating with a PVC film during the installation, to avoid any concrete residues.

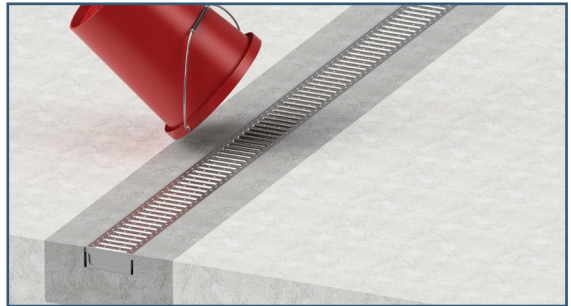


2. Apply the sealant on the of the connection area (male/female) and installed the channels.
Verify that the drainage line respect all the relatives quotes.

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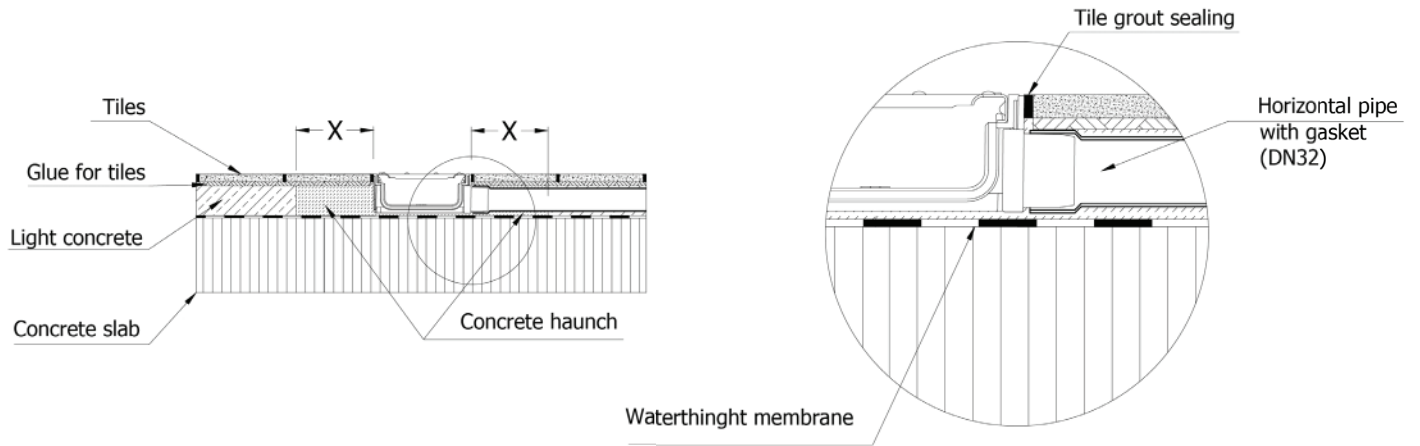
3. Create your drainage line and put the end caps.
If necessary open the side connections and use pipes.



4. Finally put the concrete in order to completely fill and close all the space left free between the channels and the trench.

...Easy installation for a perfect result

Example: Installation on concrete slab with horizontal outlet

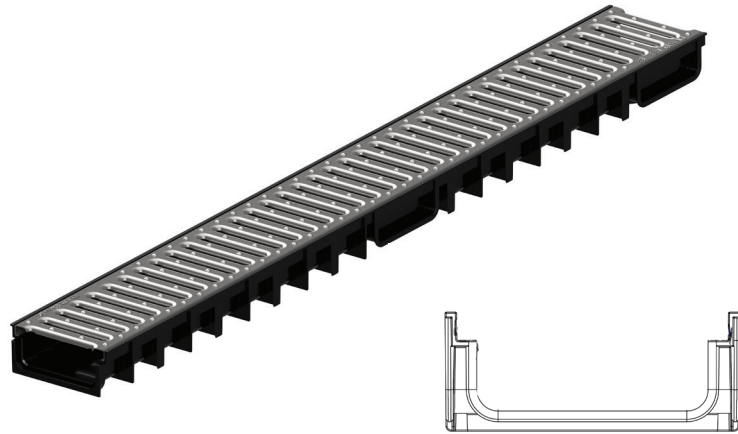


Load Class	(ref. EN 1433)	A 15	B 125	C 250	D 400	E 600	F 900
Quality for Bedding & Haunch Concrete (Min)	(ref. EN 206-1)	C20/25	On request				
Quality for Bedding & Haunch Concrete (Min) in area with frost cycle		C30/37 XF40	On request				
Bedding Dimensions (Min)	X (Cm)	10	On request				
	Y (Cm)	Height of the channel					
	Z (Cm)	10	On request				

4ALL H50, Black

Product information

- Plastic Channel
- 4 side connections each channel
- Plastic rail 5mm thickness
- Gratings load classes A15, B125
- Built-in fixing system
- Available in Black and Grey color



4ALL H50 Black with grating

Grating Type	Load Class	Slot [mm]	Dimensions			Pc/Pal [n.]	Artic. Num.
			Length [mm]	Width [mm]	Height [mm]		
,PP-PE	A 15	8	1000	125	50	198	845064
Galvanized steel	A 15	8	1000	125	50	198	845065
Stainless steel	A 15	8	1000	125	50	198	845067
Ductile iron 6mm slot	B125	6	1000	125	50	198	845069
DESIGN GRATING Galvanized steel SLIM	A 15	8	1000	125	50	198	845066
DESIGN GRATING Stainless steel SLIM	A 15	8	1000	125	50	198	845068

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4ALL H50 Black Kit

Description	Pc/Box [n.]	Artic. Num.
ø110 vertical outlet + num.2 ø32 end cap outlet + num.1 closing end cap	50	845001
ø32 end cap outlet + num.1 closing end cap	100	845002

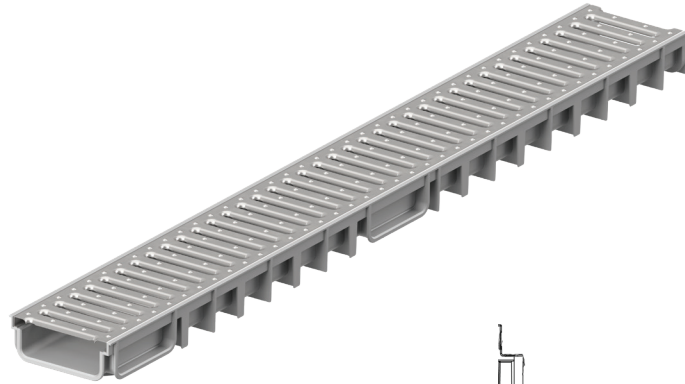
4ALL H50 Black Accessories

Description	Pc/Box [n.]	Artic. Num.
ø110 vertical outlet	100	845005
ø32 end cap outlet	100	845006
Closing end cap	100	845007

4ALL H50, Grey

Product information

- Plastic Channel
- 4 side connections each channel
- Plastic rail 5mm thickness
- Gratings load classes A15, B125
- Built-in fixing system
- Available in Black and Grey color



4ALL H50 Grey with grating

Grating Type	Load Class	Slot [mm]	Dimensions			Pc/Pal [n.]	Artic. Num.
			Length [mm]	Width [mm]	Height [mm]		
PP-PE	A 15	8	1000	125	50	198	845071
Galvanized steel	A 15	8	1000	125	50	198	845072
Stainless steel	A 15	8	1000	125	50	198	845074
Ductile iron 6mm slot	B125	6	1000	125	50	198	845076
DESIGN GRATING Galvanized steel SLIM	A 15	8	1000	125	50	198	845073
DESIGN GRATING Stainless steel SLIM	A 15	8	1000	125	50	198	845075

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4ALL H50 Grey Kit

Description	Pc/Box [n.]	Artic. Num.
ø110 vertical outlet + num.2 ø32 end cap outlet + num.1 closing end cap	50	845003
ø32 end cap outlet + num.1 closing end cap	100	845004

4ALL H90 Grey Accessories

Description	Pc/Box [n.]	Artic. Num.
ø110 vertical outlet	100	845008
ø32 end cap outlet	100	845009
Closing end cap	100	845010

4ALL H50 Pack **NEW**

4 meters drainage system: 4 plastic channels, 4 gratings, 2 open end caps and 1 closed end cap

1. Front side

General Information

Name of the product,
4 meters drainage system,



Application

Terraces, Gardens, Balconies,
Low height installation

4ALL H50

What's inside?

2. Back side

Technical Information

Dimension of the channel

Available gratings

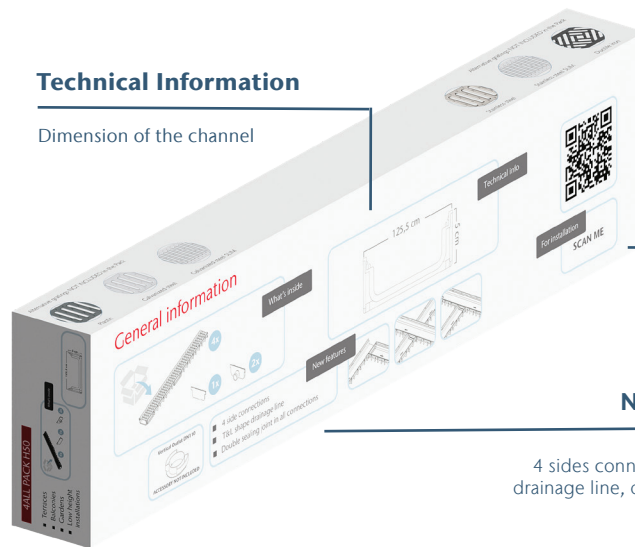
Range of gratings

Installation Instruction

SCAN the QR Code

General Information

What's inside?



New Features

4 sides connections, T&L shape
drainage line, double sealing joint
in all connections

4ALL H50 is a versatile, practical and easy to use channel, even to install by yourself. It is simple to use it thanks to the NEW PACK where it is included all the necessary to create the drainage line. The pack is compact, easy to carry and it allows to see and touch the products inside.

...Perfect solution for your drainage line

4ALL H50 Pack **NEW**

Product information

- The pack contains:
 - 4 plastic channels, 4 gratings, 2 open end caps, 1 closed end cap
- 4 side connections each channel
- Plastic rail 5mm thickness
- Gratings load class: A 15, B 125
- Built-in fixing system
- Available in Black and Grey color



4ALL H50 Pack Black

Grating Type	Load Class	Slot	Dimensions			Pc/Pal	Artic. Num.
			Length	Width	Height		
		[mm]	[mm]	[mm]	[mm]	[n.]	
PP-PE	A 15	8	1000	125	50	33	845100
Galvanized steel	A 15	8	1000	125	50	33	845101
Stainless steel	A 15	8	1000	125	50	33	845103
Ductile iron 6mm slot	B125	6	1000	125	50	33	845105
DESIGN GRATING Galvanized steel SLIM	A 15	8	1000	125	50	33	845102
DESIGN GRATING Stainless steel SLIM	A 15	8	1000	125	50	33	845104

4ALL H50 Pack Grey

Grating Type	Load Class	Slot	Dimensions			Pc/Pal	Artic. Num.
			Length	Width	Height		
		[mm]	[mm]	[mm]	[mm]	[n.]	
PP-PE	A 15	8	1000	125	50	33	845200
Galvanized steel	A 15	8	1000	125	50	33	845201
Stainless steel	A 15	8	1000	125	50	33	845203
Ductile iron 6mm slot	B125	6	1000	125	50	33	845205
DESIGN GRATING Galvanized steel SLIM	A 15	8	1000	125	50	33	845202
DESIGN GRATING Stainless steel SLIM	A 15	8	1000	125	50	33	845204