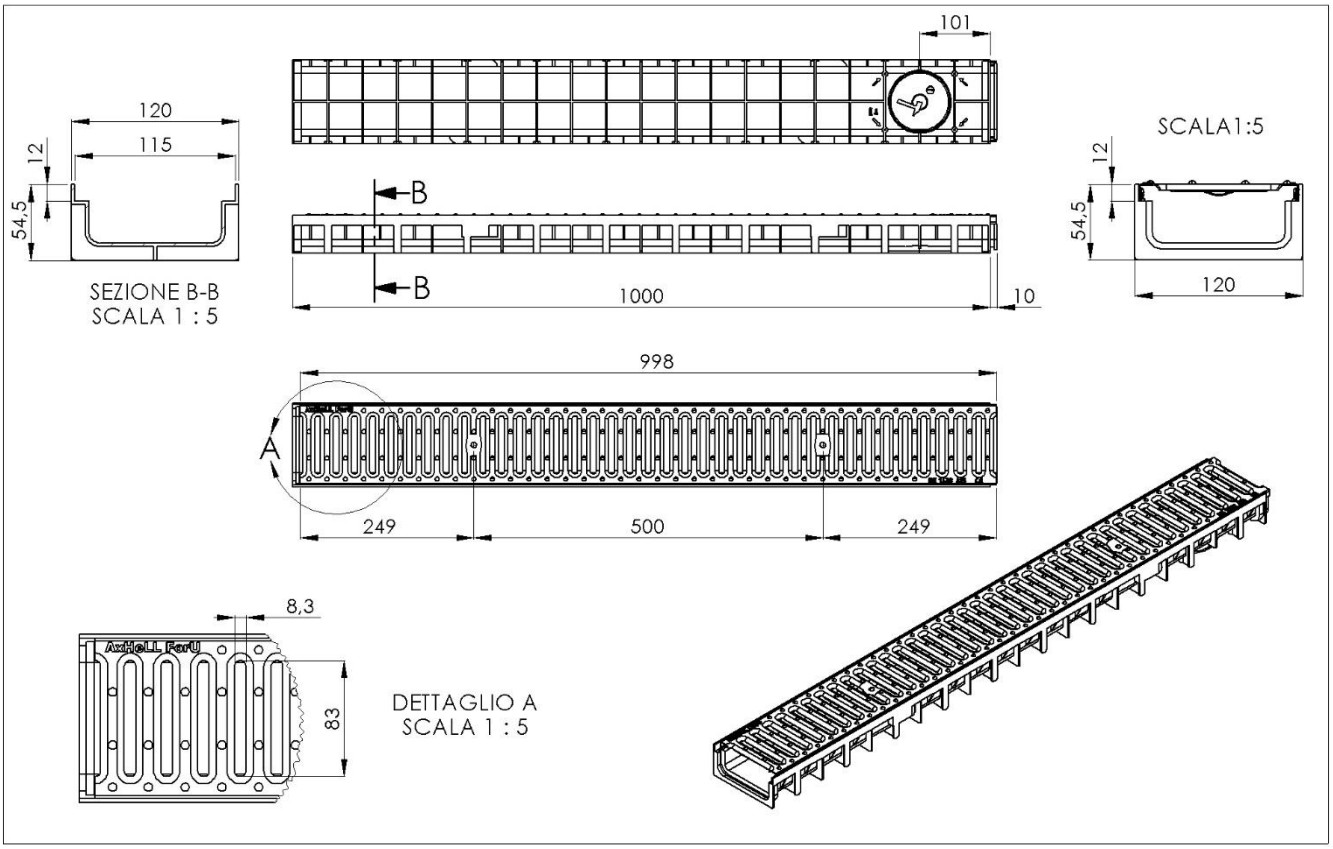
ForU H30 Technical data sheet



Dimensions and characteristics	ForU 30 + Slotted grating
System	Channel ForU H30 with Slotted Grating in Galvanized Steel A15/EN 1433
Length (mm)	1000
Width (mm)	120
Grating Width (mm)	115
Height (mm)	54,5
Material	PP // Galvanized steel
Weight (Kg)	1,6
Draining surface (dm^2)	2,35
Surface finishing	PP // Galvanisation
Class of Load (UNI EN 1433)	A15 (UNI EN 1433)
Outlets	1x Ø 110

Axhell Drain Srl reserves the right to vary the above mentioned technical features without notice. The dimensions and weights are subject to the standard tolerance of production. The products have to be installed according to Axhell's specifications and Standard in force..

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Application field:
Pedestrian area
Domestic and civil areas
Sport and leasure
Terrace and balconies
Residencial area with small space for layng

Specifications:
Supply and installation of rainwater drainage system of ForU Axhell type consisting of 2 elements:
1. Supply and installation of rainwater drainage system of ForU Axhell type with external stiffening ribs and slotted grating in Galvanized steel, male-female coupling system allowing the assembly between one channel and the next with the relevant pre-assembled gratings. The channel will have 1 pre-determined points on the bottom, through 4 screws, to house a EPDM drain gate (diameter 110 mm). PP upper profile with height not smaller than 12 mm. The channel surface will be perfectly smooth and have a low roughness coefficient to allow the best water flow. Il will also be perfectly water-tight and devoid of any connection points with the outside. The channel will have 2 protrusions on each side of internal walls of the upper profile in order to ensure the gratings can be locked in place. The channel will have the following dimensions: length 1,000 mm, internal net gap 100 mm, internal height 30 mm.
2. Supply and installation of galvanised steel slotted covering gratings for ForU Axhell drainage channels with bar fixing system or locking protrusion , load class A15 according to EN 1433-2008, length 998 mm, width 120 mm. A similar grating will be available upon request with length 498 mm.
3. Supply and installation of fining system with bar in PP for ForU Axhell drainage channels with interlocking coupling system in the appropriate seat of the channel and suitable screws for tightening through the appropriate hole provided in the grating. The system is equipped with elements of variable thickness to allow the correct tightening of the screw with grating of different materials.
4. Supply and installation of HD-PE end caps for ForU Axhell drainage channels with coupling system into the special channel housing.
5. Supply and installation ForU Axhell type PP drain box siphonable for ForU Axhell drainage channels, with external stiffening ribs and male- female coupling system. The top of the built-in siphon in the drain box shall be detachable in order to allow the cleaning and anti-odor system consisting of a mobile strip. The drain box will have 1 preformed outlets on the bottom with diameter until 110 mm. The sizes of the drain box shall be length 120 mm, internal net gap 100 mm, internal height 30 mm.
The surface exposed to traffic must have a grating, in class A15 according to EN1433-2008 and must be equipped with all the markings required by the EN 1433-2008 standard and the CE mark.

Installation:

Step 1

Establish the exact lay out that the draining line will have to follow.

Step 2

Work out the trench sizes.
Taking into consideration: the channel sizes (width x height); the thickness for the concrete bed on which the channel will lay (pay attention to the calculation considering also the eventual height for the space of the bottom outlet, when it is required).

Step 3

Proceed with the concrete cast for creating the laying bed and wait that the concrete has reached the right consistency (one hour at least).
The trench should be 100 mm higher than the channel height for the concrete laying bed and 200 mm wider than the channel width for the side flankings. The concrete should be obtain to mix three parts of sand, one of cement and half a part of water (water/ cement ratio=0,5); the gravel will be with a maximum diameter of 15 mm, in this way to the concrete will be rather "fluid".
(remember to leave the space of the bottom outlet, when it is required).

AXHELL

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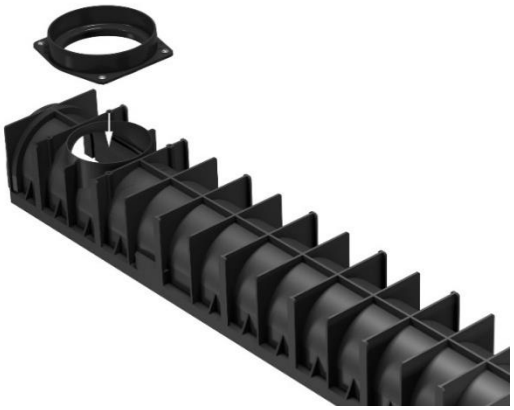
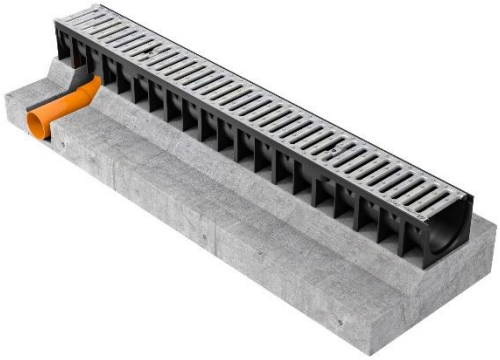
Step 4

To drain the water, you can use the bottom outlet:
Break the outlet in the special seat with a hammer



Insert the outlet in the channel fixing it with the four screws supplied.

Step 5



Lay the channel on the laying bed.
Link up the drainage pipes to the sewerage.

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Step 6

If the draining line requires more than one channel, connect the channels by the coupling system “male- female”
The channels inside the packaging are equipped with the gratings already fixed through a special system of protrusions in the channel itself. The special coupling system “male-female” allows the channels connection without disassembling the gratings.

Step 7

Before doing the flanking, insert the end caps.

Step 8

Create the flanking.

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Step 9

Level out the channels
Be careful to leave enough space without flanking, when a final covering (tiles, blockpaving, etc...) is necessary.

Step 10

Coat with the final covering
The area will be practicable not before 72 hours.

Note
a) The height of the surface layer must exceed the edge of the grating by approximately 3 mm.
b) In case of concrete flooring, to absorb the horizontal expansion forces, it is advisable provide expansion joints in both directions.
c) we recommend using Class S4 concrete (EN 206-1) and stone aggregate with maximum diameter 8 mm.

SUMMARY TABLE				
Load class (EN 1433)		A 15	B 125	C 250
Applicable load (EN 1433)	kN	15	125	250
Minimum height H of concrete laying bed	mm	100	100	150
Minimum thickness S of the concrete fl anking	mm	100	100	150
Concrete compression strength class (EN 206-1)		C 20/25	C 25/30	C 25/30
Class of concrete compression resistence (EN 206-1) in case of concrete exposed to freeze / thaw cycles.		C 30/37 XF4	C 30/37 XF4	C 30/37 XF4

The installation instructions and the relative example drawings are provided as an indication and do not take into account any specific characteristics of the place of installation, the particularities of the ground, the morphology and the position of any slopes. For particular installation methods, the indications must be provided by the technician in charge.

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