



GUTTER SYSTEMS | **ROOF SOFFITS** | **LINEAR DRAINAGE** | **WATER STORAGE SYSTEMS**





GAMRAT SA

The origins of Gamrat SA go back to the 1930s. For decades, we have been setting standards in the building materials market. Our extensive range includes PE and PVC pipes, polyvinyl chloride and steel roof gutters as well as PVC soffits and reinforced hoses. DrenGam linear drainage systems, EasyGam water collection systems and WellGam manhole systems have expanded our range of products over the past 10 years. GAMRAT SA's products are used by contractors in the infrastructure and public utilities sectors, as well as by individual customers.



GAMRAT SA OFFER

STEEL GUTTER SYSTEMS STALGAM

6

GUTTER SYSTEMS WITH ACRYLIC ADDITION MAGNAT

12

PVC GUTTER SYSTEMS

18

ROOF SOFFITS

28

LINEAR DRAINAGE SYSTEMS

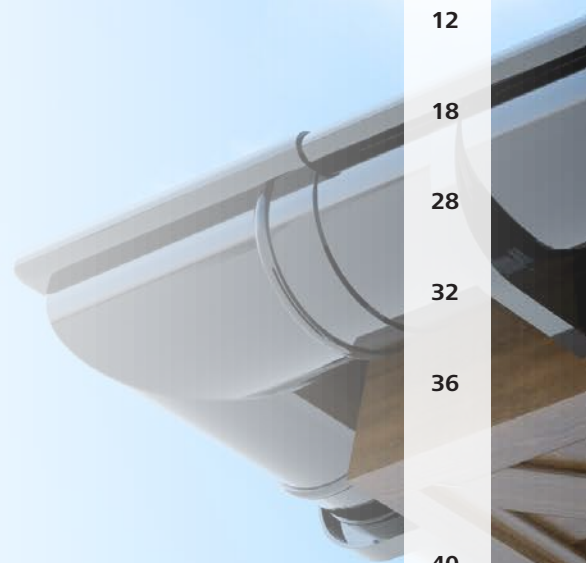
32

WATER STORAGE SYSTEMS

36

INSTALLATION INSTRUCTIONS

40







STEEL GUTTER SYSTEMS
STALGAM

STALGAM

30-YEAR WARRANTY*

If you are looking for steel gutter systems that combine an elegant appearance with the drainage efficiency and extended service life of double-coated steel, and if you are concerned about the environment in which we live, then StalGam's gutter systems, manufactured from environmentally friendly Swedish GreenCoat® coated steel, will be your best choice.


Deep gutter profile

Ensures high water drainage efficiency and protects against water overflow, even during heavy rainfall.


Highest quality steel

Made of Swedish steel produced from extremely pure iron ore.


High durability of metal sheets

The application of protective layers protects against harmful atmospheric agents.


Advanced technology

The structure of the gutter coating provides colour retention for many years and protection against scratches. The primer coat is in the same colour as the top coat (possible scratches less visible).


Resistance to temperature changes

Steel systems guarantee thermal resistance – no deformation at extreme temperatures.


Wide range of accessories

The set of available components creates a fully safe, robust and functional rainwater drainage system.

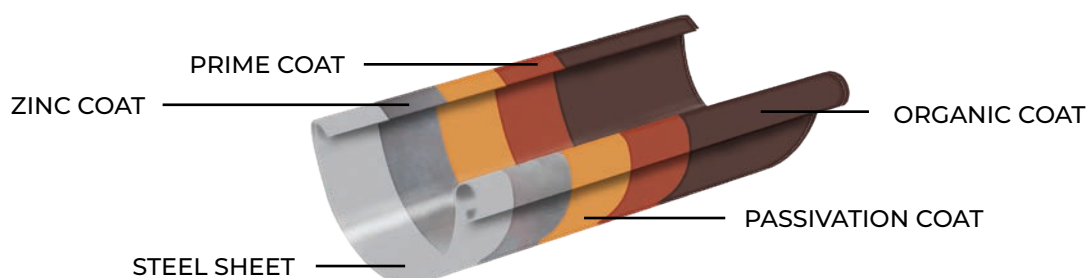

High mechanical strength

Gutters and downpipes are manufactured from rigid steel, extremely resistant to deformation.


Simple and quick assembly

The system has been designed to be quick and easy to assemble – economical for the investor and efficient for the contractor.

gutter systems
made from the highest quality
Swedish GreenCoat® sheet metal



INSTALLATION SCHEME AND ASSORTMENT

The individual gutter sections are overlapped and the joint is secured with additional gutter connectors with gaskets. The downpipes have a factory-made rims and can be connected without pipe connectors.

The STALGAM system is manufactured from high-quality Swedish GreenCoat® steel. GreenCoat® is a trademark of the group of the SSAB companies. We offer three GAMRAT STALGAM gutter systems.

SYSTEM

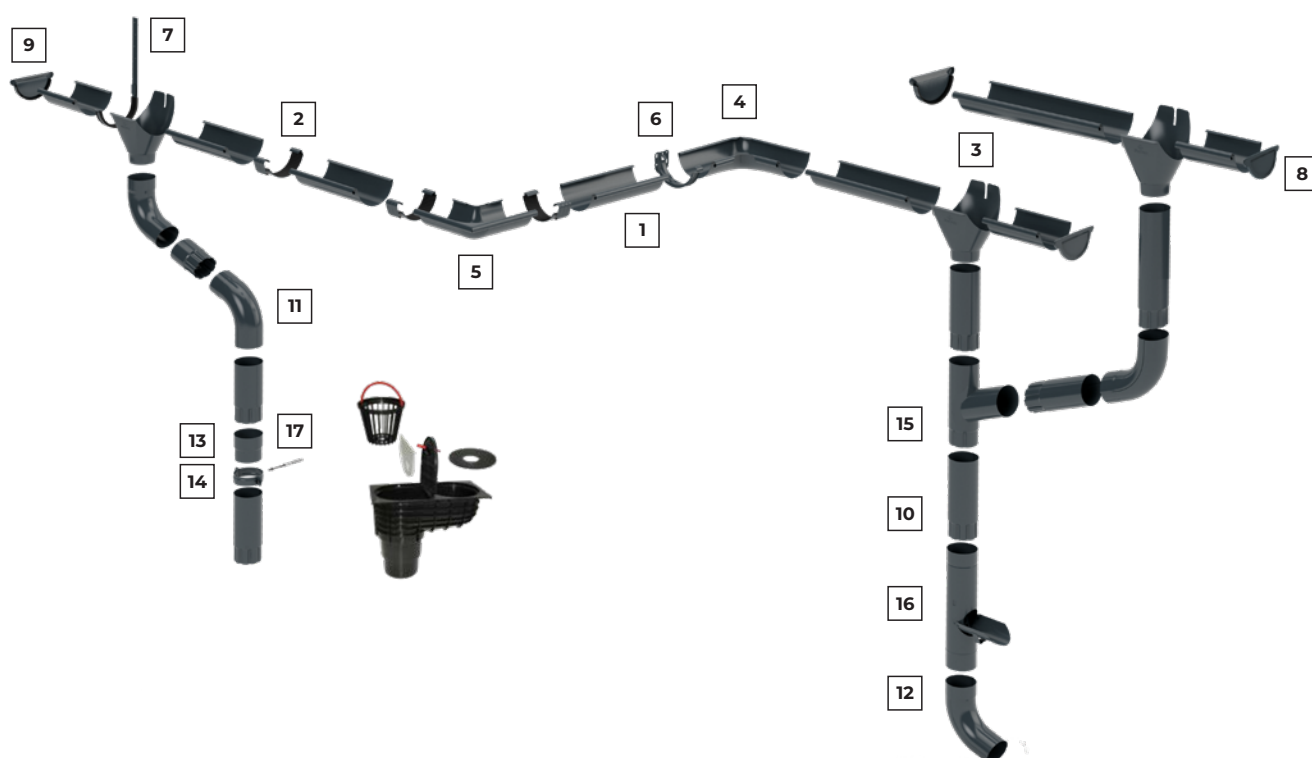
125
/87

SYSTEM

125
/100

SYSTEM

150
/100



COLOURS

The colour number given is determined by the sheet metal manufacturer SSAB. The nearest RAL colours are shown. The colour range shown is only an approximate representation of the colours.



black
015/~RAL 9005



dark graphite
036/~RAL 7024



graphite
087/~RAL 7011



dark brown
387/~RAL 8019



brown
434/~RAL 8017



brick-red
742/~RAL 8004



silver
044/~RAL 9007

* The warranty covers gutters, downpipes and gutter and pipe fittings made of sheet metal. The warranty covers the products' resistance to perforation corrosion (details on the warranty form). The warranty does not cover additional accessories.

1. GUTTER

			dark brown	black	graphite	brick-red	brown	silver	dark graphite	In a package /on a pallet	
125	A	125	125 (dl. 3 m)	375210319	371210319	374210319	373210319	376210319	377210319	379210319	15 m / 480 mb
125	H	84	125 (dl. 4 m)	375210419	371210419	374210419	373210419	376210419	377210419	379210419	20 m / 640 mb
150	A	150	150 (dl. 3 m)	375310319	371310319	374310319	373310319	376310319	377310319	379310319	15 m / 345 mb
150	H	97	150 (dl. 4 m)	375310419	371310419	374310419	373310419	376310419	377310419	379310419	20 m / 460 mb

2. GUTTER CONNECTOR

			dark brown	black	graphite	brick-red	brown	silver	dark graphite	in a package /on a pallet	
125	L	55	125	375221009	371221009	374221009	373221009	376221009	377221009	379221009	100 pcs / 4000 pcs
150	L	55	150	375321009	371321009	374321009	373321009	376321009	377321009	379321009	100 pcs / 4000 pcs

3. DROP OUTLET

				dark brown	black	graphite	brick-red	brown	silver	dark graphite	in a package /on a pallet	
125/87	L	141										
125/87	Dz	84		125/87	375222109	371222109	374222109	373222109	376222109	377222109	379222109	10/400 pcs
125/100	L	170		125/100	375222009	371222009	374222009	373222009	376222009	377222009	379222009	10/400 pcs
125/100	Dz	96		125/100	375222009	371222009	374222009	373222009	376222009	377222009	379222009	10/400 pcs
150/100	L	170		150/100	375322009	371322009	374322009	373322009	376322009	377322009	379322009	10/400 pcs
150/100	Dz	96		150/100	375322009	371322009	374322009	373322009	376322009	377322009	379322009	10/400 pcs

4. INNER CORNER

			dark brown	black	graphite	brick-red	brown	silver	dark graphite	in a package /on a pallet	
125/90°	L1	96	125/90°	375223189	371223189	374223189	373223189	376223189	377223189	379223189	5/200 pcs
125/90°	L2	225	125/kat α	375223279	371223279	374223279	373223279	376223279	377223279	379223279	1/0 pcs
150/90°	L1	130	150/90°	375323189	371323189	374323189	373323189	376323189	377323189	379323189	5/200 pcs
150/90°	L2	280	150/kat α	375323279	371323279	374323279	373323279	376323279	377323279	379323279	1/0 pcs

corners with opening angle different from 90° available on request

5. OUTER CORNER

			dark brown	black	graphite	brick-red	brown	silver	dark graphite	in a package /on a pallet	
125/90°	L1	245	125/90°	375224189	371224189	374224189	373224189	376224189	377224189	379224189	5/200 pcs
125/90°	L2	103	125/kat α	375224279	371224279	374224279	373224279	376224279	377224279	379224279	1/0 pcs
150/90°	L1	305	150/90°	375324189	371324189	374324189	373324189	376324189	377324189	379324189	5/200 pcs
150/90°	L2	135	150/kat α	375324279	371324279	374324279	373324279	376324279	377324279	379324279	1/0 pcs

corners with opening angle different from 90° available on request

6. SUPPORT BRACKET

125	H	113																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
-----	---	-----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

7. STRAIGHT SUPPORT BRACKET

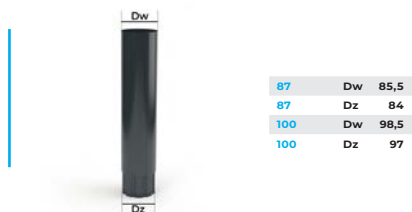
	dark brown	black	graphite	brick-red	brown	silver	dark graphite	in a package /on a pallet
125	375225105	371225105	374225105	373225105	376225105	377225105	379225105	20/2000 pcs
150	375325105	371325105	374325105	373325105	376325105	377325105	379325105	20/2000 pcs

8. NARROW UNIVERSAL STOP END

	dark brown	black	graphite	brick-red	brown	silver	dark graphite	in a package /on a pallet
125	375226309	371226309	374226309	373226309	376226309	377226309	379226309	54/2160 pcs
150	375326309	371326309	374326309	373326309	376326309	377326309	379326309	30/1200 pcs

9. WIDE UNIVERSAL STOP END

	dark brown	black	graphite	brick-red	brown	silver	dark graphite	in a package /on a pallet
125	375226305	371226305	374226305	373226305	376226305	377226305	379226305	50/2000 pcs
150	375326305	371326305	374326305	373326305	376326305	377326305	379326305	30/960 pcs

10. DOWNPIPE

	dark brown	black	graphite	brick-red	brown	silver	dark graphite	in a package /on a pallet
87 /1m	375510119	371510119	374510119	373510119	376510119	377510119	379510119	1m/ 98 mb
87 /3m	375510319	371510319	374510319	373510319	376510319	377510319	379510319	3m/294 mb
87 /4m	375510419	371510419	374510419	373510419	376510419	377510419	379510419	4m/392 mb
100 /1m	375610129	371610129	374610129	373610129	376610129	377610129	379610129	1m/66 mb
100 /3m	375610329	371610329	374610329	373610329	376610329	377610329	379610329	3m/198 mb
100 /4m	375610429	371610429	374610429	373610429	376610429	377610429	379610429	4m/264 mb

11. BEND 62°

	dark brown	black	graphite	brick-red	brown	silver	dark graphite	in a package /on a pallet
87	375522009	371522009	374522009	373522009	376522009	377522009	379522009	10/400 pcs
100	375622009	371622009	374622009	373622009	376622009	377622009	379622009	8/320 pcs

12. SHOE 62°

	dark brown	black	graphite	brick-red	brown	silver	dark graphite	in a package /on a pallet
87	375522509	371522509	374522509	373522509	376522509	377522509	379522509	10/400 pcs
100	375622509	371622509	374622509	373622509	376622509	377622509	379622509	8/320 pcs

13. DOWNPIPE CONNECTOR

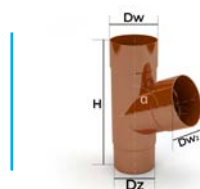
87	Dw	88,6
87	Dz	85
100	Dw	102
100	Dz	97

	dark brown	black	graphite	brick-red	brown	silver	dark graphite	in a package /on a pallet
87	375521009	371521009	374521009	373521009	376521009	377521009	379521009	25/1000 pcs
100	375621009	371621009	374621009	373621009	376621009	377621009	379621009	25/1000 pcs

14. PIPE SUPPORT

87	H	29
87	Dw	87
100	H	29
100	Dw	101

	dark brown	black	graphite	brick-red	brown	silver	dark graphite	in a package /on a pallet
87	375523005	371523005	374523005	373523005	376523005	377523005	379523005	15/3000 pcs
100	375623005	371623005	374623005	373623005	376623005	377623005	379623005	10/2000 pcs

15. BRANCH 62°

87/87	L	320
87/87	Dw	88
87/87	Dw2	88
87/87	Dz	85
87/87	a	62°
100/100	L	346
100/100	Dw	102
100/100	Dw2	102
100/100	Dz	97
100/100	a	62°

	dark brown	black	graphite	brick-red	brown	silver	dark graphite	in a package /on a pallet
87/87	375524109	371524109	374524109	373524109	376524109	377524109	379524109	5/200 pcs
100/100	375624209	371624209	374624209	373624209	376624209	377624209	379624209	5/200 pcs

16. RAIN DIVERTER

87	Dw	88
87	H	400
87	Dz	84
100	Dw	102
100	H	400
100	Dz	98

	dark brown	black	graphite	brick-red	brown	silver	dark graphite	in a package /on a pallet
87	375525009	371525009	374525009	373525009	376525009	377525009	379525009	5/0 pcs
100	375625009	371625009	374625009	373625009	376625009	377625009	379625009	5/0 pcs

17. WALL PLUG

		in a package
8/100	370910105	-
8/140	370910305	-
8/180	370910505	-
8/220	370910705	-
8/250	370910805	-
8/300	370910905	-



GUTTER SYSTEMS WITH ACRYLIC ADDITION

MAGNAT

MAGNAT

12-YEAR WARRANTY*

Gamrat Magnat is a range of gutter systems designed for the most demanding customers looking for original colours and a high quality product. The uniqueness of the systems lies in their nature, as Gamrat Magnat was created by combining traditional PVC with modern acrylic material. The range of colours in this series is undoubtedly one of the widest available on the market. The copper and silver colours use copper and aluminium particles to give them a unique 'metallic' effect. Magnat systems are highly UV-resistant. Thanks to the use of innovative technology, the user can be certain that the colours will not change or fade for many years. This fact is confirmed by the manufacturer's 12-year colour fastness warranty.



Innovative material

The uniqueness of the new system lies in its "nature", as Gamrat Magnat was created by combining traditional PVC and modern acrylic materials.



Proven shape

Gamrat Magnat combines the benefits of modern plastic with the tried and tested traditional gutter shape. The deep profile and perfectly smooth surface ensure excellent flow capacity. On the other hand, the characteristic curvature of the front and rear edges of the gutter makes the system stronger and more rigid.



Resistant to extreme conditions

Laboratory tests have shown that these materials have unprecedented high resistance to the effects of aggressive atmospheric factors, so that sunlight, fluctuating and even extreme ambient temperatures, heavy snowfall, or acid rain are no threat to Gamrat Magnat gutters.



Simplicity of installation

The Gamrat Magnat gutter system is extremely easy to install thanks to the snap-and-gasket connection method. It should be used in accordance with the installation instructions included in the packaging of the system components.



Colour under control

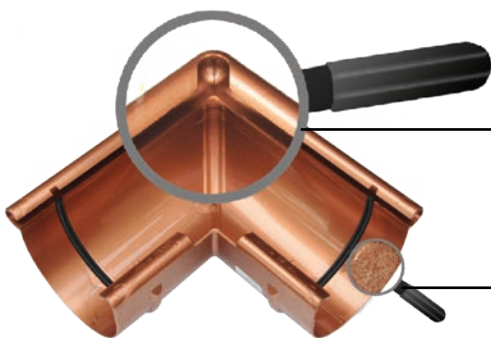
Gamrat Magnat gutters, thanks to their exceptional resistance to solar radiation maintain a long-lasting and deep colour for many years. This is confirmed by a 12-year manufacturer's warranty*.



Does not require painting

Gamrat Magnat is a gutter system that is completely corrosion-resistant, does not require painting, is easy to keep clean, and gives many years of satisfaction and safety of use.

The only guttering systems
with a 12-year warranty
for colour fastness



REINFORCED CORNER

Its unique shape increases the strength of fittings.

METAL PARTICLES

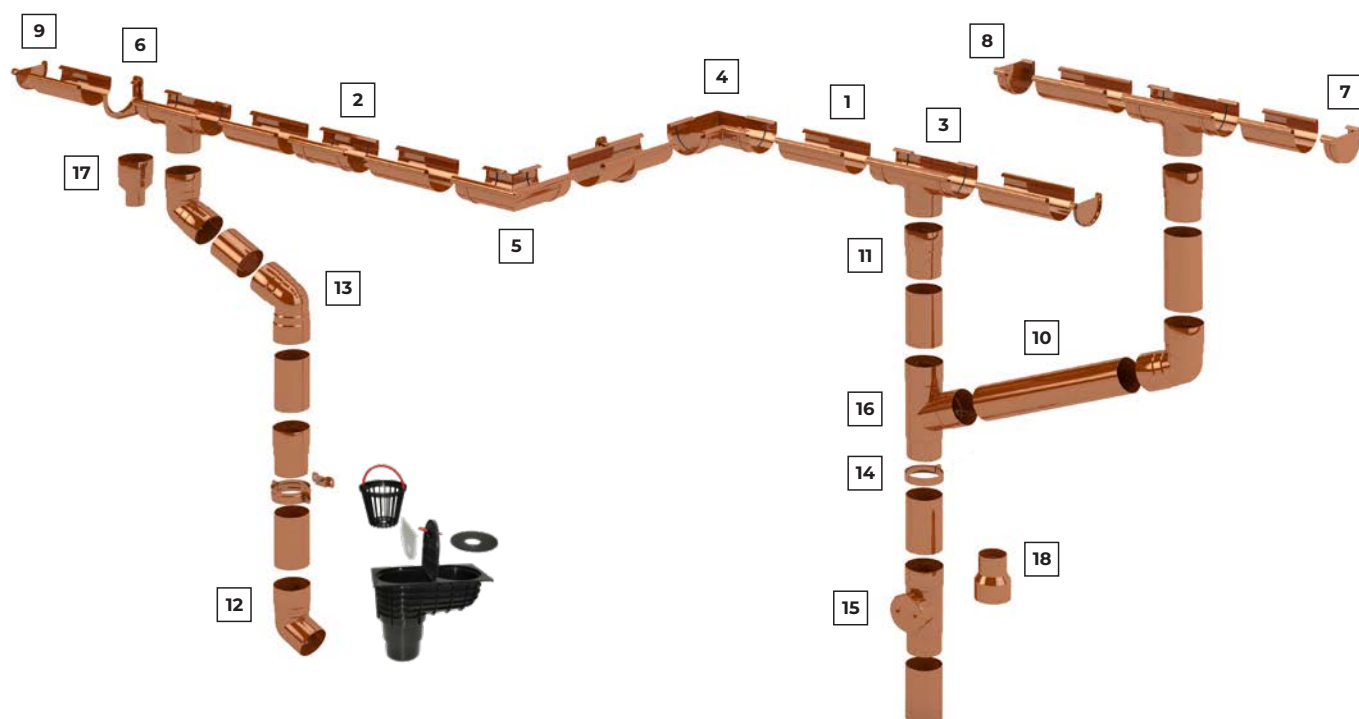
Fittings material contains copper and aluminium particles, which provide the depth of the "metallic" effect.

INSTALLATION SCHEME AND ASSORTMENT

The individual gutter sections are connected to the gutter fittings by snap-fitting with a rubber gasket. The connections between the downpipes and fittings are made as socket connections without gaskets. This type of connection meets the basic requirements for ease of installation and tightness. A snap-fit joint with a gasket is the most effective way of compensating for thermal changes in the length of plastic parts.

We offer five GAMRAT MAGNAT gutter systems.

SYSTEM	SYSTEM	SYSTEM	SYSTEM	SYSTEM
75 /63	100 /63	100 /90	125 /90	125 /110



COLOURS

The nearest RAL colours are shown. The colour range shown is only an approximate representation of the colours.



copper



silver
~RAL 9023



brick-red
~RAL 8004



black**
~RAL 9005

* The warranty covers gutters, downpipes and gutter and pipe fittings offered in the colours of the GAMRAT MAGNAT gutter systems. The warranty covers the colourfastness of the products (see the warranty form for details) and does not cover accessories (Page 24-27).

1. GUTTER



75	A	75
75	H	55
100	A	100
100	H	74
125	A	125
125	H	89

	copper	silver	brick-red	black	in a package /on a pallet
75 mm	326110310	329110310	323110310	-	165 pcs / 495 mb
100 mm	326710410	329710410	323710410	-	120 pcs / 480 mb
125 mm	326210410	329210410	323210410	321210410	105 pcs / 420 mb

2. GUTTER CONNECTOR



75	L	120
100	L	190
125	L	240

	copper	silver	brick-red	black	in a package /on a pallet
75 mm	326121000	329121000	323121000	-	30 / 1920 pcs
100 mm	326721000	329721000	323721000	-	10 / 640 pcs
125 mm	326221000	329221000	323221000	321221000	24 / 384 pcs

3. DROP OUTLET



75/63	L	160
75/63	Dz	63
75/63	B	-
100/63	L	264
100/63	Dz	63
100/63	B	-
100/90	L	264
100/90	Dz	90
100/90	B	-
125/90	L	300
125/90	Dz	90
125/90	B	-
125/110	L	300
125/110	Dz	110
125/110	B	-

	copper	silver	brick-red	black	in a package /on a pallet
75/63 mm	326122000	329122000	323122000	-	9 / 576 pcs
100/63 mm	326722300	329722300	323722300	-	6 / 192 pcs
100/90 mm	326722100	329722100	323722100	-	6 / 192 pcs
125/90 mm	326222100	329222100	323222100	321222100	12 / 144 pcs
125/110 mm	326222000	329222000	323222000	-	12 / 144 pcs

4. INNER CORNER



75	L1	151
75	L2	59
100	L1	199
100	L2	75
125	L1	247
125	L2	96

	copper	silver	brick-red	black	in a package /on a pallet
75 mm	326123180	329123180	323123180	-	6 / 384 pcs
100 mm	326723180	329723180	323723180	-	6 / 192 pcs
125 mm	326223180	329223180	323223180	321223180	10 / 160 pcs

5. OUTER CORNER



75	L1	161
75	L2	69
100	L1	210
100	L2	91
125	L1	265
125	L2	112

	copper	silver	brick-red	black	in a package /on a pallet
75 mm	326124180	329124180	323124180	-	6 / 384 pcs
100 mm	326724180	329724180	323724180	-	6 / 192 pcs
125 mm	326224180	329224180	323224180	321224180	10 / 160 pcs

6. SUPPORT BRACKET



75	H	83
75	C	-
75	A	-
100	H	112
100	C	-
100	A	-
125	H	137
125	C	-
125	A	-

	copper	silver	brick-red	black	in a package /on a pallet
75 mm	326125000	329125000	323125000	-	60 / 3840 pcs
100 mm	326725000	329725000	323725000	-	30 / 1920 pcs
125 mm	326225000	329225000	323225000	321225000	45 / 1440 pcs

7. GUTTER STOP END RIGHT



75	L	30
100	L	36
125	L	50

	copper	silver	brick-red	black	in a package /on a pallet
75 mm	326126100	329126100	323126100	-	20 pcs / 3200 pcs
100 mm	326726100	329726100	323726100	-	10 pcs / 1600 pcs
125 mm	326226100	329226100	323226100	321226100	12 / 768 pcs

8. GUTTER STOP END LEFT



75	L	30
100	L	36
125	L	50

	copper	silver	brick-red	black	in a package /on a pallet
75 mm	326126200	329126200	323126200	-	20 pcs / 3200 pcs
100 mm	326726200	329726200	323726200	-	10 pcs / 1600 pcs
125 mm	326226200	329226200	323226200	321226200	12 / 768 pcs

9. UNIVERSAL STOP END



125	L	16
-----	---	----

	copper	silver	brick-red	black	in a package /on a pallet
125 mm	326226300	329226300	323226300	321226300	24 pcs / 3840 pcs

10. DOWNPIPE



63	Dz	63
90	Dz	90
110	Dz	110

	copper	silver	brick-red	black	in a package /on a pallet
63 mm	326410310	329410310	323410310	-	150 pcs / 450 mb
90 mm	326610410	329610410	323610410	321610410	48 pcs / 192 mb
110 mm	326510410	329510410	323510410	-	40 pcs / 160 mb

11. DOWNPIPE CONNECTOR



63	Dw	63,3
63	Dz	57,8
63	L	104
90	Dw	90,5
90	Dz	84,8
90	L	135
110	Dw	110,4
110	Dz	104,8
110	L	155

	copper	silver	brick-red	black	in a package /on a pallet
63 mm	326421000	329421000	323421000	-	15 pcs / 2400 pcs
90 mm	326621000	329621000	323621000	321621000	32 / 1024 pcs
110 mm	326521000	329521000	323521000	-	32 / 512 pcs

12. BEND 67,5°



63	Dw	63,3
63	Dz	59,4
63	α	67,5°
63	L1	-
63	L2	-
90	Dw	90,4
90	Dz	85,8
90	α	67,5°
90	L1	-
90	L2	-
110	Dw	110,4
110	Dz	150,3
110	α	67,5°
110	L1	-
110	L2	-

	copper	silver	brick-red	black	in a package /on a pallet
63 mm	326422100	329422100	323422100	-	12 / 768 pcs
90 mm	326622100	329622100	323622100	321622100	18 / 288 pcs
110 mm	326522100	329522100	323522100	-	18 / 216 pcs

13. DOUBLE SOCKET BEND 67,5°



63	Dw	63,3
63	α	67,5°
63	L1	-
63	L2	-
90	Dw	90,4
90	α	67,5°
90	L1	-
90	L2	-
110	Dw	110,4
110	α	67,5°
110	L1	-
110	L2	-

	copper	silver	brick-red	black	in a package /on a pallet
63 mm	326422110	329422110	323422110	-	8 / 512 pcs
90 mm	326622110	329622110	323622110	321622110	18 / 288 pcs
110 mm	326522110	329522110	323522110	-	12 / 144 pcs

14. PIPE SUPPORT



63	H	25
63	Dw	63
90	H	25
90	Dw	90
110	H	25
110	Dw	110

	copper	silver	brick-red	black	in a package /on a pallet
63 mm	326423000	329423000	323423000	-	30 pcs / 4800 pcs
90 mm	326623000	329623000	323623000	321623000	60 / 3840 pcs
110 mm	326523000	329523000	323523000	-	60 / 3840 pcs

15. CLEAN-OUT



110	Dw	110,4
110	Dz	104,8
110	H	295

	copper	silver	brick-red	black	in a package /on a pallet
110 mm	326525100	329525100	323525100	-	9 / 144 pcs

16. BRANCH 67,5°



90/90	H	264
90/90	Dw	90,4
90/90	Dz	85,8
90/90	Dw2	90,4
110/63	H	260
110/63	Dw	110,4
110/63	Dz	104,8
110/63	Dw2	63,3
110/110	H	310
110/110	Dw	110,4
110/110	Dz	104,8
110/110	Dw2	110,4

	copper	silver	brick-red	black	in a package /on a pallet
90/90 mm	326624300	329624300	323624300	321624300	12 / 192 pcs
110/63 mm	326524200	329524200	323524200	-	10 / 160 pcs
110/110 mm	326524100	329524100	323524100	-	5 / 80 pcs

17. REDUCER



110/63	Dw	110,4
110/63	Dz	57,8
110/63	H	165

	copper	silver	brick-red	black	in a package /on a pallet
110/63 mm	326526000	329526000	323526000	-	12 / 384 pcs

18. REVERSE REDUCER



63/90	Dw	63,4
63/90	Dz	90
63/90	H	120

	copper	silver	brick-red	black	in a package /on a pallet
63/90 mm	326626100	329626100	323626100	-	12 / 768 pcs



GUTTER SYSTEMS
PVC

PVC

10-YEAR WARRANTY*

Gamrat PVC gutter systems are guaranteed to reliably drain water from any roof. They have been specially designed for the harsh, variable climatic conditions found in Poland and other countries. They have been tried and tested in practice and have been appreciated by contractors and investors. They have found their place on millions of roofs. The essence of the success of the systems is their excellent quality, durability, tightness, exceptional mechanical strength, resistance to changing atmospheric conditions, including temperature changes, industrial pollution or acid rains. Gamrat PVC gutters are distinguished primarily by their deep parabolic shape with characteristic curves, which strengthens and stiffens the gutter and, together with the perfectly smooth surface of the gutter ensures an excellent flow capacity of the system. Gamrat PVC gutter systems have been manufactured by GAMRAT SA for over 25 years. The product is constantly improved to better meet the expectations of users.


A proven material

PVC has been used successfully in the construction industry for decades. Products made from it ensure anti-corrosive properties and exceptional resistance to aggressive atmospheric agents.


High load carrying capacity

Gutter brackets with an I-shaped profile made of high-quality PVC provide the system with exceptional load carrying capacity, e.g. due to the weight of snow caps and icicles.


Reliable in extreme temperatures

Gamrat PVC systems maintain their high performance parameters at both high and low temperatures.


Quick and easy installation

The system components have been designed to make the installation of a gutter system quick and easy – cost effective for the investor and efficient for the contractor.


No painting required

Offered in the most popular and durable colours, they do not require painting, giving those who choose them great aesthetics and the satisfaction of knowing they have made the right choice.


Deep, high-capacity gutter

Rarely seen, this deep gutter gives the system high capacity and throughput. Its traditional, stiffened shape provides the necessary rigidity.

reliable gutters manufactured
for over 25 years

**GAMRAT
PVC**

HIGH QUALITY MATERIAL

System components resistant to corrosion and aggressive external conditions

I-SECTION PROFILE

Exceptional load carrying capacity for the entire system

INSTALLATION SCHEME AND ASSORTMENT

The individual gutter sections are connected to the gutter fittings by snap-fitting with a rubber gasket. The connections between the downpipes and fittings are made as socket connections without gaskets.

We offer six GAMRAT PVC gutter systems.

SYSTEM	SYSTEM	SYSTEM	SYSTEM	SYSTEM	SYSTEM
75 /63	100 /63	100 /90	125 /90	125 /110	150 /110



COLOURS

The nearest RAL colours are shown. The colour range shown is only an approximate representation of the colours.



* The warranty covers gutters, downpipes and gutter and pipe fittings offered in the colours of the GAMRAT PVC gutter systems. The warranty covers the mechanical durability of the products (see the warranty form for details) and does not cover accessories (Page 24-27).

** Black is not available for the 150/110 system. Grey is only available for the 150/110 system.

1. GUTTER



75	A	75
75	H	55
100	A	100
100	H	74
125	A	125
125	H	89
150	A	150
150	H	108

	dark brown	white	graphite	black	grey	in a package /on a pallet
75 mm (2 m)	315110210	312110210	314110210	316110210	-	165 pcs / 330 mb
75 mm (3 m)	315110310	312110310	314110310	316110310	-	165 pcs / 495 mb
75 mm (4 m)	315110410	312110410	314110410	316110410	-	165 pcs / 660 mb
100 mm (3 m)	315710310	312710310	314710310	316710310	-	120 pcs / 360 mb
100 mm (4 m)	315710410	312710410	314710410	316710410	-	120 pcs / 480 mb
125 mm (3 m)	315210310	312210310	314210310	316210310	-	105 pcs / 315 mb
125 mm (4 m)	315210410	312210410	314210410	316210410	-	105 pcs / 420 mb
150 mm (3 m)	315310310	312310310	314310310	-	317310310	60 pcs / 180 mb
150 mm (4 m)	315310410	312310410	314310410	-	317310410	60 pcs / 240 mb

2. GUTTER CONNECTOR



75	L	125
100	L	190
125	L	240
150	L	240

	dark brown	white	graphite	black	grey	in a package /on a pallet
75 mm	315121000	312121000	314121000	316121000	-	30 pcs / 1920 pcs
100 mm	315721000	312721000	314721000	316721000	-	10 / 640 pcs
125 mm	315221000	312221000	314221000	316221000	-	24 / 384 pcs
150 mm	315321000	312321000	314321000	-	317321000	22 / 352 pcs

3. DROP OUTLET



75/63	L	160
75/63	Dz	63
75/63	B	-
100/63	L	264
100/63	Dz	63
100/63	B	-
100/90	L	264
100/90	Dz	90
100/90	B	-
125/90	L	300
125/90	Dz	90
125/90	B	-
125/110	L	300
125/110	Dz	110
125/110	B	-
150/110	L	300
150/110	Dz	110
150/110	B	-

	dark brown	white	graphite	black	grey	in a package /on a pallet
75/63 mm	315122000	312122000	314122000	316122000	-	9 / 576 pcs
100/63 mm	315722300	312722300	314722300	316722300	-	6 / 192 pcs
100/90 mm	315722100	312722100	314722100	316722100	-	6 / 192 pcs
125/90 mm	315222100	312222100	314222100	316222100	-	12 / 144 pcs
125/110 mm	315222000	312222000	314222000	316222000	-	12 / 144 pcs
150/110 mm	315322000	312322000	314322000	-	317322000	6 / 72 pcs

4. INNER CORNER



75	L1	151
75	L2	59
100	L1	199
100	L2	75
125	L1	247
125	L2	96
150	L1	271
150	L2	92

	dark brown	white	graphite	black	grey	in a package /on a pallet
75 mm	315123180	312123180	314123180	316123180	-	6 / 384 pcs
100 mm	315723180	312723180	314723180	316723180	-	6 / 192 pcs
125 mm	315223180	312223180	314223180	316223180	-	10 / 160 pcs
150 mm	315323180	312323180	314323180	-	317323180	8 / 128 pcs

5. OUTER CORNER



75	L1	151
75	L2	59
100	L1	199
100	L2	75
125	L1	247
125	L2	96
150	L1	271
150	L2	92

	dark brown	white	graphite	black	grey	in a package /on a pallet
75 mm	315124180	312124180	314124180	316124180	-	6 / 384 pcs
100 mm	315724180	312724180	314724180	316724180	-	6 / 192 pcs
125 mm	315224180	312224180	314224180	316224180	-	10 / 160 pcs
150 mm	315324180	312324180	314324180	-	317324180	8 / 128 pcs

6. SUPPORT BRACKET



75	H	83
75	C	-
75	A	-
100	H	112
100	C	-
100	A	-
125	H	137
125	C	-
125	A	-
150	H	158
150	C	-
150	A	-

	dark brown	white	graphite	black	grey	in a package /on a pallet
75 mm	315125000	312125000	314125000	316125000	-	60 / 3840 pcs
100 mm	315725000	312725000	314725000	316725000	-	30 / 1920 pcs
125 mm	315225000	312225000	314225000	316225000	-	45 / 1440 pcs
150 mm	315325000	312325000	314325000	-	317325000	35 / 1120 pcs

7. GUTTER STOP END RIGHT



75	L	30
100	L	36
125	L	50
150	L	50

	dark brown	white	graphite	black	grey	in a package /on a pallet
75 mm	315126100	312126100	314126100	316126100	-	20 pcs / 3200 pcs
100 mm	315726100	312726100	314726100	316726100	-	10 pcs / 1600 pcs
125 mm	315226100	312226100	314226100	316226100	-	12 / 768 pcs
150 mm	315326100	312326100	314326100	-	317326100	10 / 640 pcs

8. GUTTER STOP END LEFT



75	L	30
100	L	36
125	L	50
150	L	50

	dark brown	white	graphite	black	grey	in a package /on a pallet
75 mm	315126200	312126200	314126200	316126200	-	20 pcs / 3200 pcs
100 mm	315726200	312726200	314726200	316726200	-	10 pcs / 1600 pcs
125 mm	315226200	312226200	314226200	316226200	-	12 / 768 pcs
150 mm	315326200	312326200	314326200	-	317326200	10 / 640 pcs

9. UNIVERSAL STOP END



125	L	16
-----	---	----

	dark brown	white	graphite	black	grey	in a package /on a pallet
125 mm	315226300	312226300	314226300	316226300	-	24 pcs / 3840 pcs

10. DOWNPIPE



63	Dz	63
90	Dz	90
110	Dz	110

	dark brown	white	graphite	black	grey	in a package /on a pallet
63 mm (dl.)	315410210	312410210	314410210	316410210	-	150 pcs / 300 mb
63 mm (dl.)	315410310	312410310	314410310	316410310	-	150 pcs / 450 mb
63 mm (dl.)	315410410	312410410	314410410	316410410	-	150 pcs / 600 mb
90 mm (dl.)	315610310	312610310	314610310	316610310	-	60 pcs / 180 mb
90 mm (dl.)	315610410	312610410	314610410	316610410	-	60 pcs / 240 mb
110 mm (dl.)	315510210	312510210	314510210	316510210	317510210	45 pcs / 90 mb
110 mm (dl.)	315510310	312510310	314510310	316510310	317510310	45 pcs / 135 mb
110 mm (dl.)	315510410	312510410	314510410	316510410	317510410	45 pcs / 180 mb

11. DOWNPIPE CONNECTOR



63	Dw	63,3
63	Dz	57,8
63	L	104
90	Dw	90,5
90	Dz	84,8
90	L	135
110	Dw	110,4
110	Dz	104,8
110	L	155

	dark brown	white	graphite	black	grey	in a package /on a pallet
63 mm	315421000	312421000	314421000	316421000	-	15 pcs / 2400 pcs
90 mm	315621000	312621000	314621000	316621000	-	32 / 1024 pcs
110 mm	315521000	312521000	314521000	316521000	317521000	32 / 512 pcs

12. BEND 67,5°



63	Dw	63,3
63	Dz	59,4
63	α	67,5°
63	L1	-
63	L2	-
90	Dw	90,4
90	Dz	85,8
90	α	67,5°
90	L1	-
90	L2	-
110	Dw	110,4
110	Dz	150,3
110	α	67,5°
110	L1	-
110	L2	-

	dark brown	white	graphite	black	grey	in a package /on a pallet
63 mm	315422100	312422100	314422100	316422100	-	12 / 768 pcs
90 mm	315622100	312622100	314622100	316622100	-	18 / 288 pcs
110 mm	315522100	312522100	314522100	316522100	317522100	18 / 216 pcs

13. DOUBLE SOCKET BEND 67,5°



63	Dw	63,3
63	α	67,5°
63	L1	-
63	L2	-
90	Dw	90,4
90	α	67,5°
90	L1	-
90	L2	-
110	Dw	110,4
110	α	67,5°
110	L1	-
110	L2	-

	dark brown	white	graphite	black	grey	in a package /on a pallet
63 mm	315422110	312422110	314422110	316422110	-	8 / 512 pcs
90 mm	315622110	312622110	314622110	316622110	-	18 / 288 pcs
110 mm	315522110	312522110	314522110	316522110	317522110	12 / 144 pcs

14. PIPE SUPPORT



63	H	25
63	Dw	63
90	H	25
90	Dw	90
110	H	25
110	Dw	110

	dark brown	white	graphite	black	grey	in a package /on a pallet
63 mm	315423000	312423000	314423000	316423000	-	30 pcs / 4800 pcs
90 mm	315623000	312623000	314623000	316623000	-	60 / 3840 pcs
110 mm	315523000	312523000	314523000	316523000	317523000	60 / 3840 pcs

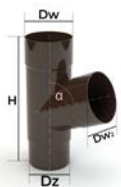
15. CLEAN-OUT



110	Dw	110,4
110	Dz	104,8
110	H	295

	dark brown	white	graphite	black	grey	in a package /on a pallet
110 mm	315525100	312525100	314525100	316525100	317525100	9 / 144 pcs

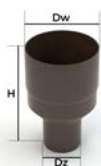
16. BRANCH 67,5°



90/90	H	264
90/90	Dw	90,4
90/90	Dz	85,8
90/90	Dw2	90,4
110/63	H	260
110/63	Dw	110,4
110/63	Dz	104,8
110/63	Dw2	63,3
110/110	H	310
110/110	Dw	110,4
110/110	Dz	104,8
110/110	Dw2	110,4

	dark brown	white	graphite	black	grey	in a package /on a pallet
90/90/90 mm	315624300	312624300	314624300	316624300	-	12 / 192 pcs
110/110/63 mm	315524200	312524200	314524200	316524200	-	10 / 160 pcs
110/110/110 mm	315524100	312524100	314524100	316524100	317524100	5 / 80 pcs

17. REDUCER



110/63	Dw	110,4
110/63	Dz	57,8
110/63	H	165

	dark brown	white	graphite	black	grey	in a package /on a pallet
110/63 mm	315526000	312526000	314526000	316526000	-	12 / 384 pcs

18. REVERSE REDUCER



63/90	Dw	63,4
63/90	Dz	90
63/90	H	120

	dark brown	white	graphite	black	grey	in a package /on a pallet
63/90 mm	315626100	312626100	314626100	316626100	-	12 / 768 pcs

ACCESORIES

Accessories for GAMRAT PVC and GAMRAT MAGNAT gutter systems

ALUMINIUM SUPPORT FOR STEEL HOOK



H	43,5
L	20

PVC

MAGNAT

in a package

310999010

50 pcs

STEEL HOOK FOR PIPE SUPPORT - SHORT PLUG



PVC

MAGNAT

in a package

L-120 310991100 100 pcs

L-140 310991200 100 pcs

L-160 310991300 100 pcs

L-180 310991400 100 pcs

L-200 310991500 100 pcs

L-220 310991600 100 pcs

L-250 310991700 100 pcs

L-300 310991800 100 pcs

STEEL HOOK FOR PIPE SUPPORT - LONG PLUG



PVC

MAGNAT

in a package

L-120 310991100 100 pcs

L-140 310991200 100 pcs

L-160 310991300 100 pcs

L-180 310991400 100 pcs

L-200 310991500 100 pcs

L-220 310991600 100 pcs

L-250 310991700 100 pcs

L-300 310991800 100 pcs

CLEAN-OUT SPOUT



PVC

MAGNAT

in a package

	dark brown
do rewizji 110	315525510

graphite
314525510

32 pcs

CLEAN-OUT SIEVE - SPARE



PVC

MAGNAT

in a package

do rewizji 110

315525410

1 pcs

CLEAN-OUT SCREWED CAP- SPARE

PVC

MAGNAT



	dark brown [PVC]	white [PVC]	graphite [PVC]	black [PVC]	copper [MAGNAT]	silver [MAGNAT]	brick-red [MAGNAT]	black [MAGNAT]	in a package
do rewizji 110	315525300	312525300	314525300	316525300	326525300	329525300	323525300	321525300	1 pcs

SPARE GASKET FOR GUTTER FITTINGS - TYPE A & B

PVC

MAGNAT



75	L	125
100	L	175
125	L	216
150	L	255

type A (for semi-circular groove)	type B (for rectangular groove)	in a package
75 mm 310932140	310932150	48 pcs
100 mm -	310932450	48 pcs
125 mm 310932240	310932250	48 pcs
150 mm 310932340	-	48 pcs

PIPE ADAPTOR - BLACK RUBBER

PVC

MAGNAT



90/110	Dw	91
90/110	Dz	111
90/110	L	50

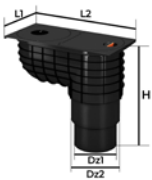
in a package

90/100 mm	310933100	1 pcs
-----------	-----------	-------

RAINWATER GULLY - FULL SET

PVC

MAGNAT



L1	160
L2	325
Dz1	110
Dz2	125
H	259

black

dark brown

szary

in a package
/on a pallet

310940000	310941000	310942000	1/100 pcs
-----------	-----------	-----------	-----------

GASKET LUBRICANT

PVC

MAGNAT



in a package

310931010	1 pcs
-----------	-------

STRAIGHT SUPPORT BRACKET - METAL

PVC



75	L	261
100	L	-
125	L	353
150	L	383

dark brown

black

graphite

in a package
/on a pallet

75 mm 310921110	310921310	310921210	50 pcs
125 mm 310922110	310922310	310922210	50 pcs
150 mm 310923110	-	310923210	25 pcs

PIPE SUPPORT - METAL

PVC



	dark brown	white	black	graphite	in a package /on a pallet
90 mm	310912110	310912410	310912210	310912310	40 pcs
110 mm	310913110	310913410	310913210	310913310	30 pcs

PIPE SUPPORT FOOT FOR LAYER BOARD - METAL

PVC



	dark brown	white	graphite	black	in a package /on a pallet
	310934110	310934410	310934210	310934310	1 pcs

INTERNAL & EXTERNAL CORNERS WITH ANGLES OTHER THAN 90°

PVC

ON REQUEST



	dark brown	white	graphite	black	grey	in a package /on a pallet
75 mm	31512 x y z 0*	31212 x y z 0*	31412 x y z 0*	31612 x y z 0*	-	1 pcs
100 mm	31572 x y z 0*	31272 x y z 0*	31472 x y z 0*	31672 x y z 0*	-	1 pcs
125 mm	31522 x y z 0*	31222 x y z 0*	31422 x y z 0*	31622 x y z 0*	-	1 pcs
150 mm	31532 x y z 0*	31232 x y z 0*	31432 x y z 0*	-	-	1 pcs

NON-STANDARD BENDS WITH ANGLES OTHER THAN 67.5°

PVC

ON REQUEST



	dark brown	white	graphite	black	grey	in a package /on a pallet
63 mm	315422200	312422200	314422200	316422200	-	1 pcs
90 mm	315622200	312622200	314622200	316622200	-	1 pcs
110 mm	315522200	312522200	314522200	316522200	-	1 pcs

NON-STANDARD BRANCHES 67.5°

PVC

ON REQUEST



	dark brown	white	graphite	black	grey	in a package /on a pallet
63/63/63 mm	315424510	312424510	314424510	316424510	-	1 pcs

DOWNPIPE REDUCER

PVC

ON REQUEST



	dark brown	white	graphite	black	grey	in a package /on a pallet
110/90 mm	315526200	312526200	314526200	316526200	-	1 pcs

* The letters x; y; z specify the type and angle of the corner. Type: x = 3 – internal corner; x = 4 – external corner

Corner angle in degrees	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175
y	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
z	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

Corners are made on request in increments of 5 degrees

INTERNAL & EXTERNAL CORNERS WITH ANGLES OTHER THAN 90°

MAGNAT

ON REQUEST



	copper	silver	brick-red	black	in a package /on a pallet
75 mm	32612xyz0*	32912xyz0*	32312xyz0*	32112xyz0*	1 pcs
100 mm	32672xyz0*	32972xyz0*	32372xyz0*	32172xyz0*	1 pcs
125 mm	32622xyz0*	32922xyz0*	32322xyz0*	32122xyz0*	1 pcs

NON-STANDARD BENDS WITH ANGLES OTHER THAN 67.5°

MAGNAT

ON REQUEST



	copper	silver	brick-red	black	in a package /on a pallet
63 mm	326422200	329422200	323422200	321422200	1 pcs
90 mm	326622200	329622200	323622200	321622200	1 pcs
110 mm	326522200	329522200	323522200	321522200	1 pcs

NON-STANDARD BRANCHES 67.5°

MAGNAT

ON REQUEST



	copper	silver	brick-red	black	in a package /on a pallet
63/63/63 mm	326424510	329424510	323424510	321424510	1 pcs

DOWNPIPE REDUCER

MAGNAT

ON REQUEST



	copper	silver	brick-red	black	in a package /on a pallet
110/90 mm	326526200	329526200	323526200	321526200	1 pcs

* The letters x; y; z specify the type and angle of the corner. Type: x = 3 – internal corner; x = 4 – external corner

Corner angle in degrees	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175
y	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3
z	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

Corners are made on request in increments of 5 degrees



SOFFITS

SOFFITS

25-YEAR WARRANTY*

The roof of a house really starts to look impressive when it is fully finished. Gamrat soffits are an excellent solution for the durable and aesthetic finishing of the eaves, i.e. the elements of the roof structure that extend beyond the outline of the house. Matching the colours of the guttering, roofing as well as windows and doors, they create a cohesive whole, giving the whole building a unique character. GAMRAT PVC soffits provide excellent protection for the building's eaves against rain and other adverse weather conditions. The special construction and perforation used in our products also guarantee proper ventilation of the roof. A well-made soffit prevents insects and animals such as martens or mice from getting under the roof.


Full roof ventilation

Special perforated panels allow air to pass through, providing full roof ventilation.


Mould- and fungus-resistant

The soffit is completely resistant to moisture, moulds and fungi.


No maintenance or painting required

This system requires no additional maintenance or painting, unlike traditional roof finishing methods.


Quick and easy installation

The ease and speed of installation is a result of the soffit's carefully matched components. The light weight allows the soffit to be assembled into lightweight structures.

COLOURS

The nearest RAL colours are shown. The colour range shown is only an approximate representation of the colours.

WOOD-GRAIN SOFFIT


golden oak board**



walnut board**



winchester oak**



mahogany**

TRADITIONAL SOFFIT

 white
~RAL 9010

 brown**
~RAL 8016

 ciemnobrown**
~RAL 8019

 black**
~RAL 9005

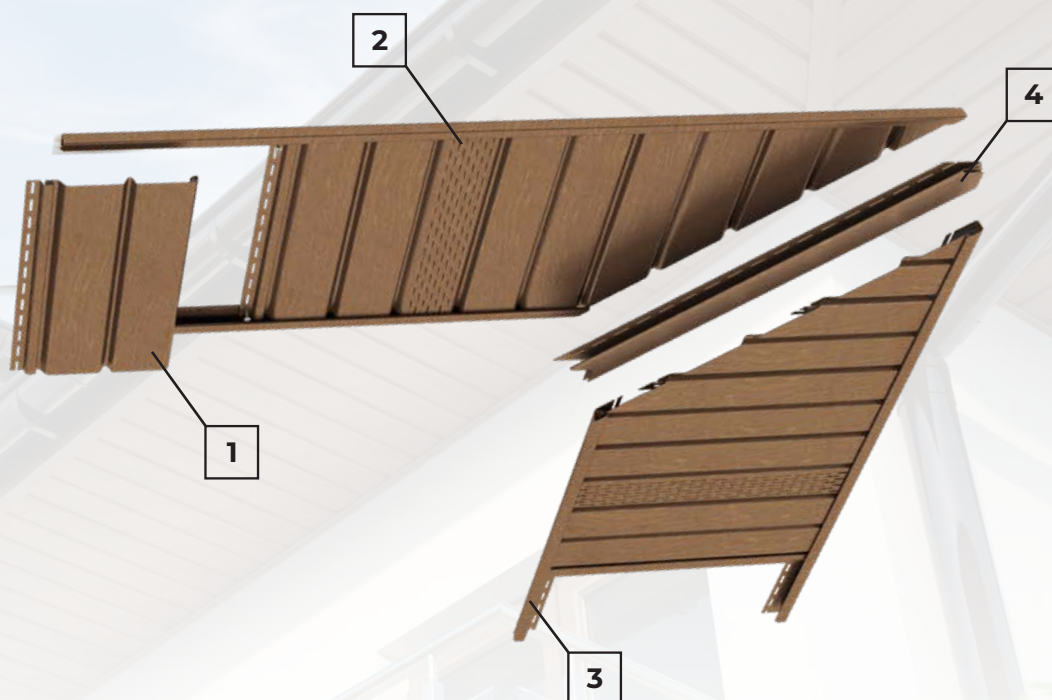
 graphite**
~RAL 7016

 grey**
~RAL 7040

*The warranty covers the boards and trims. The warranty covers the mechanical durability of the products (see warranty-form for details). **Do not use in areas exposed to direct UV radiation.

INSTALLATION SCHEME AND ASSORTMENT

The individual elements of the soffit system are attached to the laths of the grid. The boards are snapped together and the trims are overlapped.



1. FULL PVC SOFFIT TRADITIONAL

TRADITIONAL

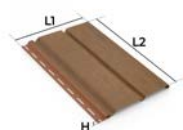


L1	203
L2	3000
H	12

	white	black	brown	dark brown	graphite	grey	in a package
length 3 m	340141133	341141033	340541033	341041033	340841033	341241033	26 pcs / 15,38 m ²

1. FULL PVC SOFFIT WOOD-GRAIN

WOOD-GRAIN



L1	203
L2	3000
H	12

	golden oak board	walnut board	mahogany	winchester oak	in a package
length 3 m	361711133	361811133	360311133	362111133	26 pcs / 15,38 m ²

2. PERFORATED PVC SOFFIT TRADITIONAL

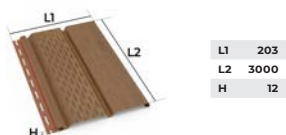
TRADITIONAL



	white	black	brown	dark brown	graphite	grey	in a package
length 3 m	340142133	341142033	340542033	341042033	340842033	341242033	26 pcs / 15,83 m2

2. PERFORATED PVC SOFFIT WOOD-GRAIN

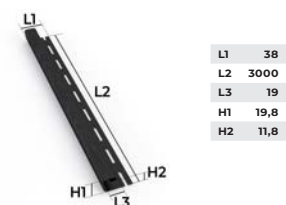
WOOD-GRAIN



	golden oak board	walnut board	mahogany	winchester oak	in a package
length 3 m	361712133	361812133	360312133	362112133	26 pcs / 15,83 m2

3. J-TYPE PVC CHANNEL TRADITIONAL

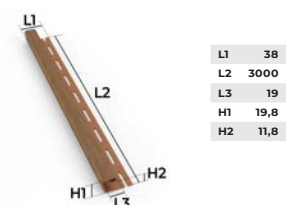
TRADITIONAL



	white	black	brown	dark brown	graphite	grey	in a package
length 3 m	340122033	341122033	340522033	341022033	340822033	341222033	50 pcs / 150 mb

3. J-TYPE PVC CHANNEL WOOD-GRAIN

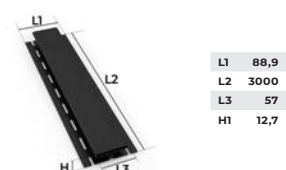
WOOD-GRAIN



	golden oak board	walnut board	mahogany	winchester oak	in a package
length 3 m	361721133	361821133	360321133	362121133	50 pcs / 150 mb

4. H-TYPE PVC CHANNEL TRADITIONAL

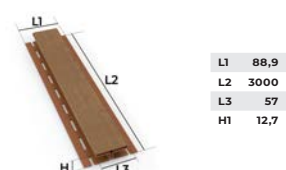
TRADITIONAL



	white	black	brown	dark brown	graphite	grey	in a package
length 3 m	340124033	341124033	340524033	341024033	340824033	341224033	18 pcs / 54 mb

4. H-TYPE PVC CHANNEL WOOD-GRAIN

WOOD-GRAIN



	golden oak board	walnut board	mahogany	winchester oak	in a package
length 3 m	361722133	361822133	360322133	362122133	18 pcs / 54 mb



LINEAR DRAINAGE SYSTEMS

DRAINAGE SYSTEMS

The DrenGam linear drainage system is an excellent complement to the GAMRAT guttering systems, indispensable wherever rainwater accumulates. Thanks to this system, the foundations and walls of buildings are protected from dampness and the area around them is free of puddles and mud.

DrenGam linear drainage systems are ideal for storm surges and heavy hydraulic loads. It is a perfect solution for customers looking for an economical, aesthetic and durable drainage system around a house, in a park, garden, pavement, car park, driveway and in front of a garage. Among the undoubted advantages of the DrenGam system that speak in favour of its purchase are its resistance to corrosion, chemicals and freezing. The ribbed channel design and numerous side chambers contribute to optimum strength and durability under load and during installation.

A15



C250

High structural strength

Wide range of applicable load classes from A15 to C250.

PP



High product quality

The use of channels made from high-quality PP material, which is resistant to corrosion, chemicals and cyclical freezing and thawing.



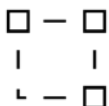
Quick and easy installation

Easy to install without the need for special tools. The light weight of the channels and accessories makes installation easier.



Exceptional mechanical resistance

The specially designed structure of the polymer composite channels provides exceptionally high resistance to mechanical shocks at high and low temperatures.



Flexible structure

Allows lateral connection of channels for quick and easy installation

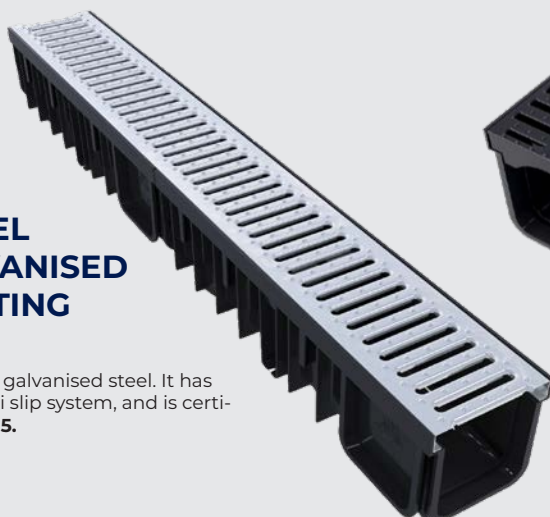


Minimised maintenance

Smooth, non-porous channel surface prevents the formation of deposits.

PP CHANNEL WITH GALVANISED STEEL GRATING

The grate is made of galvanised steel. It has cross ribs and an anti slip system, and is certified for **load class A15**.

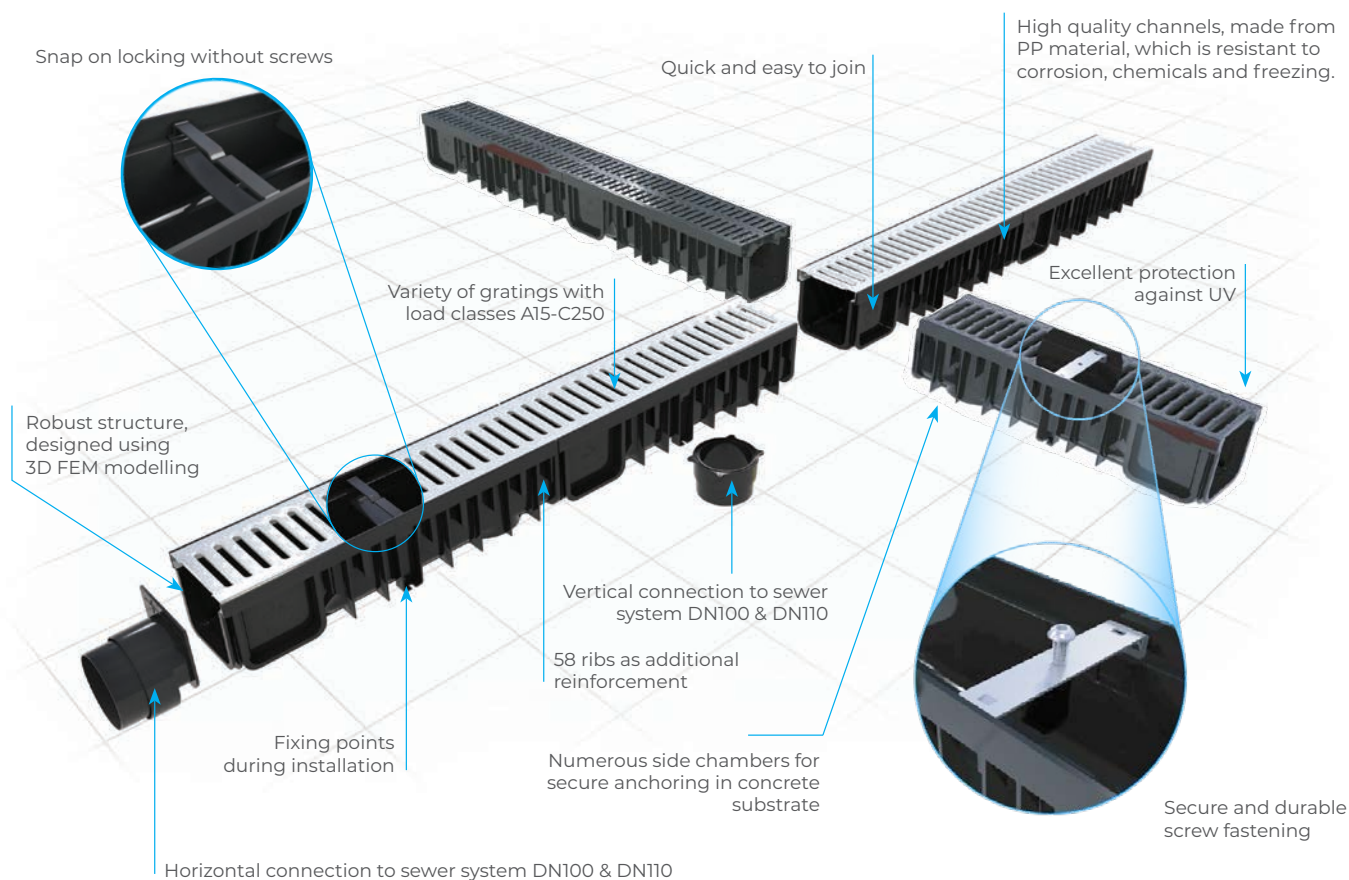


PP CHANNEL WITH POLYAMIDE GRATE

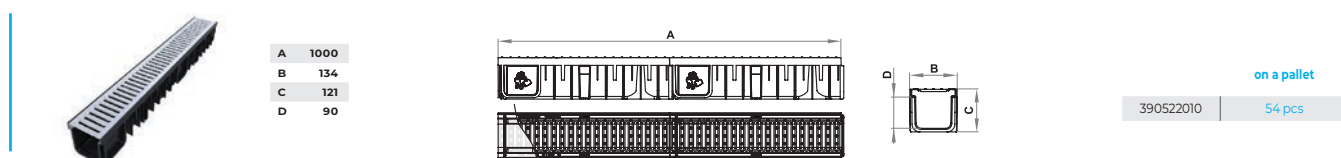
The grating is made of polyamide, which guarantees high rigidity, strength and dimensional stability. It is certified for **load class C250**



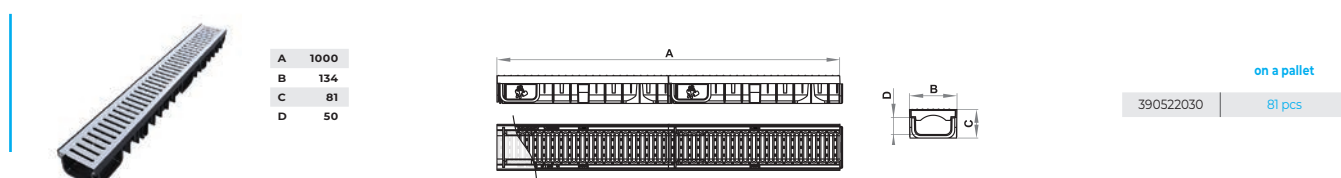
INSTALLATION SCHEME AND ASSORTMENT



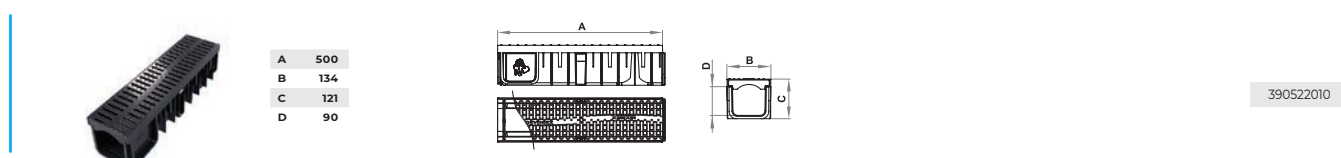
DRENGAM 130/90 - PP CHANNELL WITH GALVANISED STEEL GRATING – 1 M LONG



DRENGAM 130/50 - PP CHANNELL WITH GALVANISED STEEL GRATING – 1 M LONG



DRENGAM 130/90 - PP CHANNELL WITH POLYAMIDE GRATING – 0.5 M LONG

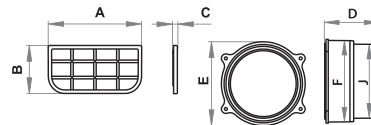


DRENGAM GARAGE PACK 130/90 - 3 X 1 M, GALVANISED STEEL GRATING**TWO END CAPS AND OUTLET SOCKET INCLUDED**

on a pallet

390711010

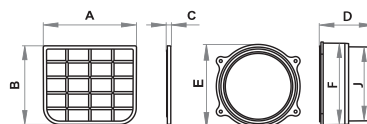
20 pcs

DRENGAM 130/50 SET - 2 END CAPS AND SOCKET P Ø100/Ø110

in a package

390302210

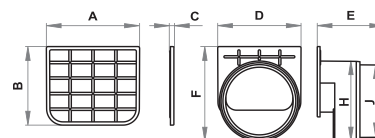
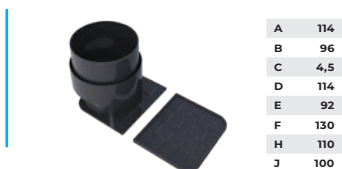
20 pcs

DRENGAM 130/90 SET - 2 END CAPS AND SOCKET P Ø100/Ø110

in a package

390302200

20 pcs

DRENGAM 130/90 SET - END CAP AND END CAP WITH OUTLET PIPE H Ø100/Ø110

in a package

390302300

16 pcs



RAINWATER COLLECTION SYSTEMS

WATER STORAGE

EasyGam water storage systems are the perfect alternative to unsightly barrels or underground tanks, which are unsuitable for small gardens. EasyGam tanks have a modern design and are connected to the downpipe of an already installed or existing guttering system.

Rainwater is much more beneficial to garden plants than tap water, due to its softness, lack of chlorine and optimal temperature. Among other things, it is softer, chlorine free and has an optimal temperature.



Modern design

Highly aesthetic tanks with capacities ranging from 210 to 440 litres. Available in 3 of the most popular colours.



Simple design

Innovative and simple design (also available in a fully automatic version). They help to collect rainwater without unnecessary problems.

SYSTEM VERSIONS AND COMPONENTS OFFERED

The rainwater storage system is available in two versions.

DOWNSPOUT OUTLET

The EasyGam system, with a clean-out spout mounted in a 110 mm access pipe, is a very convenient and simple way of collecting rainwater. Its installation and removal is extremely easy and quick. Once the diverter has been removed from the access pipe, the rainwater is drained out through the entire cross-section of the downpipe (no narrowing).



RAINWATER DIVERTER*

The EasyGam system with a rainwater diverter is designed to collect rainwater from 90 mm and 110 mm downpipes. It has an innovative, simple design and is fully self-acting. Once the tank is full, the excess water is discharged through a downpipe into the sewer or through a shoe onto the ground. The connection between the diverter and the tank is made by means of a flexible hose with a seal.

CLEAN-OUT



DOWNSPOUT OUTLET

	dark brown	graphite	black	white
110	315525100	314525100	316525100	312525100

CLEAN-OUT SPOUT



DOWNSPOUT OUTLET

	dark brown	graphite
110	315525510	314525510

ZBIORNIK RAINCAN 210L



H 210 l H 928 mm

DOWNSPOUT OUTLET

	black
210 l	310944440

RAINWATER DIVERTER*



RAINWATER DIVERTER

	dark brown	graphite	black	in a package /on a pallet
110	315527000	314527000	316527000	15 m / 480 mb
90	315627000	314627000	316627000	20 m / 640 mb

CONNECTING HOSE Ø50 WITH SEAL



RAINWATER DIVERTER

50 cm	310944510
100 cm	310944520

AQUACAN TANK 440L | 360L | 210L



H

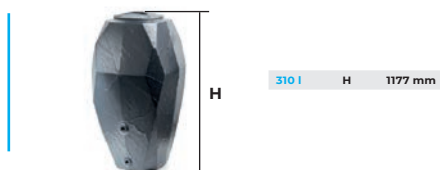
440 l	H	1260 mm
360 l	H	1200 mm
210 l	H	1183 mm

RAINWATER DIVERTER

	dark brown	antracyt
440 l	310945460	310944460
360 l	310945410	310944410
210 l	310945400	310944400

* Manufacturer: Gamrat S.A.

CANYON TANK 310L



RAINWATER DIVERTER

graphite

310 l 310944420

RAINWATER DIVERTER CAP



RAINWATER DIVERTER

dark
brown
315527500graphite
314527500black
316527500

TAP



ADDITIONAL ACCESSORIES

black
310944530

TANK BASE



ADDITIONAL ACCESSORIES

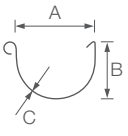
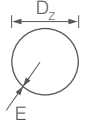
black
310944450



INSTALLATION INSTRUCTIONS

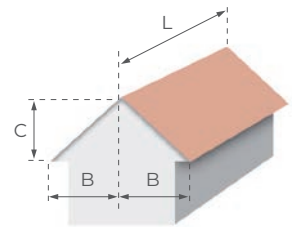
STALGAM - INSTALLATION

DIMENSIONS AND APPLICATION OF STALGAM GUTTER SYSTEMS




Gutter	Downpipe	A	B	C	D _z	E	System	Gutter developed width	Application
		125	84	0,6	87	0,6	125/87	280	single-family houses
		125	84	0,6	100	0,6	125/100	280	single-family houses
		150	89	0,6	100	0,6	150/100	333	large residential buildings, industrial and commercial facilities

CAPACITY OF STALGAM GUTTER SYSTEMS

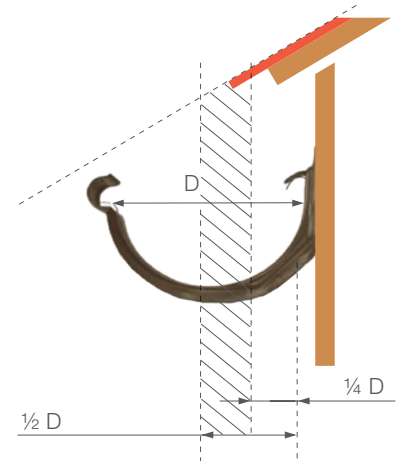
When choosing a gutter system, you need to make sure that the gutters and downpipes will collect water from the surface of your building's roof. To do this, calculate the 'effective roof area' to be drained by the system. Use the following formula to calculate the effective roof area: **S = (B + 0,5 C) x L**



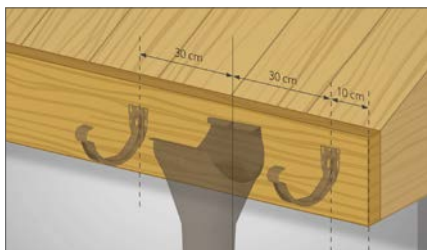
Maximum areas drained by gutter systems in square meters of the effective roof area (per one downpipe):

downpipe location	SYSTEM 125/87	SYSTEM 125/100	SYSTEM 150/100
	200	200	350
	100	100	175
	86	86	140

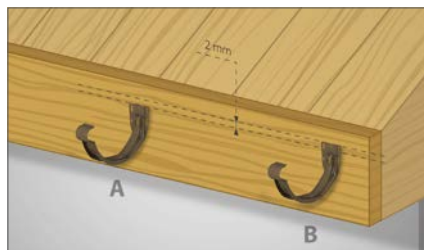
The recommended position of the gutter in relation to the roof slope and the position of the roof edge is shown on the drawing.



INSTALLATION SEQUENCE FOR STALGAM GUTTER SYSTEMS



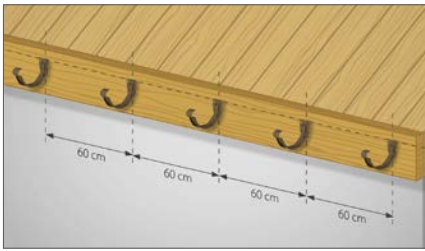
1. Mark the position of the drop outlet axis and the nearest brackets on the fascia board. Install the outermost bracket at a distance of approx. 10 cm from the edge of the roof.



2. Install the lowermost bracket. Install the bracket on the other side of the drop outlet 2 mm higher than the lowermost bracket. The brackets should be located at a distance of at least 20 cm from the joints.



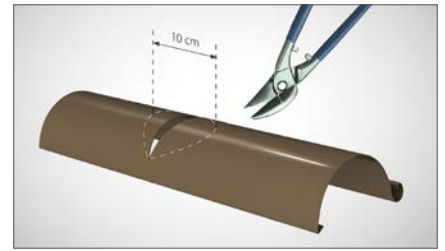
3. Install the brackets furthest away from the drop outlet with a minimum gradient of 3 mm/m (recommended gradient is 5 mm/m).



4. Mark the gradient line with a chalk line and install the intermediate brackets (at a spacing of approx. 60 cm). Install the brackets on both sides of the corner at the same height.



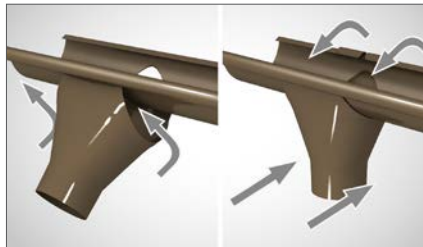
5. Place the gutter on the brackets and mark the position of the drop outlet.



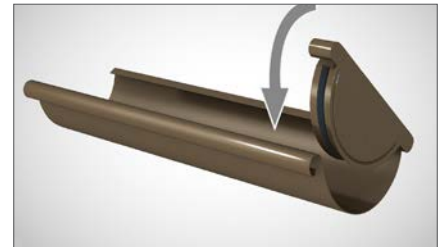
6. Cut a hole in the rain gutter with shears, first cutting a slot with a metal saw (hole diameter approx. 10 cm). Do not use an angle grinder for cutting.



7. In the lower part of the gutter, bend the edge of the hole downwards to provide better draining of water.



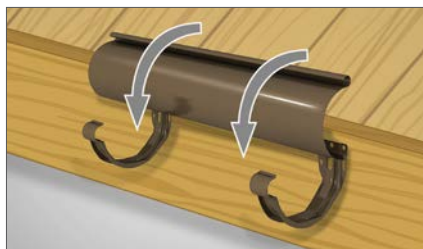
8. Place the drop outlet on the gutter. Insert the front edge of the drop outlet onto the front gutter lip. Then, turn the drop outlet up until its rear edge snaps onto the rear gutter lip.



9a. Install a universal stop end by sliding its rear section under the rear gutter lip, turning it down until its front edge snaps into the front gutter lip. Bend the rear tab of the stop end over the gutter. It is recommended that the stop end is additionally sealed with roofing sealant.



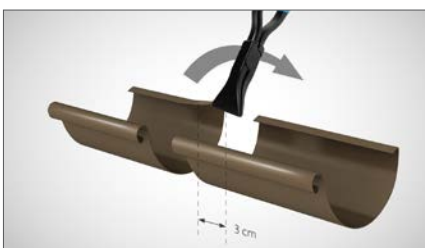
9b. Cut off the excess upper part of the stop end (best done before installation knowing whether the bottom will be on the right or left side of the gutter).



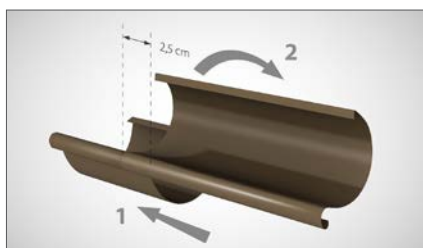
10. Install the gutters onto the brackets. Insert the rear lip of the gutter into the rear folds of the brackets, turn the gutter down and snap it into the brackets.



11a. To connect gutter sections and a gutter with gutter corners, use gutter connectors with EPDM gaskets.



11b. It is recommended that the gutters are installed with an overlap (approx. 2.5 cm) in accordance with the direction of the gutter slope. To achieve this, bend up the rear lip of the installed gutter over a distance of approx. 3 cm.



11c. Insert the front lip of the gutter to be installed into the front lip of the installed gutter to a depth of 2.5 cm, turn the gutter to be installed down into the installed gutter.



11d. Bend down the previously unbent gutter lip. Before joining the gutters, place a gutter connector on the installed gutter – it is difficult to install it on gutters that have already been joined.



12a. The gutter joint is sealed by installing a gutter connector on the gutter overlap. Snap the connector onto the rear edges of the elements connected and turn it upwards.



12b. Place the clamp on the front lips of the joined gutters. Bend up the locking tab.



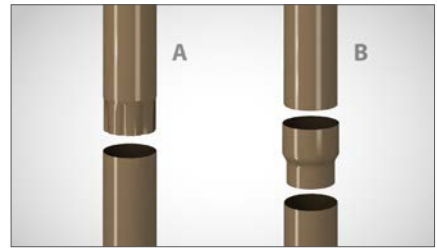
12c. Snap the latch into place and bend down the locking tab.



13. It is recommended that a gutter is connected with a corner in a similar way, overlapping with a gutter connector. In this case, the gutters are inserted into the corner and the joint is sealed with gutter fittings. When installing corners, it is recommended that the overlap is additionally sealed with a thin layer of universal roofing sealant.



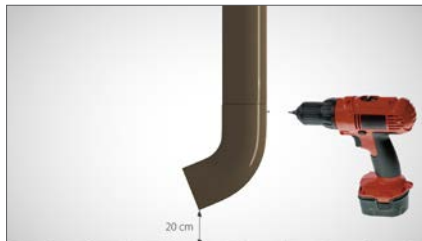
14. For overhanging eaves, connect a drop outlet to a downpipe using two bends and a downpipe section.



15. The downpipes have prefabricated crimps so that they can be connected without the need for pipe fittings. However, these fittings are available from us and may be required to join shorter downpipes that have previously been cut off. It is also possible to crimp a pipe using a crimping tool.



16. A downpipe is fixed to the wall using pipe clips with dowels of different lengths. The maximum distance between clips is 2 m. It is recommended that each downpipe is fixed to the wall with at least of two clips. The first clip is attached approximately 15 cm below the bend.



17. Use a downpipe shoe as an outlet. It is mechanically attached to the back of the downpipe, e.g. with a screw. The height of the shoe above the ground should be at least 20 cm.

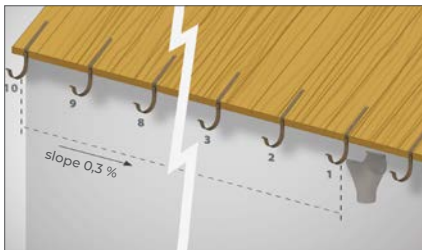


18. Alternatively, the downpipe can be inserted into a plastic settling tank fitted with a strainer and an anti odour flap and the rainwater can be discharged into the sewer system.

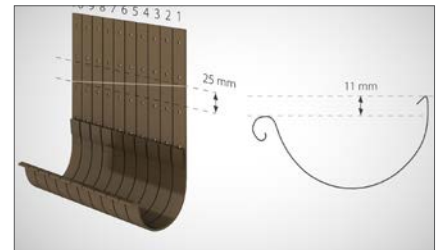


19. A rainwater diverter can be fitted to the downpipe to collect water for further use.

PREPARATION OF STRAIGHT BRACKETS FOR INSTALLATION:



1. Calculate the number of brackets required to install the gutters (from the highest bracket to the lowest bracket). Ensure that the brackets at the corners are installed at the same height.



2. Mark the bending points of the brackets. Number the brackets calculated in step 1 and mark the size of the slope (for 10 brackets this value is approx. 25 mm). The diagonal line marks the bending points of the brackets. The bracket with the number 1 is the lowest one and the bracket with the number 10 is the highest. Note that the front gutter lip is lower than the rear lip by approx. 11 mm.

PACKAGING

Gutter and pipe fittings are packed in cardboard boxes.

Gutters and downpipes are packed individually in plastic bags.

Gutters are packed in bundles of 5 pieces. The packs are prepared for dispatch on bulk pallets.

STORAGE AND TRANSPORT INSTRUCTIONS FOR STALGAM SYSTEMS

Outdoor storage of gutters and downpipes made of coated sheet metal should be avoided. If this is unavoidable, temporary outdoor storage of the products in their original packaging is permitted. In this case, the products must be covered (water-proof tarpaulin recommended) so as to ensure free access of air to the stored products. The maximum height of the stored products is 1 m. The products should be stored on a flat surface so that the first layer of products rests on the ground along its entire length. Items packed in cardboard boxes should be stored under a roof in dry rooms to protect the products from rain and moisture. Gutters and pipes should be transported horizontally. Products should be secured against displacement. Special attention should be paid to the area where the products touch each other (the use of cardboard spacers is recommended). Products in cardboard boxes should be transported under cover. Do not allow products to be locally crushed or thrown. When unloading, do not drag the products over the ground or other stored products to avoid damage.

NOTES

- Snow barriers should be used on slippery, steep roofs and when it is not possible to install a gutter below the plane that is an extension of the roof.
- The use of components from other manufacturers may affect the performance of the system. Only genuine Gamrat SA products are covered by the warranty.
- Gutters should be regularly cleaned of debris.

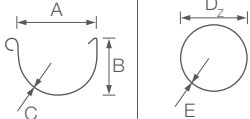
APPROVALS AND CERTIFICATIONS

- Polish Standard
PN-EN 612:2006; PN-EN 1462:2006

- Declaration of performance

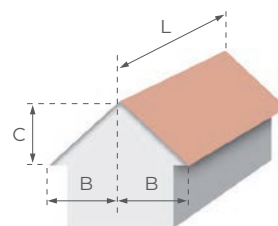
PVC & MAGNAT - INSTALLATION

DIMENSIONS AND APPLICATION OF PVC AND MAGNAT GUTTER SYSTEMS

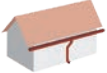
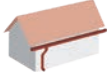

Gutter	Downpipe	A	B	C	D _z	E	System	Effective cross-section	Application
		75	55	1,2	63	1,6	75/63	33 cm ²	sheds, arbours, garages, terraces, balconies
		100	74	1,4	63	1,6	100/63	58 cm ²	sheds, arbours, terraces, balconies
		100	74	1,4	90	1,8	100/90		single-family houses
		125	89	1,5	63	1,6	125/63	91 cm ²	single-family houses, blocks of flats, small and medium-sized warehouses, public buildings, commercial and industrial facilities
		125	89	1,5	90	1,8	125/90		
		125	89	1,5	110	2,0	125/110		
		150	108	2,0	110	2,0	150/110	131 cm ²	large residential buildings, industrial and commercial facilities

CAPACITY OF PVC AND MAGNAT GUTTER SYSTEMS

When choosing a gutter system, you need to make sure that the gutters and downpipes will collect water from the surface of your building's roof. To do this, calculate the 'effective roof area' to be drained by the system. Use the following formula to calculate the effective roof area: **S = (B + 0,5 C) x L**

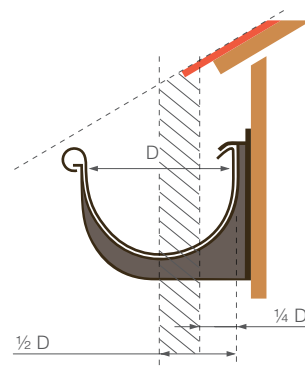


Maximum areas drained by gutter systems in square meters of the effective roof area (per one downpipe):

downpipe location	SYSTEM 75/63	SYSTEM 100/63	SYSTEM 100/90	SYSTEM 125/90	SYSTEM 125/110	SYSTEM 150/110
	95	110	148	205	240	370
	48	55	74	100	120	180
	42	46	50	80	95	145

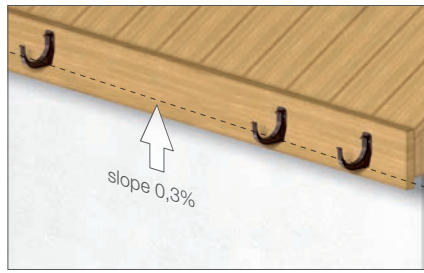
INSTALLATION SEQUENCE FOR PVC AND MAGNAT GUTTER SYSTEMS

The basis for the effective functioning of a plastic gutter system is the correct installation. Gamrat gutter systems are installed according to different principles than traditional systems. The main difference is the phenomenon of thermal changes in the length of plastic elements. When installing gutter systems, this phenomenon must be taken into account by using fittings to compensate for changes in the length of gutters and pipes. In the case of gutters, freedom of movement is achieved in the connections between the gutter and the gutter fittings, which are designed as gasket joints. In addition to supporting the gutter, plastic gutter brackets are used to guide the elongated gutter along its length. In the case of downpipes, compensation is provided by the clearance in the pipe-to-pipe fitting joint. Gutters should be installed so that they are not affected by snow sliding off the roof. The recommended position of the gutter in relation to the pitch of the roof and the position of the eaves is shown in the diagram to the right.

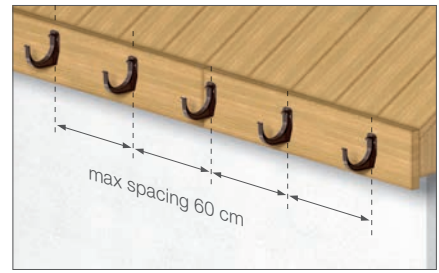




1. Mark the position of the drop outlet on the fascia board. Install gutter brackets on both sides of the drop outlet at a distance of 15 cm from the edge of the drop outlet. Fasten the brackets using a minimum of 3 M4x35 screws.



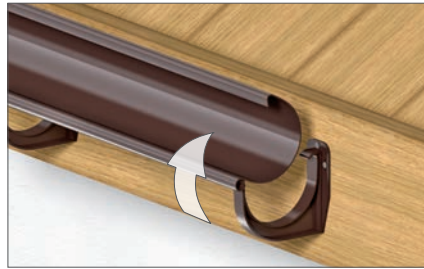
2. Install the gutter brackets located in the furthest position from the drop outlet. The slope of the gutter towards the drop outlet should be 0.3% (3 cm per 10 m).



3. Install intermediate gutter brackets. The distance between the brackets should not exceed 60 cm. For 75 mm and 100 mm gutters, a spacing of 50 cm is recommended.



4. Determine the positions of the fittings and corners. Use a hacksaw to cut the required gutter length allowing for the necessary gutter overlap in the fitting on either side of the gutter.



5. Install the gutters onto the brackets. Insert the front nose of the bracket into the front lip of the gutter, turn the gutter backwards and snap it into the rear nose of the bracket.



6. Apply a thin layer of slip paste – available from our offer, to gutter fitting gaskets (not to be used when installing stop ends).



7. Place the drop outlet on the gutters. Insert the rear edge of the drop outlet onto the rear gutter lip. Then, turn the drop outlet up until its front edge snaps onto the front gutter lip.



8. Connect the gutter sections using fittings. Adjust the length of the gutter overlap in the connector according to the marking. The distance from the bracket to the edge of the connector should not exceed 15 cm.



9. Install corners on the gutter. Insert the rear gutter lip into the rear corner lip and snap the front gutter lip into the front corner lip. The distance from the bracket to the edge of the corner should not exceed 15 cm.



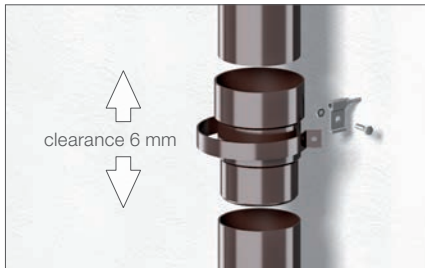
10a. Fit the right and left stop ends. Install a stop end by sliding its front section under the front gutter lip, turning it up until its rear edge snaps into the rear gutter lip. It is best to install the gutter stop ends on the gutter before fitting the gutter on the brackets.



10b. The universal stop end fits both left and right gutter end. Slide its front section under the front gutter lip and turn it down until its rear edge snaps into the rear gutter lip.



11. Install a downpipe by connecting it to the drop outlet with a pipe connector. Fix pipe clips onto the pipe connector reducer and secure them to the wall using hangers and screws. The distance between the pipe clip hangers should be every 2 m.



12. Connect the downpipe sections with a pipe connector. Fix pipe clips onto the pipe connector reducer. Leave a clearance of approximately 6 mm between the downpipe and the pipe connector.



13. If it is necessary to fit a downpipe clip directly onto the downpipe, it must be fitted so that the pipe can slide in the pipe clip.



14. For overhanging eaves, make the connection between the drop outlet and the downpipe using two bends and a downpipe section. If the connection between the drop outlet and the bend is loose, connect them mechanically (with a screw or rivet). Double-socket bends can be used (install them with the arrow pointing downwards).



15. When installing a branch or access pipe, it should be fixed to the building walls using a clip with a hanger. Fit the clip on the fitting. Allow approx. 6 mm clearance in the connection.



16. Install the bend as the outlet of the downpipe. Install the clip on the fitting under the socket.

PACKAGING

Gutter and pipe fittings with gaskets are packed in cardboard boxes. Gutters and downpipes are packed in bundles and plastic bags. The packs are prepared for dispatch on bulk pallets.

NOTES

- If the gutter system is installed on eaves with under-gutter strips made of highly reflective sheet metal (e.g. galvanised, aluminium), it is necessary to paint the strips or use coated sheets.
- Snow barriers should be used on slippery, steep roofs and when it is not possible to install a gutter below the plane that is an extension of the roof.
- The use of components from other manufacturers may affect the performance of the system. Only genuine Gamrat SA products are covered by the warranty.
- Gutter systems should only be installed when the ambient temperature is above 5°C.
- Do not push gutter fittings onto the gutters – this may damage the gaskets.
- Gutters should be regularly cleaned of debris. If there is a leak, remove the fitting and clean the connection. You can also replace the gasket in the fitting with a new one.

STORAGE AND TRANSPORT

The gutters and downpipes must be stored and transported on a flat surface in a horizontally. The first layer of gutters and downpipes should rest on level sleepers and be in contact with them over their entire length. The permissible storage height is 1 m. The sharp edges of the stands and means of transportation that come into contact with the gutters should be protected e.g. with boards. Fittings packed in cardboard boxes should be stored and transported under cover. During transport, the goods must be secured against displacement. It is recommended that loading and unloading should be carried out by hand and, if mechanical equipment is used, there should be no local crushing or throwing of the elements. Most fittings are packed in individual plastic bags. It is important that fittings packed in this way are not exposed to prolonged sunlight.

APPROVALS AND CERTIFICATIONS

[PVC] Polish standard PN-EN 607:2005; PN-EN 12200-1:2016; PN-EN 1462:2006

[PVC] Declaration of Performance

[MAGNAT] National Technical Assessment ITB-KOT-2020/1476

[MAGNAT] TWT-ZPR 2/2007

[MAGNAT] Declaration of Conformity

Removed, to be discarded and damaged PVC gutters and soffits, PVC linear drainage systems, PP linear drainage systems, steel gutters and accessories must be recycled and disposed of at waste collection points (as construction waste).

SOFFITS - INSTALLATION

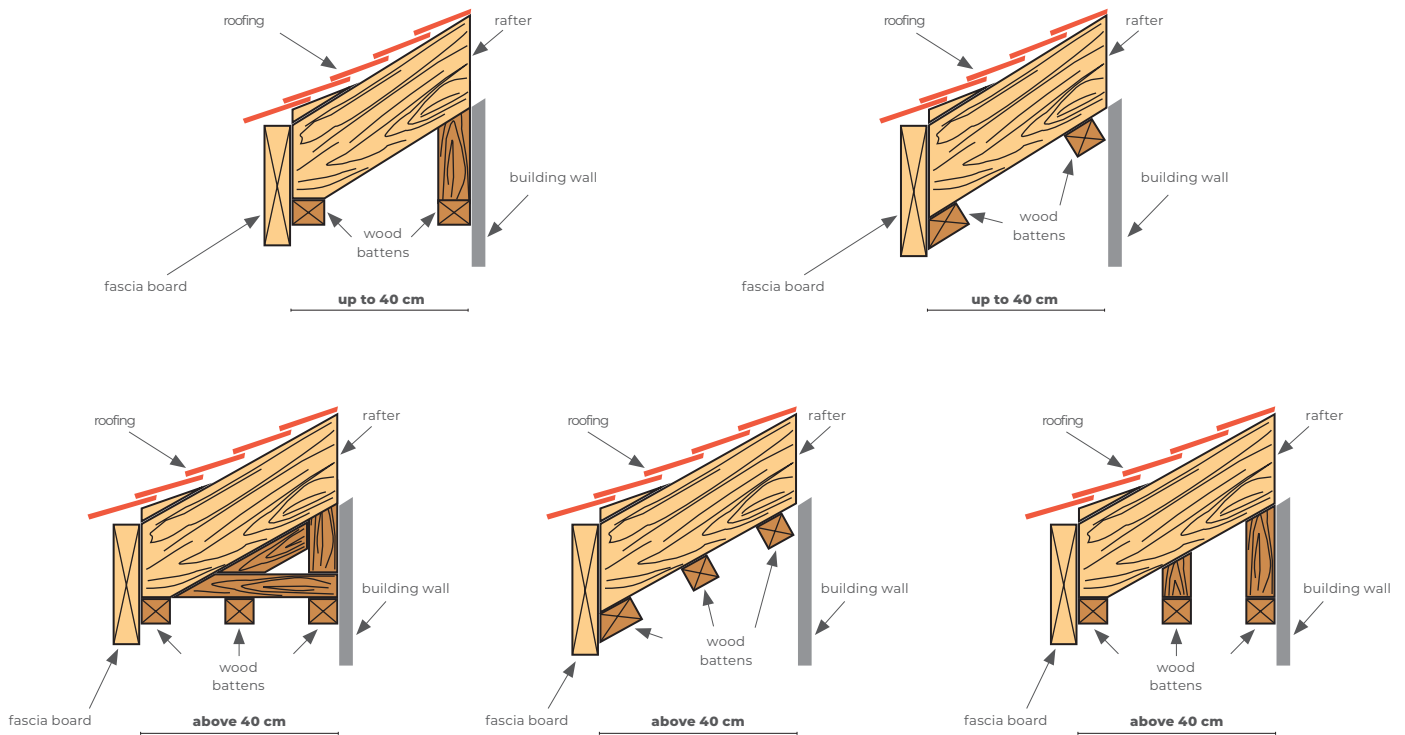
INSTALLATION OF ROOF SOFFIT

The soffit shall be fixed to the timber grid in such a way as to allow for thermal movement, which is caused by changes in ambient temperature. Do not install at temperatures below 0°C.

Do not use soffits for installation on building facades.

INSTALLATION SEQUENCE

1. The wood battens to which the soffit is to be fixed must be thoroughly dried, treated, and levelled. Use wood battens at least 25 mm x 50 mm. **Examples of supporting structures for different eaves overhangs:**



2. Fit the flashing profiles – J-channels – to the levelled and impregnated battens. Install these channels around the entire perimeter of the eaves to be fitted. The jointing of the J-channels is carried out as shown in **Figure A**. To finish the soffit on the eaves front, the properly prepared flashing of the fascia board can be used. J-channels should be nailed every 40 cm maximum. **Examples of J-channel fixing:**

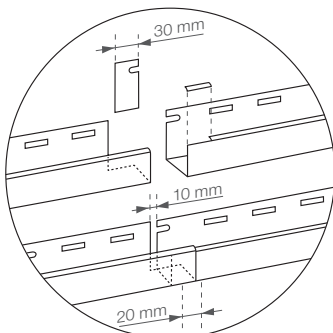
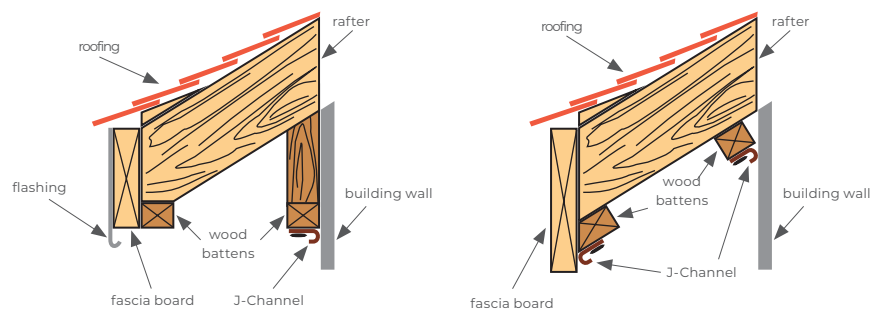
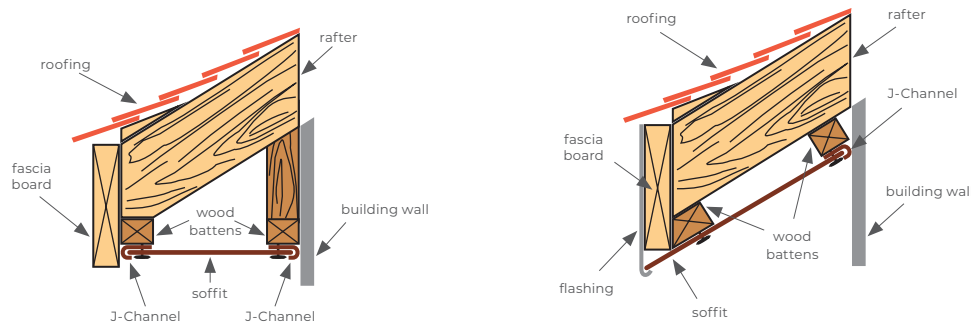


Figure A

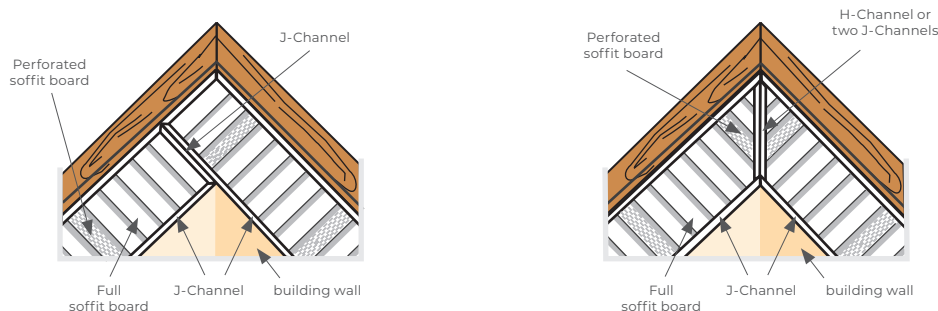


3. Bend the cut boards in the middle and slide them into the J-channels. Nail to the battens. Join the boards by snapping the edge of the next board into the lock of the previous board. It is recommended that the boards are laid perpendicular to the eaves. It is also permissible to lay them horizontally or diagonally. Fasten the boards 30 cm apart. Do not tighten the boards.

Examples of soffit board fixing:



4. Eaves corners can be made using two methods:



NOTES

- For installation, use aluminium or stainless steel nails with a minimum length of 20 mm and a minimum head width of 8 mm.
- Flat-head washer screws can also be used for installation.
- Fixings must be made in the centre of the pre-drilled holes and must not be overnailed/overtightened (leave a 1 mm gap) in order to allow for thermal movement of the soffit due to changes in length.
- Use a perforated product every third soffit board to ensure proper ventilation of the roof and eaves.
- The width of the soffit covering is 20.3 cm.
- Check the quality of the boards before fixing. Minor colour variations between production batches are acceptable.

DETERMINING THE LENGTH OF THE ELEMENTS DEPENDING ON THE INSTALLATION TEMPERATURE

Soffit boards up to 1 m in length should be cut to a length 4 mm shorter than the spacing of the inner edges of the J-channels. For boards longer than 1 m, the length of the board should be adjusted according to the installation temperature and the length of the element. Changes in soffit board length ΔL , due to temperature changes, can be calculated using the following formula.

$$\Delta L = L \times \Delta t \times \alpha$$

α - linear expansion coefficient – for PVC $\alpha = 0.08 \text{ mm} / \text{m}^\circ\text{C}$

L - length of the soffit board

Δt - temperature difference between the extreme minimum temperature ($t_{\text{min.}} = -30^\circ\text{C}$) or maximum temperature ($t_{\text{max.}} = +40^\circ\text{C}$) and the installation temperature (inst. t.).

Example:

Soffit board is 2 m long, installation takes place at $+20^\circ\text{C}$.

$$\Delta L1 = L \times (t_{\text{max.}} - \text{inst. t.}) \times \alpha$$

$$\Delta L1 = 2 \text{ m} \times (40^\circ\text{C} - 20^\circ\text{C}) \times 0.08 = 3.2 \text{ mm} - \text{this is the maximum length by which the board will get longer.}$$

$$\Delta L2 = L \times (t_{\text{min.}} - \text{inst. t.}) \times \alpha$$

$$\Delta L2 = 2 \text{ m} \times (-30^\circ\text{C} - 20^\circ\text{C}) \times 0.08 = -8 \text{ mm} - \text{this is the maximum length by which the board will get shorter.}$$

The calculation shows that the soffit board must be cut to a length of 1.996 m. The panel shortening $\Delta L2$ will be invisible (the depth of the J-channel is approximately 18 mm).

STORAGE AND TRANSPORT

To avoid deformation, all elements should be stored and transported flat under cover and supported along their entire length. The storage height should not exceed 1 m. The temperature in the rooms where the soffit elements are stored should not exceed 50°C. Products packed in foil and without protective packaging should not be stored in areas exposed to direct sunlight. During transport, the load should be secured. Do not allow items to be locally crushed or thrown.

PACKAGING

The soffit elements are packed in cardboard boxes. The packaging is adapted to the length of the boards and channels.

APPROVALS AND CERTIFICATIONS

- National Technical Assessment ITB-KOT-2017/0302 Issue 1
- Declaration of Performance

DRAINAGE - INSTALLATION

SELECTING THE LOAD CLASS OF THE CHANNEL

Select the most appropriate product for your specific application. Drainage capacity and load class are key parameters when selecting a product for linear drainage. The design of the channel must be carried out by a qualified professional.

A15	Areas for pedestrians and cyclists only, green areas.	B125	Pavements, gardens, car parks, driveways of houses for low-speed traffic.	C250	Areas along kerbs, extending up to 0.5 m on the carriageway and up to 0.2 m on the pavement.
------------	-------------------------------------------------------	-------------	---------------------------------------------------------------------------	-------------	----------------------------------------------------------------------------------------------

CONCRETE SUBSTRATE PREPARATION

The installation of the channels requires a concrete substrate with the minimum dimensions S and H as shown in the drawing.

Minimum height (H)	100 mm	100 mm	200 mm
Minimum thickness (S)	100 mm	100 mm	200 mm
Load class (PN-EN 1433)	A15	B125	C250
Applied load (PN-EN 1433)	15 kN 1500 kg	125 kN 12500 kg	250 kN 25000 kg
Concrete class (PN-EN 206)	C20/25	C25/30	
Concrete class *(PN-EN 206)	C30/37 XF4		

*when concrete is exposed to cyclic freezing and thawing

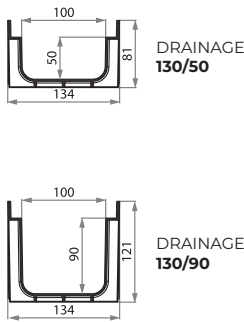
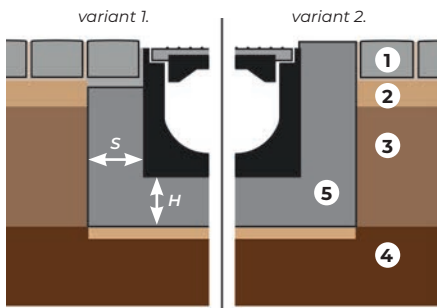


Diagram 1.



1. Paving; 2. Levelling course; 3. Base course;
4. Sub-base; 5. Concrete

POSITIONING THE SOCKET



Make a hole at the marked point on the channel to form an outlet and install the bottom-outlet using the supplied screws.



Install a cap with outlet and connect the drain pipe.

VERTICAL OUTLET

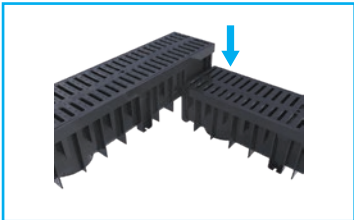
HORIZONTAL OUTLET

LONGITUDINAL AND LATERAL JOINTS

The use of silicone is recommended for joining the individual elements.



LONGITUDINAL JOINT

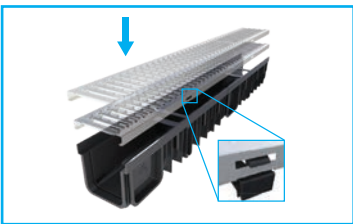


LATERAL JOINT



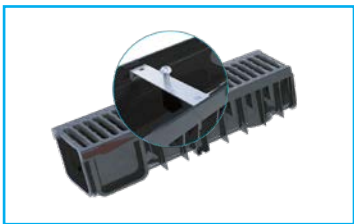
END CAP INSTALLATION

INSTALLATION AND REMOVAL OF GRATINGS



GALVANISED STEEL GRATING

Press the grating lock with a screwdriver and push the grating in until it is locked. To remove it, press on the grating lock with a screwdriver, release and lift the grating.



POLYAMIDE GRATING

Tighten the screw with a spanner until the grating is installed in the channel.

INSTALLATION



1. Dig the trench. The depth of the trench depends on the anticipated load class and the height of the channel – see **Diagram 1**. Pull a string along the trench to mark the height at which the channel is to be laid and to level the ground surface. The top of the trench should be 3 to 5 mm below the ground surface.



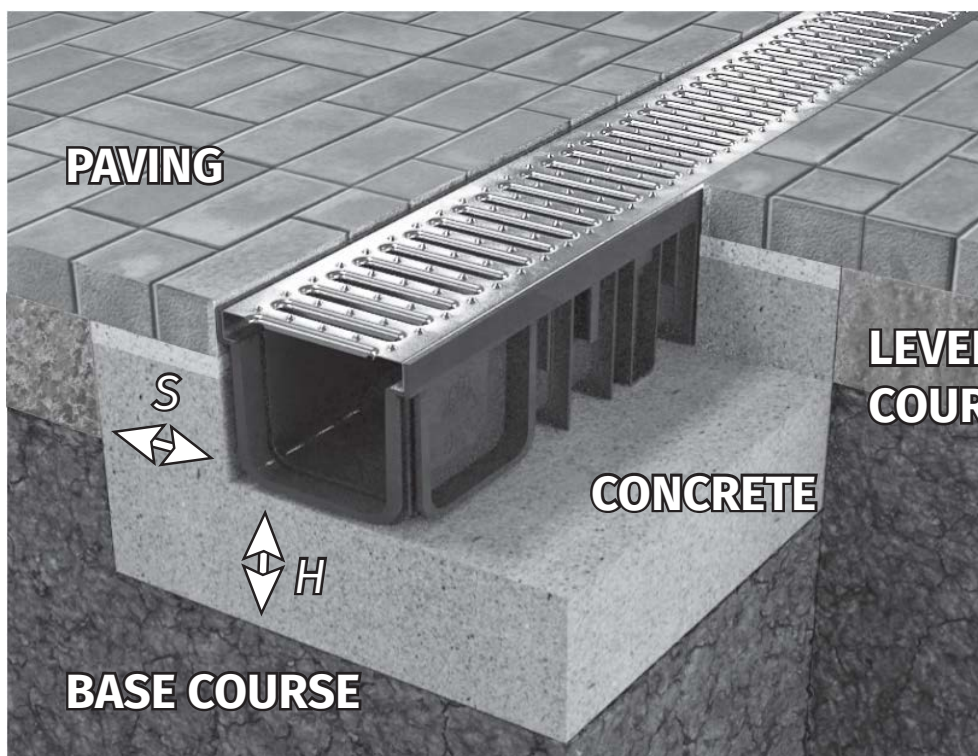
2. Pour and level the concrete in the trench, creating a slope towards the outlet. The recommended concrete grade is C25/30, or C30/37 XF4 if the concrete is subject to cyclical freezing and thawing, the recommended concrete class is. Lay the first channel and insert the outlet pipe into the sewer socket.



3. Join the remaining channels. Install the gratings before pouring the concrete to avoid deformation of the channel. Cover the gratings with plastic sheeting to prevent them from getting dirty with the concrete.

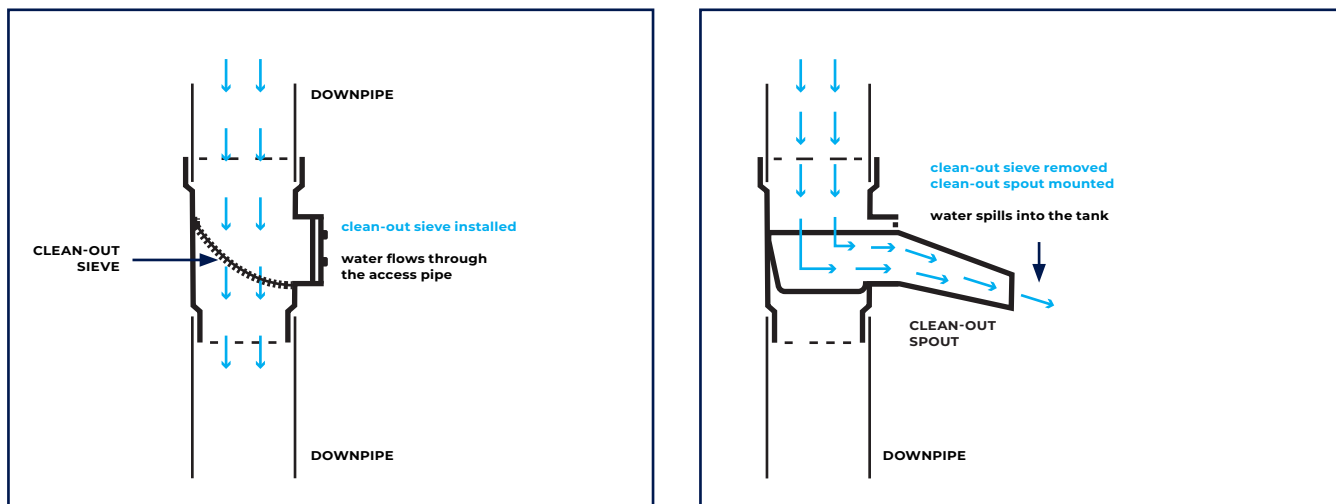


4. Pour a layer of concrete on both sides of the channels and level them. The height of the layer depends on the height of the paving. The top of the channel should be 3 to 5 mm below the ground surface.



WATER STORAGE - INSTALLATION

PRINCIPLE OPERATING OF THE DOWNSPOUT OUTLET

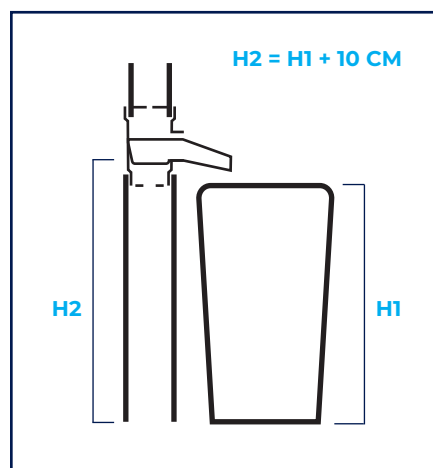


PRINCIPLE OF INSTALLING OF THE DOWNSPOUT OUTLET

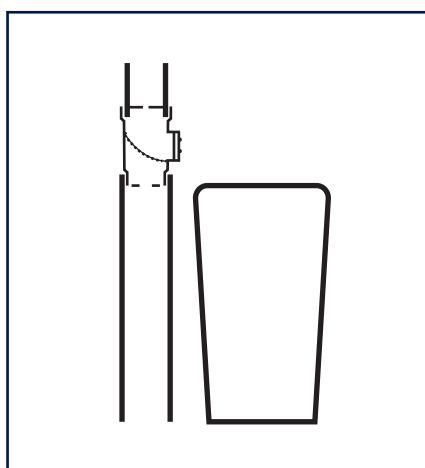
The access pipe should be installed at such a height that allows water to flow into the tank once the rainwater diverter is in place.

1. Remove the screen from the access pipe and insert the rainwater diverter in its place (you will need to press it slightly with your hand) until it snaps into place. The rainwater diverter is ready for use – all rainwater will be directed to the tank.
2. In late autumn, it is necessary to remove the rainwater diverter so as not to obstruct the flow of water during the winter and to avoid the formation of ice jams (this is done in a similar way to its installation – press the element slightly, lift it slightly upwards and slide it out of the access pipe).

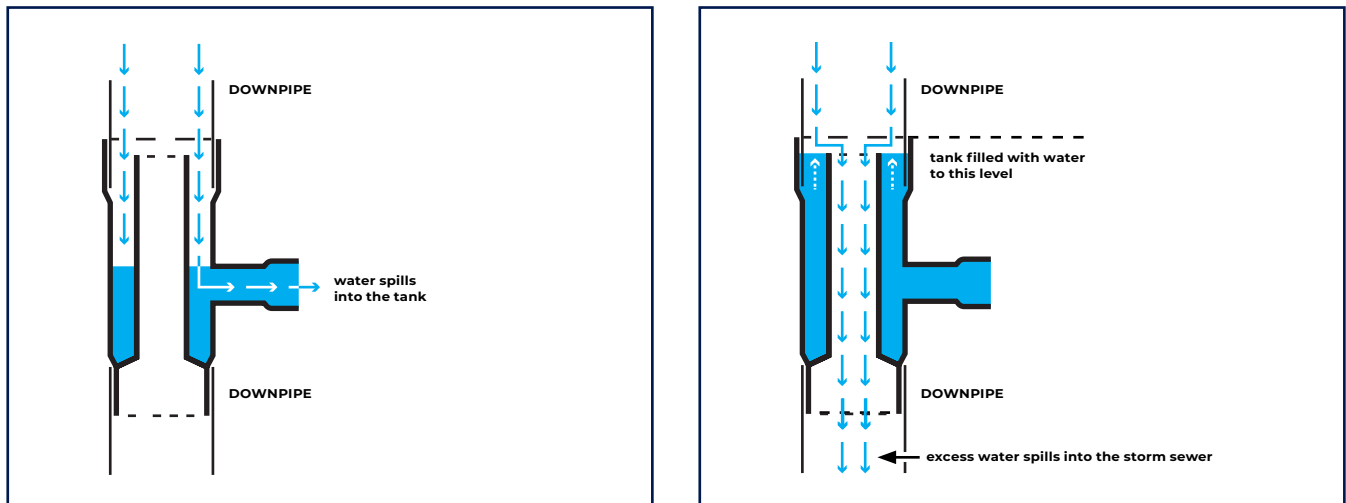
1. Rainwater diverter installed



2. Rainwater diverter removed



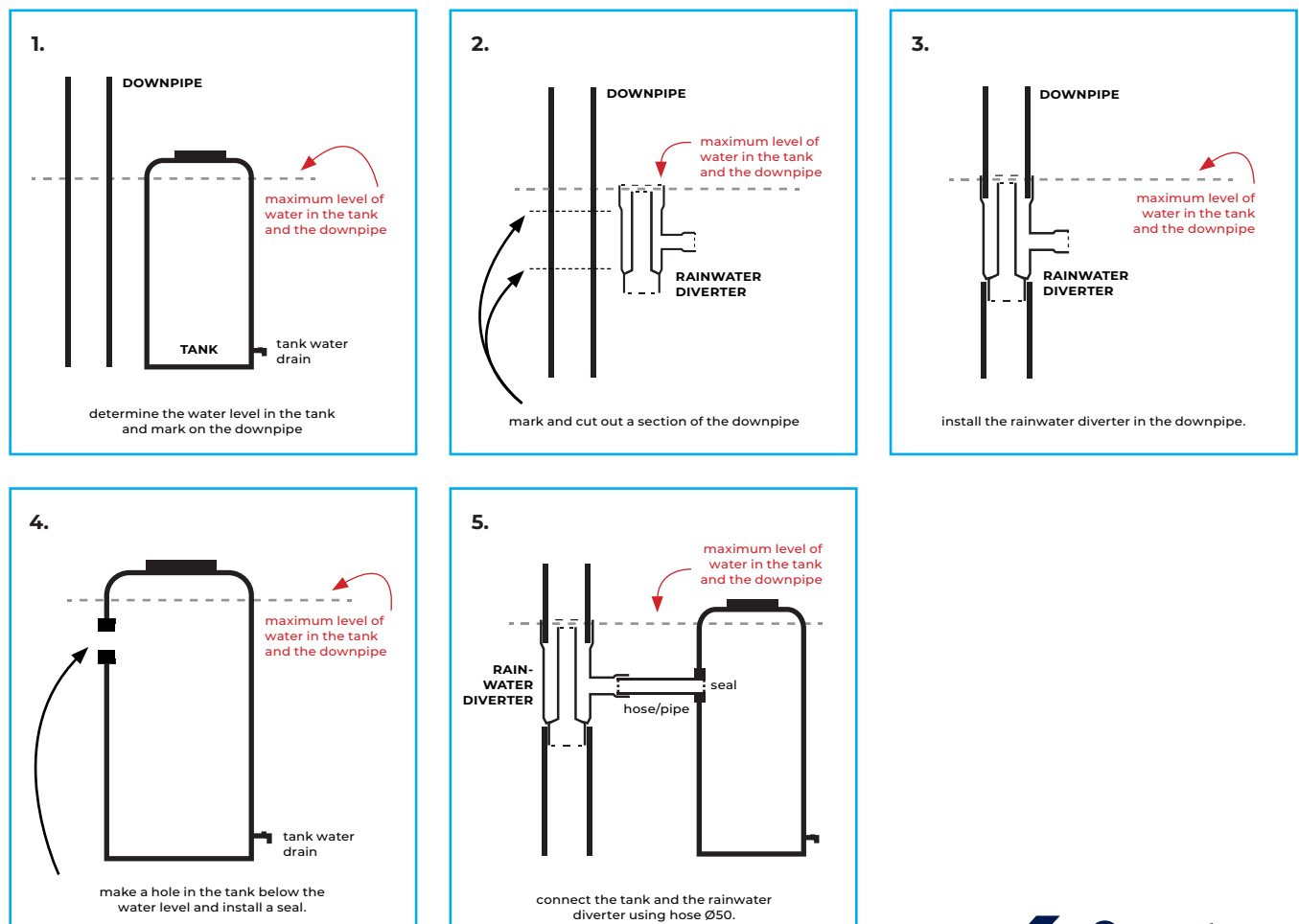
PRINCIPLE OPERATING OF THE RAINWATER DIVERTER



PRINCIPLE OF INSTALLING THE RAINWARE DIVETER ON THE EXISTING DOWNPIPE

Place the tank on a flat and level ground. Determine the maximum height of the water level in the tank to prevent overflow.

1. Put and mark the height of the water level in the tank on the downpipe.
2. Mark and cut out a piece of the downpipe as show in drawing No. 2 and grind the cut edges.
3. Install the rainwater diverter into the downpipe.
4. Make a hole in the tank below the expected water level and fit the gasket.
5. Connect the rainwater diverter horizontally and tightly to the tank using a Ø50 hose and install a protective basket in the drop outlet to prevent leaves from entering.
6. In winter remove the Ø50 hose from the rainwater diverter and plug the outlet with a cap.



Export Department:

tel. +48 13 491 48 01

fax +48 13 491 47 56

e-mail: export@gamrat.pl

