

UCan
technical data sheet

Why

UCan

BE CLEVER

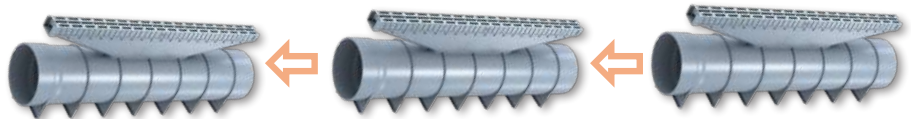
1 Minimal



2 The most innovative system



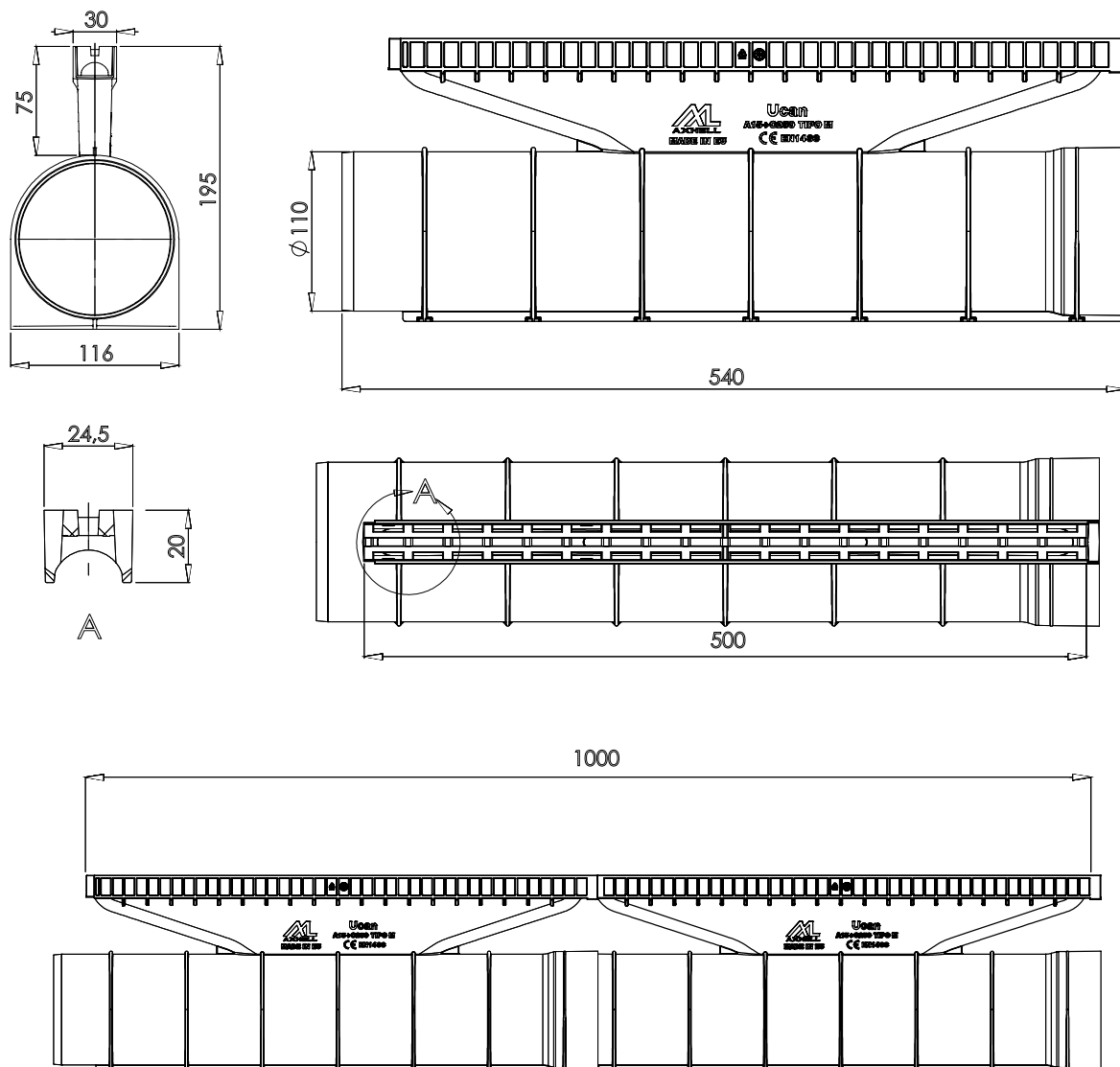
3 Quick and safe



4 Light but strong



technical data sheet



Dimensions and characteristics	UCan + Mesh Grating PP
System	Captation element // PP Grating
Length (mm)	540
Total width (mm)	116
Surface width (mm)	30
Grating width (mm)	24,5
Height (mm)	195
Material	PP // PP
Weight (Kg)	0,7
Flow rate l/s (80% filling, minimum slope 0,1%)	2,1
Surface finishing	PP
Class of load (UNI EN 1433)	C250 (UNI EN 1433)
Discharge slot (mm)	15,8 x 154

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.

application field

Pedestrian area
Domestic and civil areas
Sport and leisure
Parking areas
Parking decks areas with low-load transit
Industrial, commercial and artisan areas
Car washes

specification

Supply and installation of rainwater and surface run-off water capturing and drainage system of **UCan Axhell** consisting of 2 elements:

1 - Supply and installation of rainwater drainage system of UCan Axhell type with external stiffening ribs and mesh grating in PP, male-female coupling system allowing the assembly between one collection element and the next with the relevant pre-assembled gratings. The system will have a pipe shape with external diameter not less than 110 mm equipped with support feet suitable for positioning on the excavation bottom, elements anti-floating and upper part consisting of a collection element inverted truncated cone shaped, surface opening not less than 30 mm to accommodate the grating suitable for the liquids entrance, outlet with drain slot 15.8 x 154 mm suitable for flow between cone and tube. PP upper profile with height not smaller than 20 mm in order to ensure the gratings can be enclosed in place. The collection element surface will be perfectly smooth and have a low roughness coefficient to allow the best water flow. It will also be perfectly water-tight and devoid of any connection points with the outside. The collection element will have the following dimensions: length 540 mm, internal net gap diameter 110 mm, external height 195 mm. Surface width 30, total width 116 mm.

2 - Supply and installation of PP mesh covering gratings for UCan Axhell drainage system, load class C250 according to EN 1433-2008, length 498 mm, width 24,5 mm. The surface exposed to the traffic will show a grating, class C250 following standard EN1433-2008 and will be provided with all the markings following standard EN1433-2008 and marking CE.



installation A



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



Work out the trench sizes.

Taking into consideration the collection element sizes (width x height) and the thickness for the concrete bed on which the element will lay.



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 higher than the collection element height for the concrete laying bed and wider than the collection element width for the side flankings in order to respects the norm UNI EN 1433 based on the required class of load. 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".



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



If the draining line requires more than one, insert the elements connecting one to the other with the special male-female interlocking system and make sure they are aligned.

The particular male-female coupling system allows coupling the elements without disassembling the gratings.



Level out the collection element

Be sure to prevent material from falling into the cone. The flanking operation must be done in consecutive layers to avoid floating of the pipe. Be careful to leave enough space without flanking, when a final covering (tiles, blockpaving, etc...) is necessary.



Coat with the final covering.

The area will be practicable not before 72 hours.

installation B

1



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

2



Proceed with the concrete cast for creating the laying bed.

The layer must have height, width and lateral support according to the indications of the EN 1433 standard based on the required load class. Pay attention to level the height foreseen for the final covering.

3



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

4



If the draining line requires more than one, insert the elements connecting one to the other with the specific male-female interlocking system and make sure they are aligned.

The particular male-female coupling system allows coupling the elements without disassembling the gratings.



5



Level out the collection element.

Be sure to prevent material from falling into the cone. The flanking operation must be done in consecutive layers to avoid floating of the pipe. Be careful to leave enough space without flanking, when a final covering (tiles, blockpaving, etc...) is necessary.



6

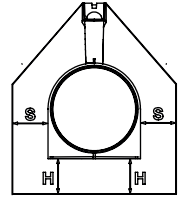


Coat with the final covering

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 (UNI EN 1433)		A 15	B 125	C 250
Applicable load (UNI EN 1433)	KN	15	125	250
Minimum height H of concrete laying bed	mm	100	100	150
Minimum thickness S of concrete flanking	mm	100	100	150
Concrete compression strenght class (EN 206-1)		C 20/25	C 25/30	C 25/30
Class of concrete compression resistance (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.

packaging

Packaging	Tripack UCan
Item	3 linear meters UCan + Mesh Grating PP
Code	507001
Packaging dimensions	300 x 400 x H 550
Weight (Kg)	4,5
Quantity per pallet (number of package)	16
Linear meters per pallet	48
Pallet dimensions	800 x 1200 x H 1200



3 linear meters



48 linear meters

Packaging	UCan + Mesh Grating PP
Item	0,5 linear meter UCan + assembled mesh grating PP
Code	503001
Packaging dimensions	600 x 600 x H 550
Weight (Kg)	17,5
Quantity per pallet (number of package)	4
Linear meters per pallet	50
Pallet dimensions	800 x 1200 x H 1200



50 linear meters



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