

Alca PLAST®

Outdoor drainage system



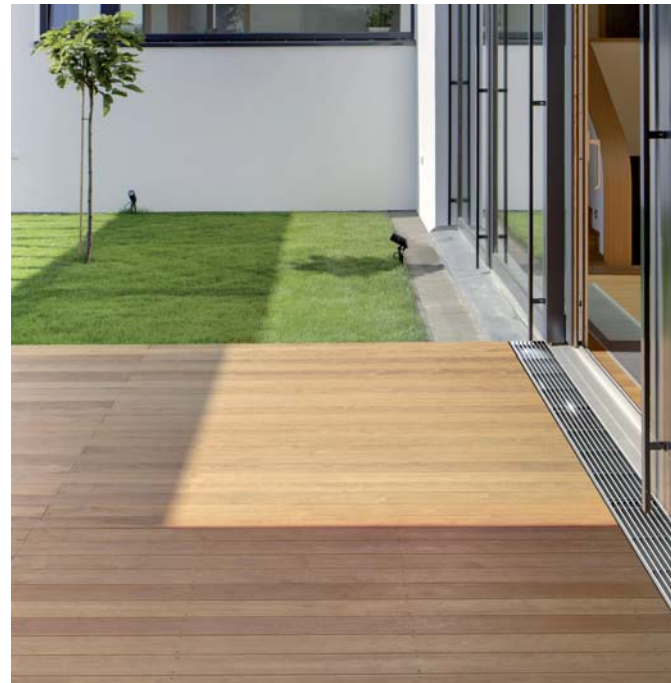
Content



4-11

OUTDOOR DRAIN CHANNELS

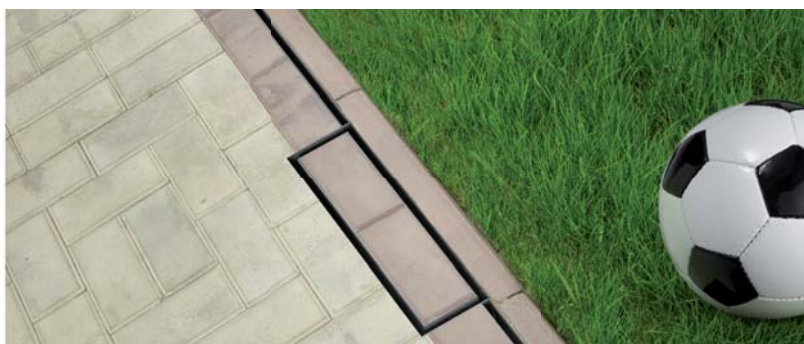
Due to its unique characteristics it offers maximum variability as well as good load capacity and durability.



16-19

DRAINAGE CHANNELS

It is used for surface drainage around buildings and protection against moisture and washout.



12-15

SLOTTED DRAINS

Slotted outdoor drainage is especially suitable for office and residential buildings with high demands on design.



News



Extended warranty – applies when installed by a certified plumber



Load class



UV-resistant material



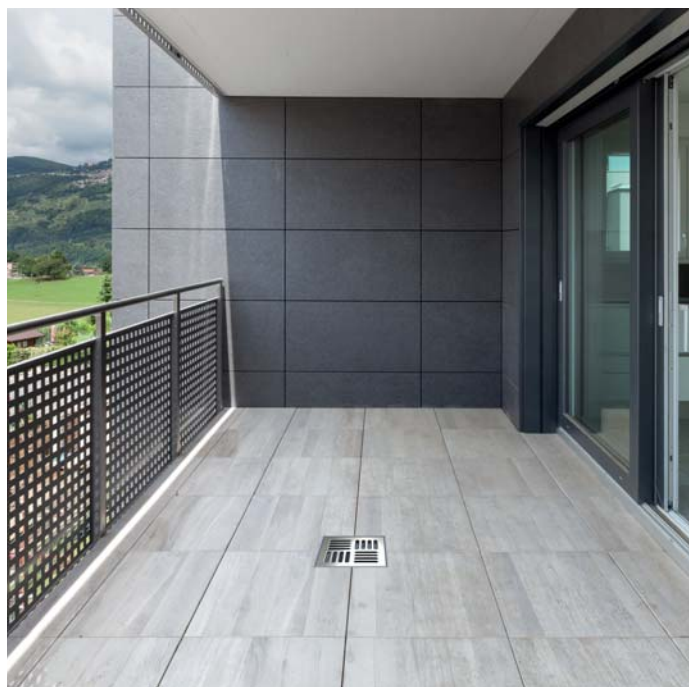
Heat-resistant material



Frost-resistant material

LET'S MAKE IT SIMPLE

We have prepared a QR code for each product for your convenience. To read the QR codes just download the application to your smart phone or tablet. Then scan the code to quickly reach the desired section of our website. Here you will find detailed descriptions and parameters of the selected product. No more trouble with searching for information. A smart way to get your information quickly and easily.



22–23

FLOOR DRAINS

They serve for point drainage of outdoor areas and technical rooms.

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A15



B125



C250



D400



OUTDOOR DRAIN CHANNELS AND DRAIN BOXES

They represent a sophisticated outdoor drainage system with innovative profiling of the drain channel body, which ensures easy installation, high durability and load up to 40 tons.

6
YEAR GUARANTEE

OUTDOOR DRAIN CHANNELS AND DRAIN BOXES

Modular system

The modular system allows simple modification of the drain channel from the side, front or bottom directions (Modules "I", "L", "T" and "X"). One of the greatest advantages is the variable waste connect-ability from the bottom and side. Connections between single drains are fastened by locks which make the installation easy for everybody. The modular system is a modern and innovative way of installation.

Warranty 6 years

Material of the drain and grid, technological procedures, periodic stress testing and quality control of production within the ISO 9001:2015 system allow to provide a six-year warranty. A list of certified plumbers for extended warranty can be found on the website www.alcaplast.cz.

Fast assembly

The bodies of the Alcaplast outdoor drain channels are made of polypropylene. Injection molding allows us to have pre-prepared connection slots on the body of the drain that can be easily hammered out to connect utilities via these slots. For a reliable connection of the outdoor drain channel to the waste pipe you can use our accessory kit (see page 27). The stability and rigidity of the drains in the subsoil can be increased by installing threaded steel rods in the prepared lower parts of the drains. Application of ALCAPLAST drains significantly reduces installation time, expertise needed and financial costs.

Innovative material

Our outdoor drain body in comparison to the polymer concrete alternative is noticeably lighter and after installation into the concrete ALCAPLAST outdoor drains are also comparatively rigid. Low weight reduces the financial costs of transport and increases its efficiency. Handling on the construction site is not

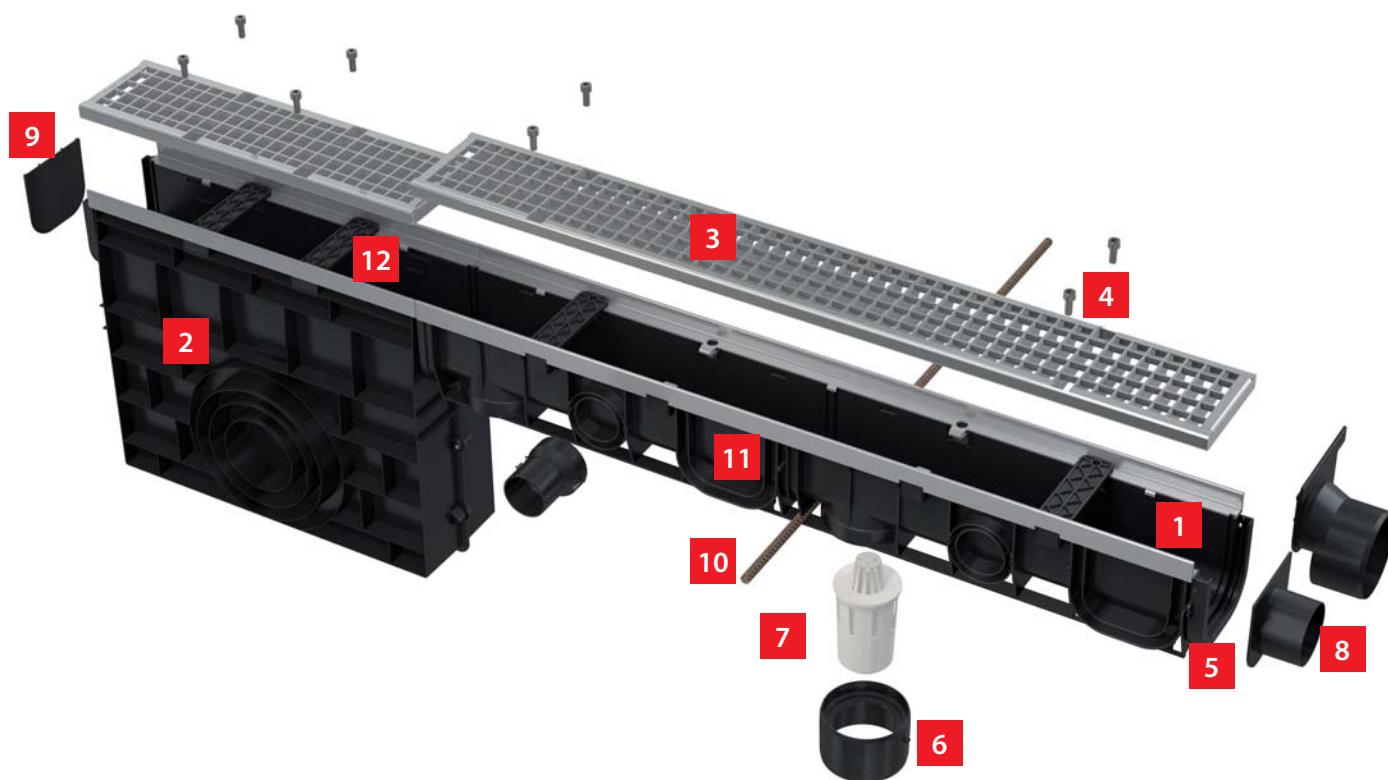
physically demanding even without usage of mechanization. The material used is reinforced by adding talc – for it's hardness but not fragility, this allows for drilling into the body without damaging the whole drain.

Drain box function:

- it provides access to the outdoor drainage system for maintenance and cleaning (to ensure sufficient flow)
- helps capture dirt and sand
- it allows connection to waste pipes DN110, DN160 and DN200


For each type of outdoor drainage channel we offer an adequate drain box, which is fully compatible with the relevant shape of the drainage body. The drain box is simply connected during installation to the drain with the help of the snap mechanism without using any tools. Thorough service is essential for maintaining long-term outdoor high flow rates for our outdoor drainage system.

TECHNICAL SOLUTION OF ALCAPLAST OUTDOOR DRAIN CHANNELS AND DRAIN BOXES



1	Drain channel body	5	Locking mechanism	9	End cap to cover the inlet
2	Drain box	6	Socket for connection to waste pipe	10	Holes for inserting the locking rods
3	Grid	7	Odour trap	11	Cutting in half
4	Fixing the grid	8	Adapter for connecting side inlet DN50	12	Installation spacers

Definition of specified load classes according to EN 1433

	Class A15 (15 kN specified load)	Transportation areas used by pedestrians and cyclists. Further areas of similar types, e.g. parks.
	Class B125 (125 kN specified load)	Sidewalks, pedestrian zones and similar areas. Parking exclusively for passenger cars and car parks.
	Class C250 (250 kN specified load)	Sides of the road and adjacent sidewalks. Pedestrian zone, professional car parks for passenger cars.
	Class D400 (400 kN specified load)	Roads and highways. Parking and similarly used areas.

ALCAPLAST load categories

HOME, HOME+

STANDARD

PROFI

TOP

↓
A15



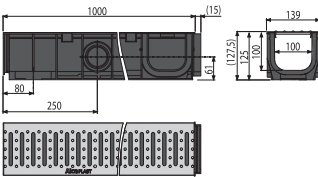
HOME
Basic load class 1,500 kg suitable for drainage of private lands, areas for pedestrians and cyclists, sports fields, lawns and other green spaces.

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OUTDOOR DRAINS AND DRAIN BOXES HOME

AVZ101-R101

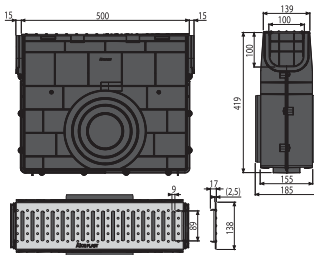
Outdoor drain channel 100 mm without frame with galvanized "T" profile grid A15



AVZ101R-R101S

N

Outdoor drain box for AVZ101 without frame with galvanized "T" profile grid A15



Installation manual for outdoor drain channels ALCAPLAST



Installation instructions can be found here

Enter in your web browser address <https://www.alcaplast.com/en/podpora-a-servis/video> or scan the QR code using a smartphone.



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HOME+
Basic load class 1,500 kg amended by an innovative locking system SAFE, suitable for drainage of office buildings, pavements, pedestrian zones, squares, sport fields, terraces and gardens.

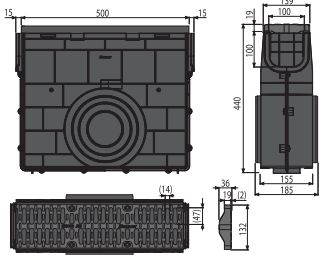
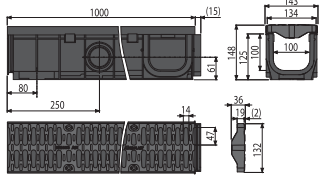
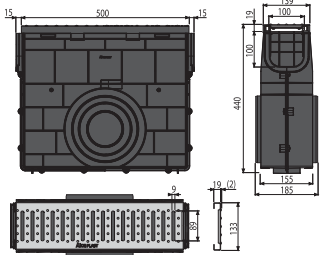
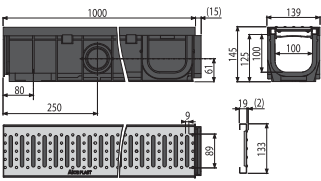
OUTDOOR DRAINS AND DRAIN BOXES HOME+

AVZ102-R102
Outdoor drain channel 100 mm with integrated plastic frame and galvanized "C" profile grid A15

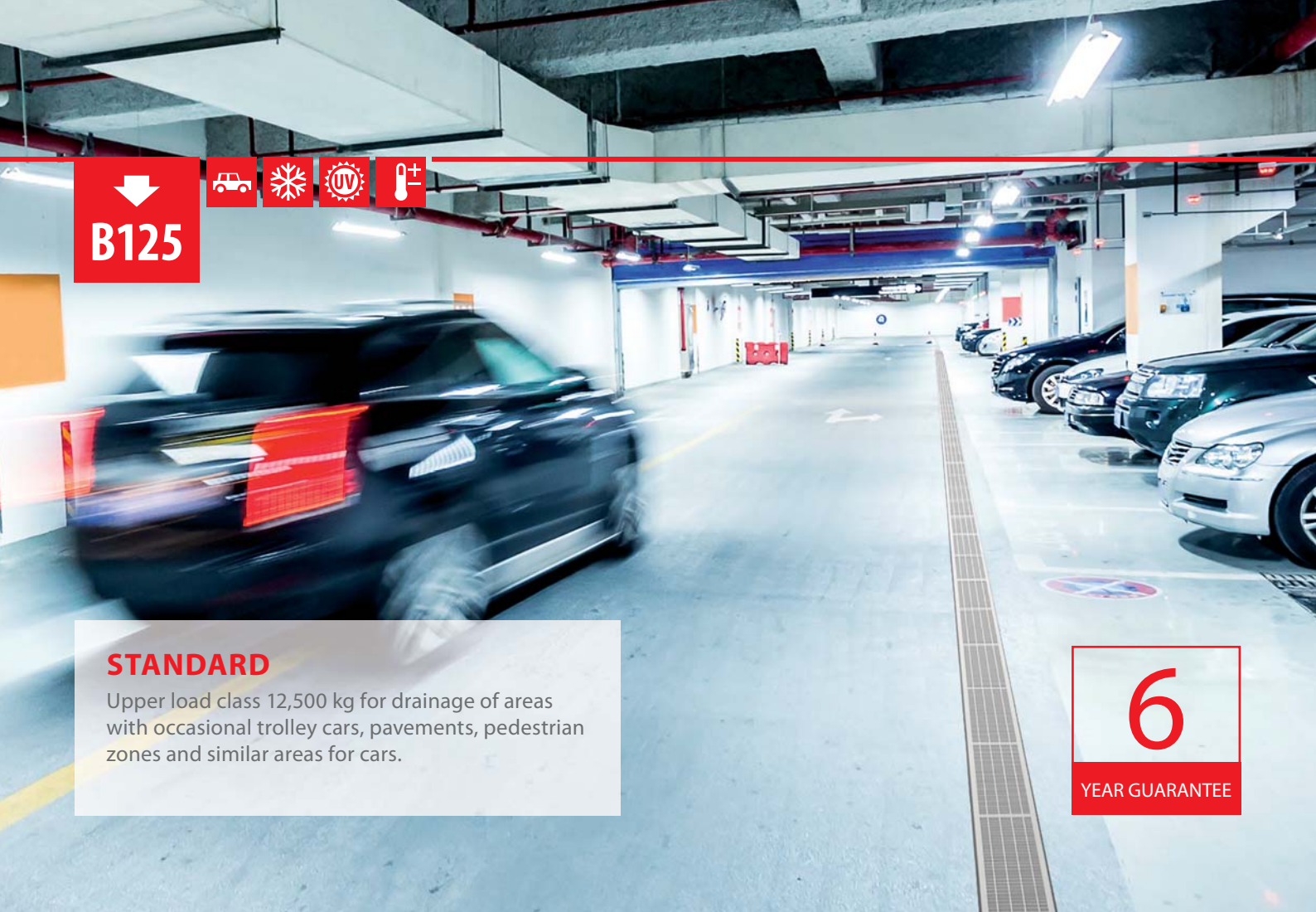
AVZ102R-R102S **N**
Outdoor drain box for AVZ102 with plastic frame and galvanized "C" profile grid A15

AVZ104-R401 **N**
Outdoor drain channel 100 mm with plastic frame and plastic grid A15

AVZ104R-R401 **N**
Outdoor drain box for AVZ104 with plastic frame and plastic grid A15



↓
B125



STANDARD
Upper load class 12,500 kg for drainage of areas with occasional trolley cars, pavements, pedestrian zones and similar areas for cars.

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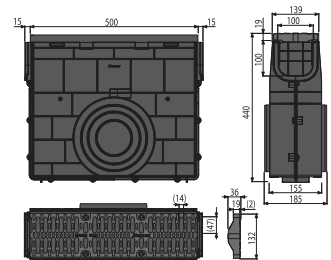
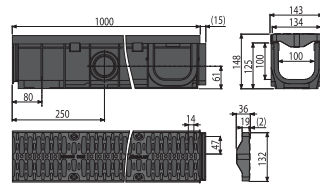
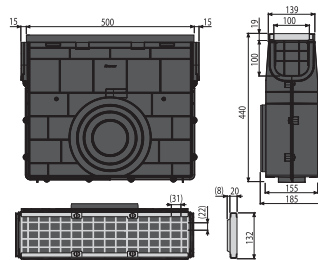
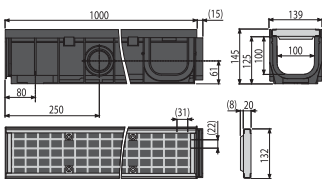
OUTDOOR DRAIN CHANNELS AND DRAIN BOXES STANDARD

AVZ102-R103
Outdoor drain channel 100 mm with plastic frame and galvanized grid B125

AVZ102R-R103S **N**
Outdoor drain box for AVZ102 with plastic frame and galvanized grid B125

AVZ104-R402 **N**
Outdoor drain channel 100 mm with plastic frame and composite grid B125

AVZ104R-R402 **N**
Outdoor drain box for AVZ104 with plastic frame and composite grid B125





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PROFI
For drainage of professional parking areas for passenger cars, pedestrian zones, pavements and adjacent pavements.

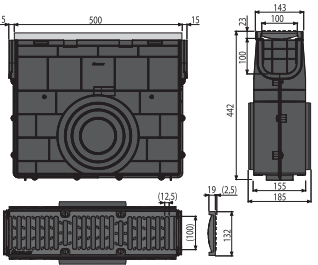
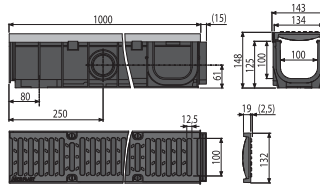
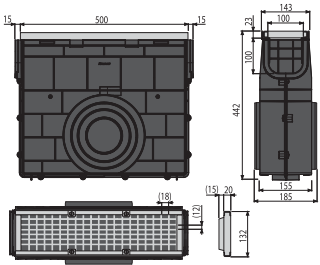
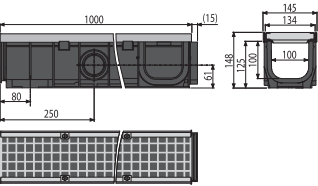
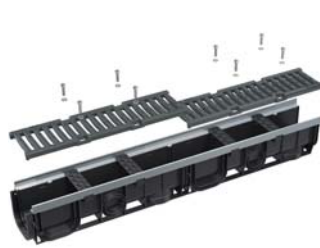
OUTDOOR DRAIN CHANNELS AND DRAIN BOXES PROFI

AVZ103-R104
Outdoor drain channel 100 mm with metal frame and galvanized grid C250

AVZ103R-R104S **N**
Outdoor drain box for AVZ103 with metal frame and galvanized grid C250

AVZ103-R202 **N**
Outdoor drain channel 100 mm with metal frame and a cast iron grid C250

AVZ103R-R202 **N**
Outdoor drain box for AVZ103 with metal frame and cast iron grid C250



↓
C250



PROFI
For drainage of professional parking areas for passenger cars, pedestrian zones, side bands on roads and adjacent sidewalks.

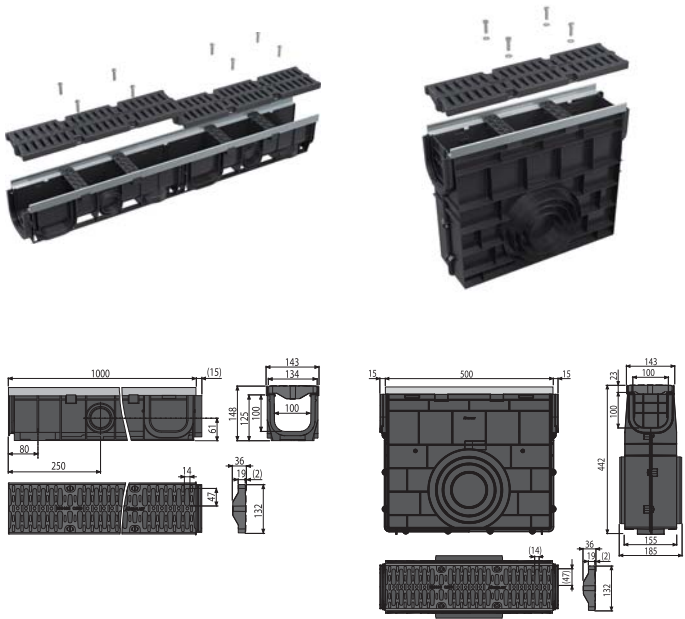
6
YEAR GUARANTEE

OUTDOOR DRAIN CHANNELS AND DRAIN BOXES PROFI

AVZ103-R403 **N**
Outdoor drain 100 mm with metal frame and composite grid C250

AVZ103R-R403 **N**
Outdoor drain box for AVZ103 with metal frame and composite grid C250

Tailor-made solution available



According to customer requirements, we are able to design and produce tailor-made drainage. More on the website www.alcaplast.cz.



Reference installation:
Václav Havel Airport, Prague



D400

73 74 75 76

Alca PLAST®

Alca PLAST®

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YEAR GUARANTEE

TOP

Load class 40,000 kg for drainage of parking lots and often used spaces, logistics centers, road lanes and other similar transportation areas.

OUTDOOR DRAIN CHANNELS AND DRAIN BOXES TOP

AVZ103-R201

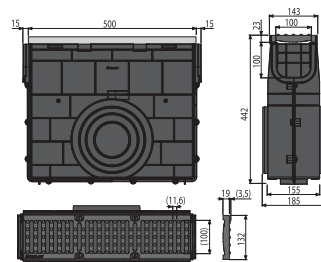
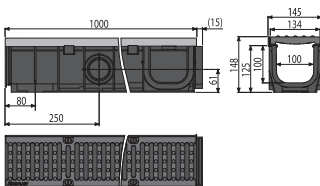
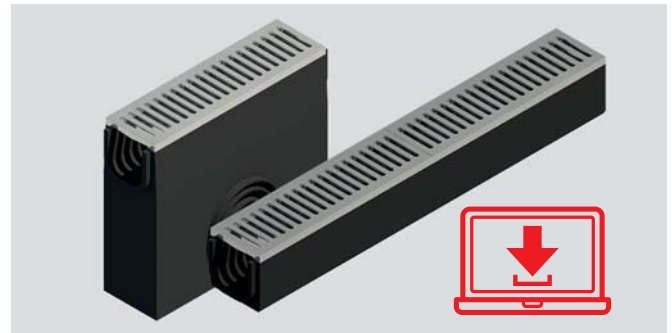
Outdoor drain channel 100 mm with metal frame and a cast iron grid D400

AVZ103R-R201

Outdoor drain box for AVZ103 with metal frame and cast iron grid D400

N

BIM objects



BIM objects can be found here

Visit your web browser address <https://www.alcaplast.com/en/bim> or scan the QR code using a smartphone.





C250



SLOTTED DRAINS
Outdoor drain channels with slotted extensions are intended mainly for architects working on projects that stress the visual side in addition to a high quality drainage system.


NEW

6
YEAR GUARANTEE

OUTDOOR SLOTTED CHANNELS AND DRAIN BOXES

Blends perfectly with its surroundings

Outdoor drains with slotted extensions are intended mainly for architects working on projects that stress the visual side in addition to a high quality drainage system. It is ideal for pedestrian zones, squares, sports fields, gardens, residential buildings and courtyards. Meets the load requirement for C250.

Two variants

We offer symmetrical or asymmetrical slot extension (suitable for use around building walls or curbs). According to the construction height of the selected type of surface of the outdoor area we have the choice of two height variants 100 mm or 160 mm. All grids are custom made of galvanized steel or stainless steel. The offer also includes a half meter access cover that can be easily removed in order to perform routine maintenance of the outdoor drain.

Modular system

The modular system allows simple modification of the drain channel from the side, front or bottom directions (Modules "I", "L", "T" and "X"). One of the greatest advantages is the variable waste connect-ability from the bottom and side. Connections between single drains are fastened by locks which make the installation easy for everybody. The modular system is a modern and innovative way of installation.

Fast assembly

The bodies of the Alcaplast outdoor drain channels are made of polypropylene. Injection molding allows us to have pre-prepared connection slots on the body of the drain that can be easily hammered out to connect utilities via these slots. For a reliable connection of the outdoor drain channel to the waste pipe you can use our accessory kit (see page 27). The stability and rigidity of the drains in the subsoil can be increased by installing threaded steel rods in the prepared lower parts of

the drains. Application of Alcaplast drains significantly reduces installation time, expertise needed and financial costs.

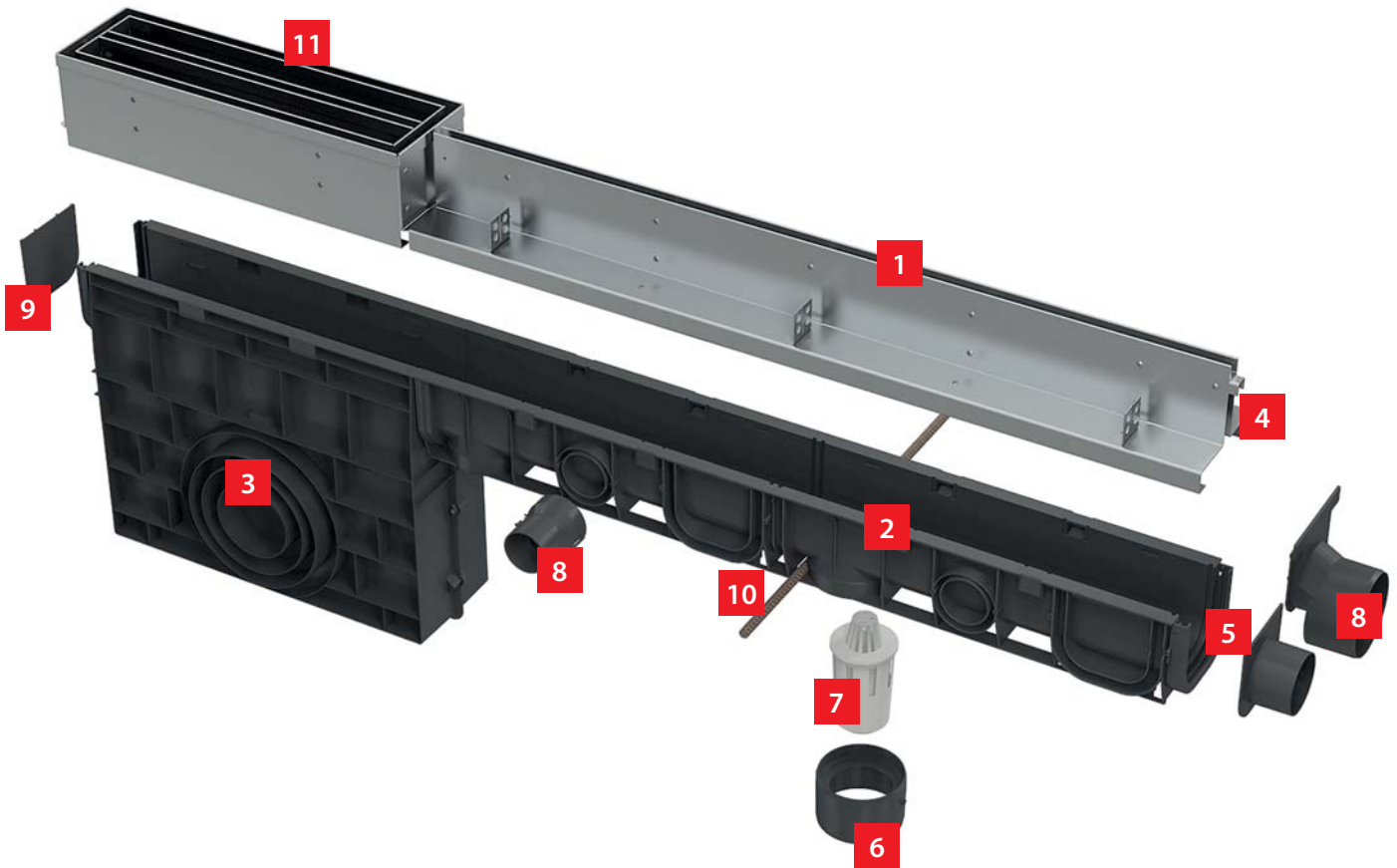
Access cover

Outdoor slotted drainage system forms a closed unit, for cleaning it is necessary to use so-called access covers. They allow the removal of the grid to clean the lower part of the system.

Odour trap

In the case of a direct connection to the waste system, it is possible to use a wet odour trap to prevent the spread of unpleasant odours and corrosive gases from the system.

TECHNICAL SPECIFICATION OF SLOTTED CHANNELS AND DRAIN BOXES



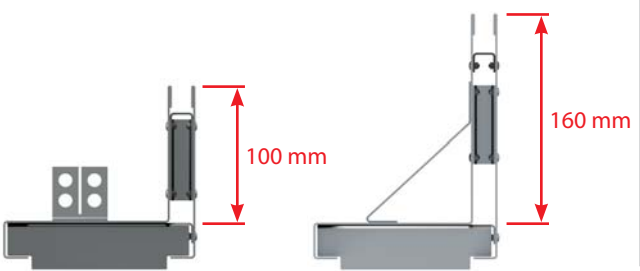
- 1** Outdoor slotted channel with extension
- 2** Drain channel body
- 3** Drain box
- 4** Fixing the grid

- 5** Locking mechanism
- 6** Socket for connection to waste pipe
- 7** Odour trap
- 8** Adapter for connecting side inlet DN50

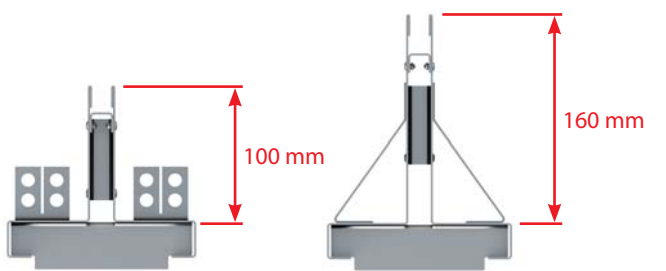
- 9** End cap to cover the inlet
- 10** Holes for inserting the locking rods
- 11** Access cover

HEIGHT VARIANTS

ASYMMETRICAL EXTENTION



SYMMETRICAL EXTENTION



↓
C250



OUTDOOR SLOTTED CHANNELS
They are ideal for pedestrian zones, squares, sports fields, gardens, residential buildings and courtyards. Meet the load requirement for C250.


NEW

6
YEAR GUARANTEE

OUTDOOR SLOTTED CHANNELS AND DRAIN BOXES

AVZ101-R121
Outdoor slotted channel with asymmetrical extension 100 mm, galvanized steel

AVZ101-R122
Outdoor slotted channel with asymmetrical extension 160 mm, galvanized steel

AVZ101-R123
Outdoor slotted channel with symmetrical extension 100 mm, galvanized steel

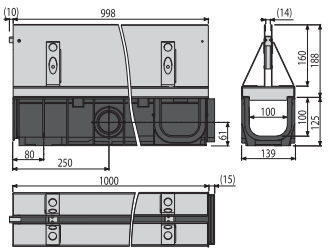
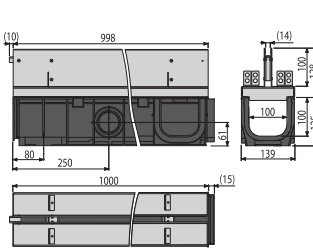
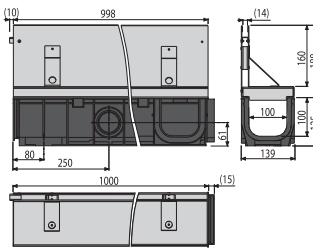
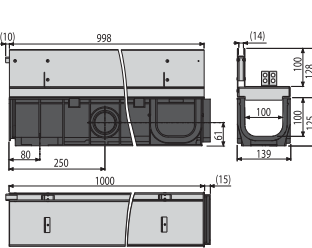
AVZ101-R124
Outdoor slotted channel with symmetrical extension 160 mm, galvanized steel

AVZ101-R321
stainless steel

AVZ101-R322
stainless steel

AVZ101-R323
stainless steel

AVZ101-R324
stainless steel

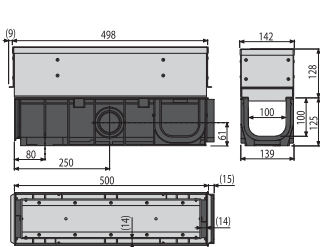


OUTDOOR SLOTTED CHANNELS AND DRAIN BOXES

AVZ101S-R121R

Outdoor slotted channel with asymmetrical access cover 100 mm, galvanized steel

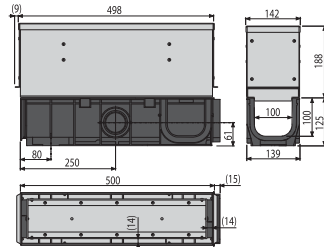
AVZ101S-R321R
stainless steel



AVZ101S-R122R

Outdoor slotted channel with asymmetrical access cover 160 mm, galvanized steel

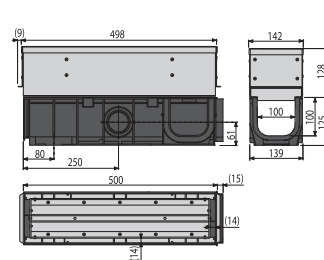
AVZ101S-R322R
stainless steel



AVZ101S-R123R

Outdoor slotted channel with symmetrical access cover 100 mm, galvanized steel

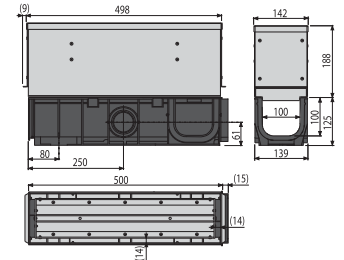
AVZ101S-R323R
stainless steel



AVZ101S-R124R

Outdoor slotted channel with symmetrical access cover 160 mm, galvanized steel

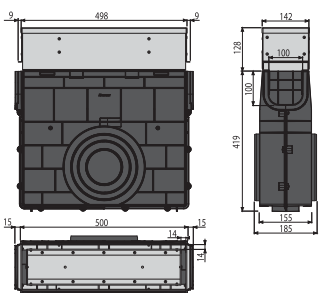
AVZ101S-R324R
stainless steel



AVZ101R-R121R

Outdoor slotted drain box with asymmetrical access cover 100 mm, galvanized steel

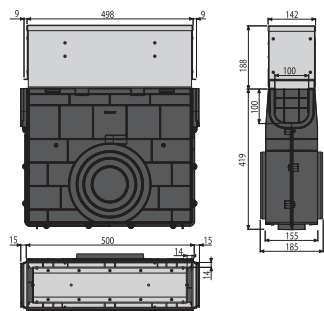
AVZ101R-R321R
stainless steel



AVZ101R-R122R

Outdoor slotted drain box with asymmetrical access cover 160 mm, galvanized steel

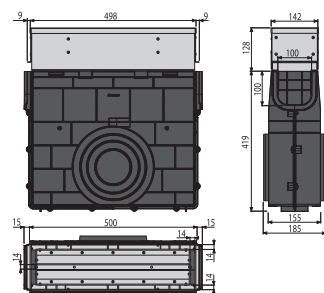
AVZ101R-R322R
stainless steel



AVZ101R-R123R

Outdoor slotted drain box with symmetrical access cover 100 mm, galvanized steel

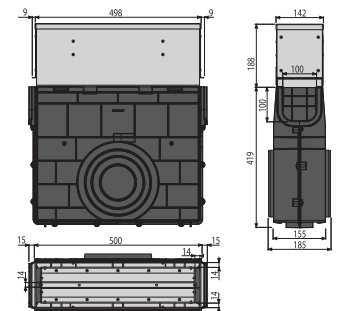
AVZ101R-R323R
stainless steel



AVZ101R-R124R

Outdoor slotted drain box with symmetrical access cover 160 mm, galvanized steel

AVZ101R-R324R
stainless steel





K3



NEW

25

YEAR GUARANTEE

DRAINAGE CHANNELS

Facade and terrace drainage channels extend our range of outdoor drainage systems. They are especially suitable for the drainage of surface water that accumulates around buildings during rain and snow.

FACADE AND TERRACE DRAINAGE CHANNELS

Functionality of the drain

Facade drainage channels ensure drainage of water around buildings to prevent rising damp or potential interior flooding. The drain is perforated to be able to absorb water from the surrounding ground layers and divert it into the waste system.

25 years warranty

Material of the drain and grid, technological procedures, periodic stress testing and quality control of production within the ISO 9001:2015 system allow to provide a six-year warranty. A list of certified plumbers for extended warranty can be found on the website www.alcaplast.com.

Two designs

There is a choice of two materials – galvanized steel and stainless steel. All models are adjustable in height, so that their installation is as simple as possible. They meet load class of K3 and there is a choice of four designs grids.

Advantages:

- easy installation
- simple cleaning
- high quality product
- possibility of height adjustment of the drainage channel
- possibility of tailor-made production
- fixing bolts – ensure perfect attachment of the grid in the channel and eliminate the sound effect during the use of the channel

Application:

- balconies and terraces
- permeable areas in the garden
- drainage along building facades
- protection of buildings against the ingress of water, or even against the water sprayed on the facade when it rains.

Features:

- 2 types of material (galvanized steel/stainless steel)
- grid width: 75 and 100 mm
- standard length of drainage channels is 1 m
- height adjustable drainage channel body 60–80 mm
- load class: K3 = 300 kg
- accessories: coupler, end cap (galvanized/stainless steel)
- 4 grid designs (galvanized steel/stainless steel)

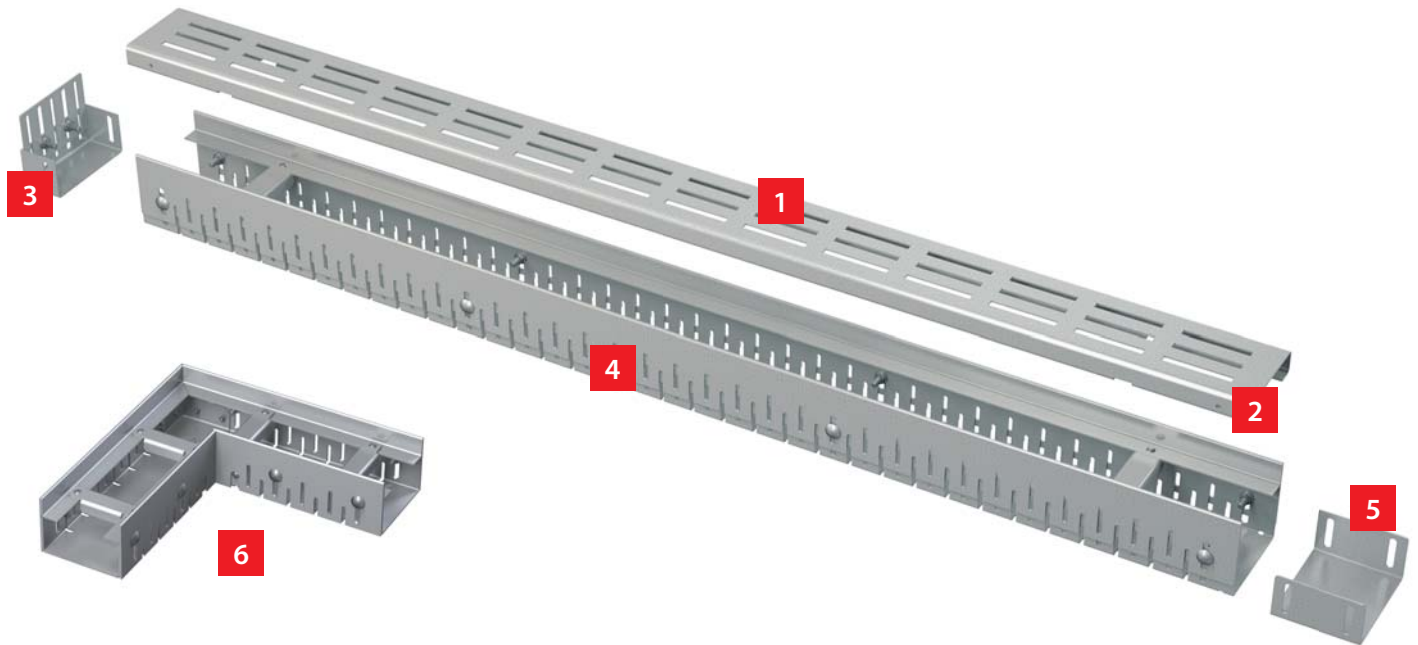


Load class K3 = 300 kg



Designed for sites without traffic

TECHNICAL SOLUTION OF FACADE AND TERRACE DRAINAGE CHANNELS



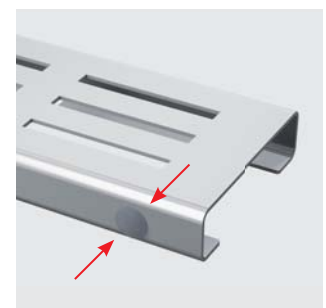
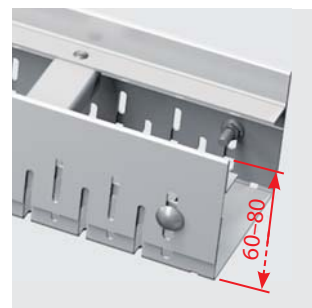
- | | | | | | |
|----------|---------------------------|----------|-------------------------------|----------|------------------------------|
| 1 | Grid for drainage channel | 3 | End cap for drainage channels | 5 | Coupler for drainage channel |
| 2 | Fixing bolt | 4 | Drainage channel | 6 | Drainage corner channel |



POLISHED
STAINLESS
STEEL GRIDS

ADJUSTABLE
HEIGHT OF THE
CHANNEL BODY
IN THE RANGE
OF 60-80 MM

25 YEARS
WARRANTY
ON STAINLESS
STEEL



ADJUSTABLE DRAIN
HEIGHT 60-80 MM

FIXING BOLTS

- | | | | |
|----------|------------------|----------|--------------------|
| 1 | Drainage channel | 4 | Gravel |
| 2 | Insulation | 5 | Substrate material |
| 3 | Tiles | 6 | Facade |

K3



DRAINAGE CHANNELS

Drainage channels are suitable for drainage of balconies, terraces or any permeable area in the garden. They meet the load requirement for K = 300 kg.



NEW

25

YEAR GUARANTEE

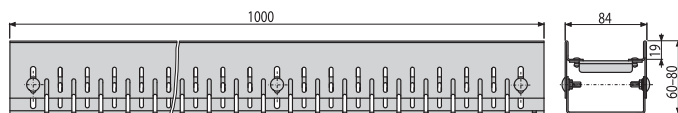
FACADE AND TERRACE DRAINAGE CHANNELS 75 MM

ADZ101V

Drainage channel 75 mm adjustable, galvanized steel

ADZ301V

Drainage channel 75 mm adjustable, stainless steel



ADZ-P003

End cap for drainage channel 75 mm, galvanized steel



ADZ-P007

Coupler for drainage channel 75 mm, galvanized steel



ADZ-R101

Grid for drainage channel 75 mm, galvanized steel



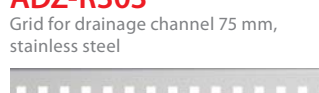
ADZ-R301

Grid for drainage channel 75 mm, stainless steel



ADZ-R103

Grid for drainage channel 75 mm, galvanized steel



ADZ-R303

Grid for drainage channel 75 mm, stainless steel



ADZ-P001

End cap for drainage channel 75 mm, stainless steel



ADZ-R102

Grid for drainage channel 75 mm, galvanized steel



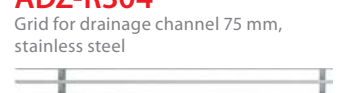
ADZ-R302

Grid for drainage channel 75 mm, stainless steel



ADZ-R104

Grid for drainage channel 75 mm, galvanized steel



ADZ-R304

Grid for drainage channel 75 mm, stainless steel



ADZ-P005

Coupler for drainage channel 75 mm, stainless steel



DRAINAGE CORNER CHANNELS 75 AND 100 MM

ADZ101VR

Drainage corner channel 75 mm adjustable, galvanized steel

ADZ301VR

Drainage corner channel 75 mm adjustable, stainless steel

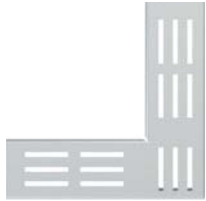


ADZ-R101R

Grid for drainage corner channel 75 mm, galvanized steel

ADZ-R301R

Grid for drainage corner channel 75 mm, stainless steel

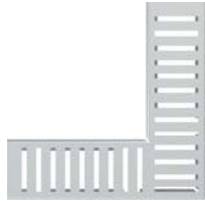


ADZ-R102R

Grid for drainage corner channel 75 mm, galvanized steel

ADZ-R302R

Grid for drainage corner channel 75 mm, stainless steel

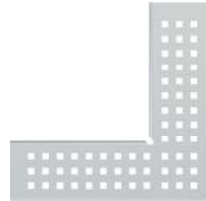


ADZ-R103R

Grid for drainage corner channel 75 mm, galvanized steel

ADZ-R303R

Grid for drainage corner channel 75 mm, stainless steel

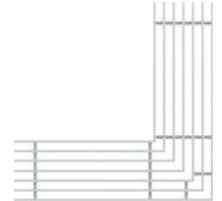


ADZ-R104R

Grid for drainage corner channel 75 mm, galvanized steel

ADZ-R304R

Grid for drainage corner channel 75 mm, stainless steel



ADZ102VR

Drainage corner channel 100 mm adjustable, galvanized steel

ADZ302VR

Drainage corner channel 100 mm adjustable, stainless steel



ADZ-R121R

Grid for drainage corner channel 100 mm, galvanized steel

ADZ-R321R

Grid for drainage corner channel 100 mm, stainless steel



ADZ-R122R

Grid for drainage corner channel 100 mm, galvanized steel

ADZ-R322R

Grid for drainage corner channel 100 mm, stainless steel

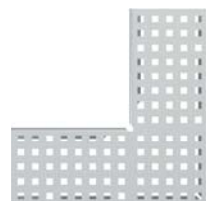


ADZ-R123R

Grid for drainage corner channel 100 mm, galvanized steel

ADZ-R323R

Grid for drainage corner channel 100 mm, stainless steel

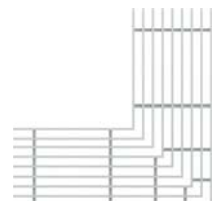


ADZ-R124R

Grid for drainage corner channel 100 mm, galvanized steel

ADZ-R324R

Grid for drainage corner channel 100 mm, stainless steel



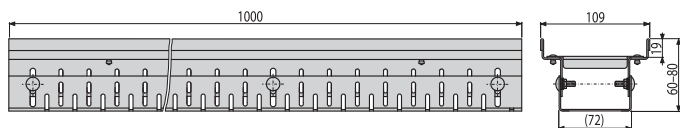
FACADE AND TERRACE DRAINAGE CHANNELS 100 MM

ADZ102V

Drainage channel 100 mm adjustable, galvanized steel

ADZ302V

Drainage channel 100 mm adjustable, stainless steel



ADZ-P004

End cap for drainage channel 100 mm, galvanized steel



ADZ-P008

Coupler for drainage channel 100 mm, galvanized steel



ADZ-R121

Grid for drainage channel 100 mm, galvanized steel

ADZ-R321

Grid for drainage channel 100 mm, stainless steel



ADZ-R123

Grid for drainage channel 100 mm, galvanized steel

ADZ-R323

Grid for drainage channel 100 mm, stainless steel



ADZ-P002

End cap for drainage channel 100 mm, stainless steel

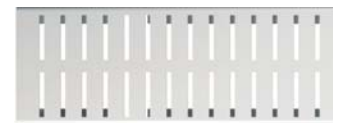


ADZ-R122

Grid for drainage channel 100 mm, galvanized steel

ADZ-R322

Grid for drainage channel 100 mm, stainless steel

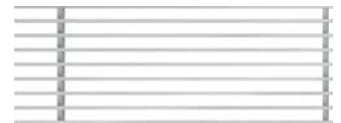


ADZ-R124

Grid for drainage channel 100 mm, galvanized steel

ADZ-R324

Grid for drainage channel 100 mm, stainless steel



ADZ-P006

Coupler for drainage channel 100 mm, stainless steel



↓
K3



UNIVERSAL RAIN DRUMS

Rain drum with dry flap and basket for capturing impurities.

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YEAR GUARANTEE

UNIVERSAL RAIN DRUMS

Drain body with high flow rate

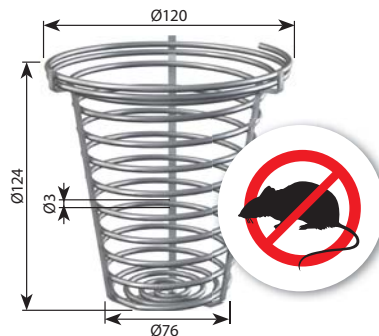
The rain drum body is made of polypropylene enriched with fiberglass. This makes it enormously resistant to chemical, mechanical and thermal damage. Deeper and steeper gradient of the rain drum body enables faster and bigger water flow towards the sewer. The water flow can be up to 486 l/min. Ribbing provides strength and stability on the spot. Straight or side outlet connection. Direct connection has a diameter of DN110, DN125 or universal DN125/110. Diameter of DN110 is suitable for a roof drainage with surface area upto 116 m², diameter DN125 is suitable for roof drainage with surface area upto 190 m². The rain drums are produced in black or grey colours.

Secured flap

The flap forms a dry siphon – limits the transmission of gas from the sewer, prevents the passage of rodents from the waste, closes under its own weight and is secured against flooding.

Basket for catching dirt and leaves

Captures coarse material (mainly leaves) and prevents clogging of sewer pipes. The narrow bottom with ribs allows a gradual fall through of rotting leaves into sewerage. The basket can be easily removed for cleaning.



Stainless steel basket for catching dirt and leaves

As an accessory you can purchase a stainless steel basket for catching dirt and leaves, which is also resistant to damage from rodents thus preventing them from accessing from the roof

downpipes. This basket is compatible with most rain drums in the market.

Inlet rings

Each pack includes a set of eccentric spacer rings, which facilitate the connection of roof downspouts with diameters of 80, 90, 100, 110 and 125 mm. The rings material contains UV stabilizers against aging, fading and degradation of plastics.

Frame and spacer rings are manufactured in black, grey or brick-red colours. This makes it possible to combine the visual part of the rain drum with the colour of selected tiles.

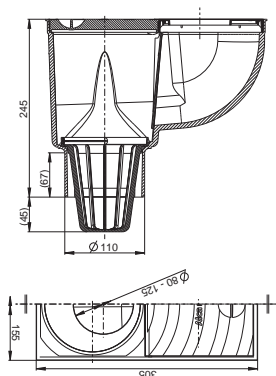
Cover lock

Using the cover lock during heavy rain prevents the cover from opening and flooding the area around it. The locked lid prevents access of children to the drum while playing. The lid and the lock are manufactured in black, grey or brick-red colour.

UNIVERSAL RAIN DRUMS

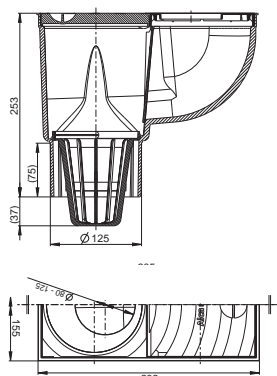
AGV1/AGV1S

Universal rain drum 300x155/110 mm straight outlet, black/grey



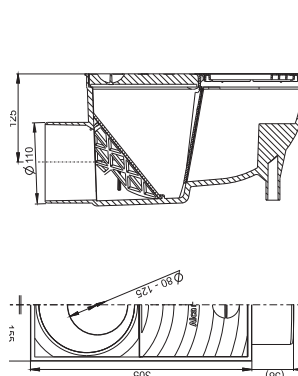
AGV2/AGV2S

Universal rain drum 300x155/125 mm straight outlet, black/grey



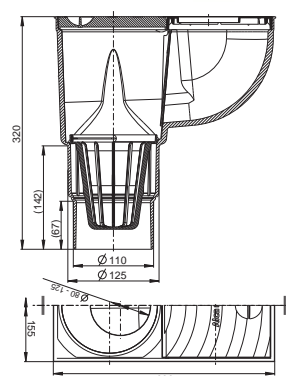
AGV3/AGV3S

Universal rain drum 300x155/110 mm side outlet, black/grey



AGV4/AGV4S

Universal rain drum 300x155/125/110 mm straight outlet, black/grey



Lock

- the lock prevents unintentional opening of the lid and overflow of water during heavy rain
- prevents the access of children at play
- if necessary, it is possible to remove the lock from the rain drum

Basket for leaves and dirt

- captures coarse material (mainly leaves) and prevents clogging of waste pipes
- the narrow bottom with ribs allows a gradual fall through of rotting leaves into sewerage
- basket can be easily removed for cleaning

Material

- polypropylene enriched with glass fiber
- resistant to mechanical and thermal damage
- UV stable – resistant to plastic degradation and fading
- black or grey



Inlet rings

- they are part of each package
- diameters 80, 90, 100, 110, 125 mm
- they allow the connection of all types of roof gutters and downspouts

Flap

- frost-free odour trap – limits the transmission of gas from canalization
- prevents the passage of rodents from the waste
- closes under its own weight and is secured against flooding
- restricts splashing water from the rain drum when removing the lock case

Construction

- resistant to deformation during assembly and to the load (class K3 – load capacity 300 kg)
- ribbing ensures stability on the spot
- deeper and steeper gradient of the rain drum body enables a faster and bigger water flow towards the sewer
- flow rate 390 l/min
- diameter 110, 125 mm or 125/110 mm

K3



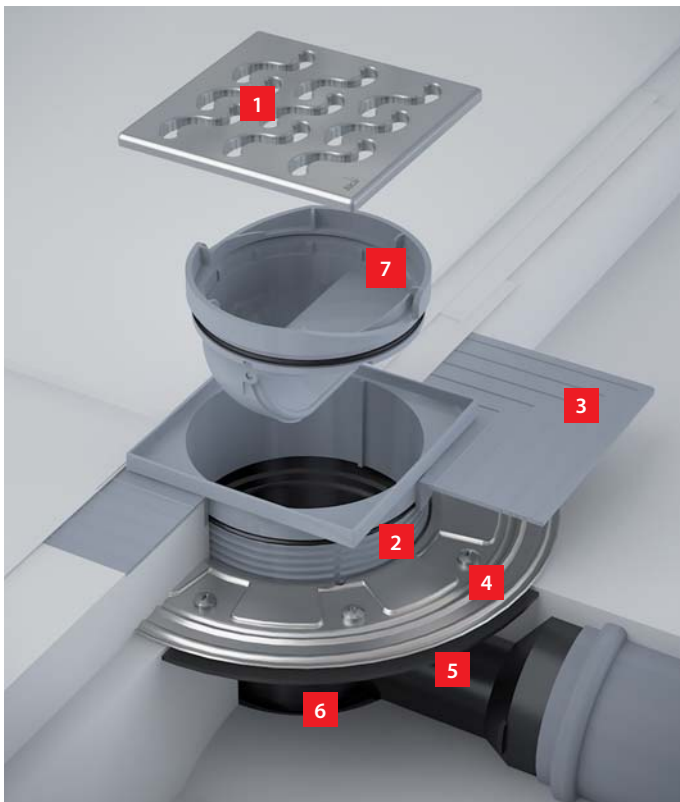
FLOOR DRAINS

They represent the ideal solution for point drainage areas such as bathrooms, terraces, balconies, basements, boiler rooms, swimming pools, horizontal roofs and other places without traffic.

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YEAR GUARANTEE

FLOOR DRAINS



1 Grid

You can choose from a variety of sizes, materials and grid designs. Guaranteed maximum load capacity is 300 kg.

2 Floor drain throat

The floor drain throat has a sufficient construction height of up to 95 mm.

3 Collar -2nd level insulation

2nd level insulation collar allows connection of an insulating layer deposited directly beneath the pavement at the throat inlet.

4 Stainless steel flange

Stainless steel flange insures the connection of the drain to the

buildings waterproofing made with a waterproof membrane.

5 Wide floor drain collar

Floor drain collar is designed to ensure a quality connection to the construction site's waterproofing system.

6 Floor drain body

Floor drain bodies are made of polypropylene, which is resistant to mechanical, chemical and thermal damage up to 95 °C.

7 Odour trap

You can choose from three basic types of odour traps: wet, combined and dry.



Floor drain for interior use



Floor drain for exterior use



Wet odour trap



Dry odour trap



Combined odour trap SMART



Designed for sites without traffic

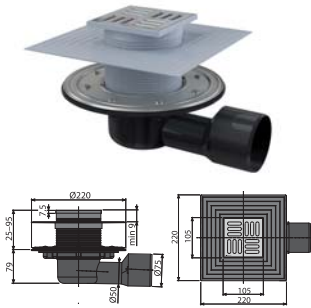


Load class K3 = 300 kg

FLOOR DRAINS

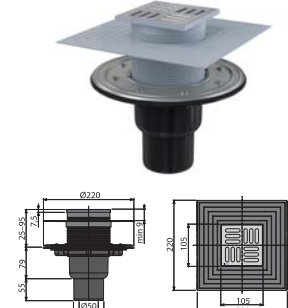
APV3344

Floor drain 105×105/50/75 mm side outlet, stainless steel grid, stainless steel flange and collar-2nd level insulation, wet and dry odour trap



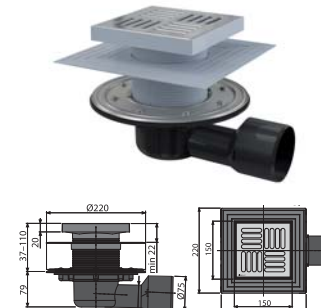
APV4344

Floor drain 105×105/50/75 mm straight outlet, stainless steel grid, stainless steel flange and collar-2nd level insulation, wet and dry odour trap



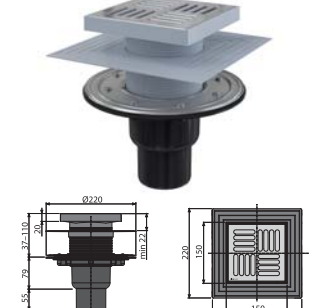
APV3444

Floor drain 150×150/50/75 mm side outlet, stainless steel grid, stainless steel flange and collar-2nd level insulation, wet and dry odour trap



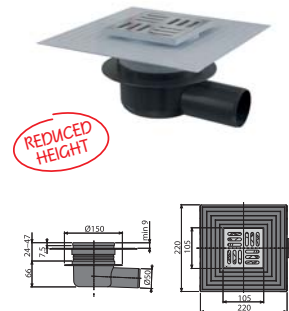
APV4444

Floor drain 150×150/50/75 mm straight outlet, stainless steel grid, stainless steel flange and collar-2nd level insulation, wet and dry odour trap



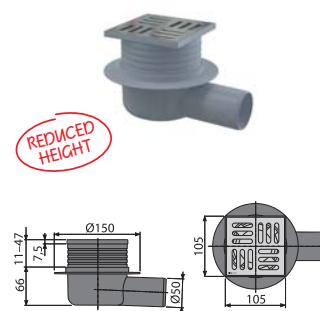
APV26C

Floor drain 105×105/50 mm side outlet, stainless steel grid, collar-2nd level insulation, dry odour trap



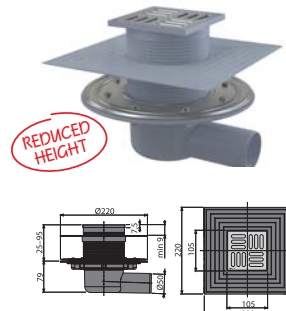
APV26

Floor drain 105×105/50 mm side outlet, stainless steel grid, wet odour trap



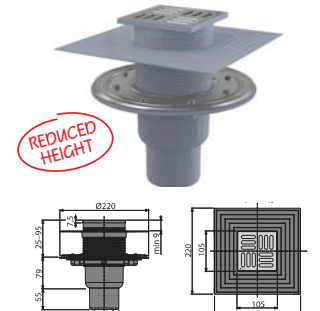
APV1324

Floor drain 105×105/50 mm side outlet, stainless steel grid, stainless steel flange and collar-2nd level insulation, combined odour trap SMART



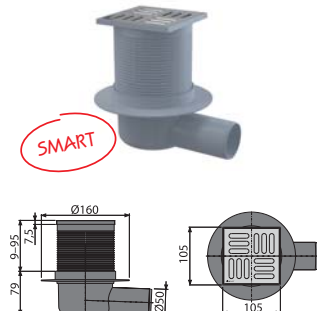
APV2324

Floor drain 105×105/50/75 mm straight outlet, stainless steel grid, stainless steel flange and collar-2nd level insulation, combined odour trap SMART



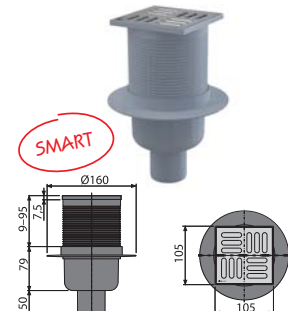
APV31

Floor drain 105×105/50 mm side outlet, stainless steel grid, combined odour trap SMART



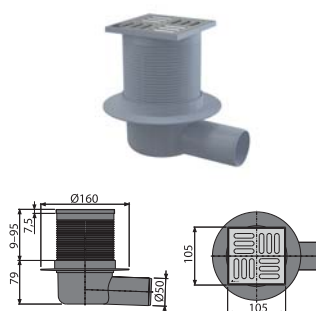
APV32

Floor drain 105×105/50 mm straight outlet, stainless steel grid, combined odour trap SMART



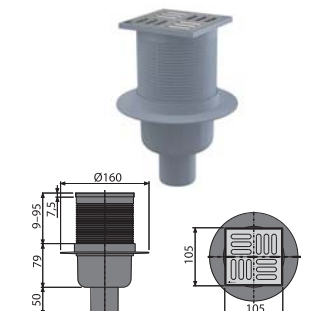
APV1

Floor drain 105×105/50 mm side outlet, stainless steel grid, wet odour trap



APV2

Floor drain 105×105/50 mm straight outlet, stainless steel grid, wet odour trap



THE SPECIFICATION OF OUTDOOR DRAINAGE SYSTEM ALCAPLAST

Drain channel body

Construction of the drain is sturdy and is made of polypropylene, which is resistant to mechanical, chemical and thermal damage. In case of full pouring of concrete the stiffness is comparable to that of polymer concrete drains. Drain length is 1,000 mm, inner dimension 100x100 mm.



Cutting in half

The drain can be divided in half and easily connected to the other pieces by using the available locking mechanism. No waste. By simply cutting the drain in half you can achieve the desired length and shape. The cut piece can also be connected.



Fixing the grid

The HOME+ variant is based on a safety system using our innovative plastic lock "SAFE". Grids class STANDARD, PROFI and TOP are fixed with screws.



Locking mechanism

Each part of the drain has at one end a male connection and a female on the other (same principal as an electrical plug). By inserting the male part into the female part you achieve a solid connection. Connected drain channels hold a straight line.



Modular connectivity

Lock system allows easy connecting without additional elements! That brings not only easy installation, but also cost savings. All available shapes of coupling "I", "L", "T" and "X" can be achieved without additional accessories.



The "L" shaped connection



The "T" shaped connection



The "X" shaped connection

Odour trap

If you use the bottom outlet to connect directly to the waste then you can use a wet odour trap with it.



Side connections

The outdoor drain channel has four prepared side openings which can be easily hammered and connected to a pipe DN50. It could be used for additional connection to the floor drain or rain drum.

Frontal connection for DN75.



Bottom outlet

For an easy connection to the waste it is possible to use a vertical outlet. The drain can be easily connected to a sewer pipe of DN110 after hammering and opening the prepared hole.



The holes for inserting the locking rods

By inserting the locking rods into the prepared holes in the bottom edge of the drain body, you achieve higher stability and capacity of the drainage structure. By concreting the locking rods we also prevent possible theft.



Access cover for the slotted drain channels

The outdoor slotted drainage system forms a closed unit, for cleaning it is necessary to use so-called access covers. They allow the removal of one extension segment so that you can easily clean the bottom part of the system.



Grids

Alcaplast's outdoor drainage system offers many grid options. You can choose not only from different load categories, but also from many designs, including slot. It is worth mentioning except for standard metal grids as well as their plastic equivalents. They are available not only in load class A15 = 1.5 tons, but also in the category C250, which corresponds to 25 tons. They represent an adequate alternative to replace the heavy cast iron grates.



Outdoor drain channels and drain boxes

↓
A15



AVZ101-R101

AVZ102-R102

AVZ104-R401

↓
B125



AVZ102-R103

AVZ104-R402



AVZ101R-R101S



AVZ102R-R102S



AVZ104R-R401



AVZ102R-R103S



AVZ104R-R402

↓
C250



AVZ103-R104

AVZ103-R202

AVZ103-R403

↓
D400



AVZ103-R201



AVZ103R-R104S



AVZ103R-R202



AVZ103R-R403



AVZ103R-R201

Outdoor slotted channels and drain boxes

↓
C250



AVZ101-R121
AVZ101-R321

AVZ101-R122
AVZ101-R322

AVZ101-R123
AVZ101-R323

AVZ101-R124
AVZ101-R324



AVZ1015-R121R
AVZ1015-R321R



AVZ1015-R122R
AVZ1015-R322R



AVZ1015-R123R
AVZ1015-R323R



AVZ1015-R124R
AVZ1015-R324R



AVZ101R-R121R
AVZ101R-R321R



AVZ101R-R122R
AVZ101R-R322R



AVZ101R-R123R
AVZ101R-R323R



AVZ101R-R124R
AVZ101R-R324R

Outdoor drains accessories



AVZ-P001



AVZ-P002



AVZ-P003



AVZ-P004



AVZ-P005



AVZ-P006



AVZ-P014K



AVZ-P007



AVZ-P008



AVZ-P009



AVZ-P010



AVZ-P012



AVZ-P013



AVZ-P014L

Facade and terrace drainage channels



ADZ101V
ADZ301V



ADZ101VR
ADZ301VR



ADZ-R101R
ADZ-R301R



ADZ-R102R
ADZ-R302R



ADZ-R103R
ADZ-R303R



ADZ-R104R
ADZ-R304R



ADZ102V
ADZ302V



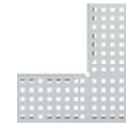
ADZ102VR
ADZ302VR



ADZ-R121R
ADZ-R321R



ADZ-R122R
ADZ-R322R



ADZ-R123R
ADZ-R323R



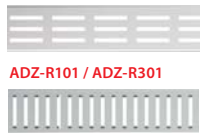
ADZ-R124R
ADZ-R324R



ADZ-P004
ADZ-P002



ADZ-P003
ADZ-P001



ADZ-R101 / ADZ-R301



ADZ-R103 / ADZ-R303



ADZ-R121 / ADZ-R321



ADZ-R123 / ADZ-R323

ADZ-R102 / ADZ-R302

ADZ-R104 / ADZ-R304

ADZ-R122 / ADZ-R322

ADZ-R124 / ADZ-R324



ADZ-P007
ADZ-P005



ADZ-P008
ADZ-P006



Universal rain drums



AGV1
AGV15



AGV2
AGV25



AGV3
AGV35



AGV4
AGV45



AGV940
AGV940S



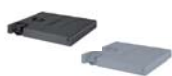
AGV941



AGV911
AGV911S



AGV910
AGV910S



AGV920
AGV920S



AGV930
AGV930S



AGV900
AGV900S



AGV942



Floor drains



APV3344



APV4344



APV3444



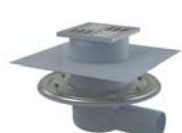
APV4444



APV26C



APV26



APV1324



APV2324



APV31



APV32



APV1



APV2



The ALCAPLAST team of specialists is always on hand to help with design, installation and quote project prices.

Czech product ISO 9001:2015

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EN 55014-1, EN 55014-2, EN 61000-6, EN 61000-4
NV 616/2006 Sb. Coll. as amended
2011/95/EC including amendments

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