



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.









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
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	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

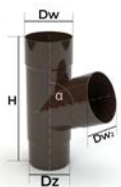
15. CLEAN-OUT



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

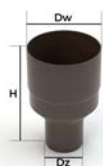
16. BRANCH 67,5°



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



	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



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

	PVC	MAGNAT	
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

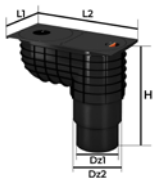


90/110	Dw	91
90/110	Dz	111
90/110	L	50

PVC	MAGNAT
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		in a package
90/100 mm	310933100	1 pcs

RAINWATER GULLY - FULL SET



L1	160
L2	325
Dz1	110
Dz2	125
H	259

PVC	MAGNAT
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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



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

PVC

	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

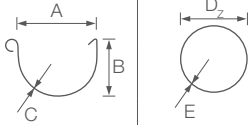
Corners are made on request in increments of 5 degrees



INSTALLATION INSTRUCTIONS

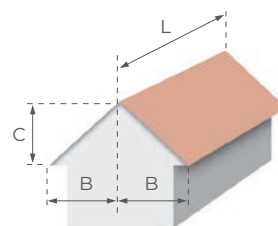
PVC & MAGNAT - INSTALLATION

DIMENSIONS AND APPLICATION OF PVC AND MAGNAT GUTTER SYSTEMS

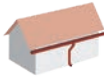
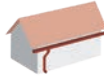
Gutter	Downpipe	A	B	C	D _z	E	System	Effective cross-section	Application
		75	55	1,2	63	1,6	75/63	33 cm ²	sheds, arbours, garages, terraces, balconies
		100	74	1,4	63	1,6	100/63	58 cm ²	sheds, arbours, terraces, balconies
		100	74	1,4	90	1,8	100/90		single-family houses
		125	89	1,5	63	1,6	125/63	91 cm 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**

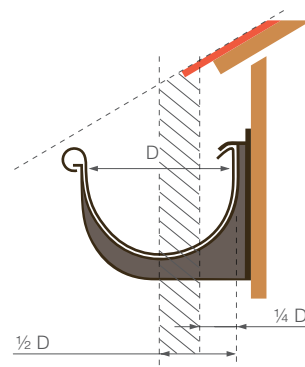


Maximum areas drained by gutter systems in square meters of the effective roof area (per one downpipe):

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

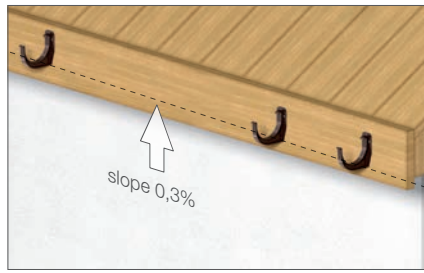
INSTALLATION SEQUENCE FOR PVC AND MAGNAT GUTTER SYSTEMS

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.

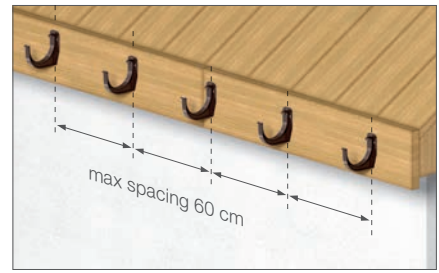




1. Mark the position of the drop outlet on the fascia board. Install gutter brackets on both sides of the drop outlet at a distance of 15 cm from the edge of the drop outlet. Fasten the brackets using a minimum of 3 M4x35 screws.



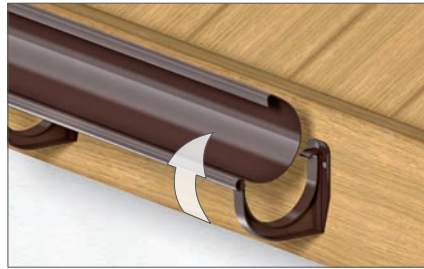
2. Install the gutter brackets located in the furthest position from the drop outlet. The slope of the gutter towards the drop outlet should be 0.3% (3 cm per 10 m).



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.



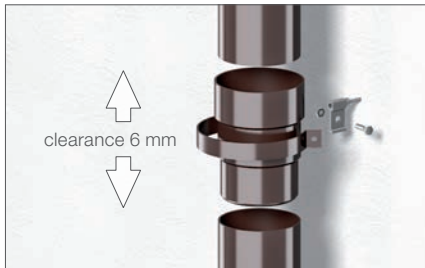
10a. Fit the right and left stop ends. Install a stop end by sliding its front section under the front gutter lip, turning it up until its rear edge snaps into the rear gutter lip. It is best to install the gutter stop ends on the gutter before fitting the gutter on the brackets.



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).