

# 16, 25 and 33 HALF-ROUND TRADITIONAL GUTTERING



**BUILDING**  
SANITARY  
ENVIRONMENT



**BUILDING - SANITARY - ENVIRONMENT**



## 25 AND 33 HALF-ROUND SYSTEMS

Traditional solvent weld or rubber gasket gutter for all types of roof.

**25 and 33 half-round** rainwater systems blend perfectly into traditional architectural styles. A wide range of fittings and brackets ensures they will always be in keeping with them.



### ADVANTAGES

- In keeping with traditional architectural styles.
- Excellent hydraulic capacity.
- Hardwearing.
- Wide range of colours.
- Large choice of brackets for half-round solvent weld or rubber gasket systems: concealed brackets, fascia brackets, directional rafter brackets, corrugated roof brackets, mounted tile brackets.
- Self-cleaning capacity for 33 gutter.



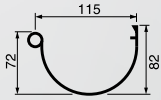
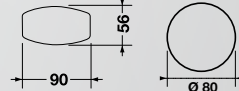



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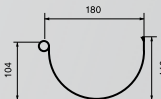
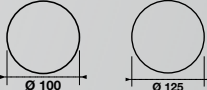





## TECHNICAL FEATURES

	25 half-round	
	Gutter profile	Downpipe
Used for	Detached, semi-detached and suburban houses	
Characteristic	Traditional style	
Shape		
Assembly	Solvent weld or rubber gasket	
Measurements		
Hydraulics		
Budget	€	
Material	Polyvinyl chloride	
Profile	½ round developed to 25	Round Ø 80
Section	66.4 cm <sup>2</sup>	Ø 80 = 46.6 cm <sup>2</sup>
Flat roof area served by an outlet	Ø 80 = 92 m <sup>2</sup>	
Colours	Light Grey White Sand Brown Red Black Green Dark grey Copper*	

\*25 solvent weld assembly only

	33 half-round	
	Gutter profile	Downpipe
Used for	Houses, Blocks of flats, Industrial buildings, Farm buildings	
Characteristic	For large expanses of roof	
Shape		
Assembly	Solvent welding or rubber gasket	
Measurements		
Hydraulics		
Budget	€ €	
Material	Polyvinyl chloride	
Profile	½ round developed to 33	Round Ø 100 and Ø 125
Section	143 cm <sup>2</sup>	Ø 100 = 73.9 cm <sup>2</sup> Ø 125 = 116.9 cm <sup>2</sup>
Flat roof area served by a running outlet	Ø 100 = 141 m <sup>2</sup> Ø 125 = 226 m <sup>2</sup>	
Colours	Light Grey White Sand Brown Red Green	Colours Ø 100: Light Grey White Sand Brown Red Black Green  Colours Ø 125: Light Grey White Sand Brown



# EUROPEAN STANDARDS





## THE NICOLL EXTRA


### Hail test:


- To prove the high mechanical resistance of its guttering systems, Nicoll has worked in close collaboration with the CSTB building engineering centre (France). The ranges of tests designed to reproduce once-in-a-decade hailstorm conditions proved the high resistance of the Nicoll systems which have been certified by the CSTB.




## EUROPEAN STANDARD NF – EN 607, for gutter profiles and fittings.


1. Shock testing at 0°C for one hour to test resistance in cold conditions (hail, pressure of a ladder). 
2. Warm and cold cycle testing, 100°C for 30' then cooled to ambient temperature. 


No distortion or surface alteration detected in the **25 and 33 Half-round** gutter.
3. Resistance to ageing: gutter exposed for 1600 hours to ultraviolet radiation and rain/evaporation cycles. 


After testing, the **25 and 33 Half-round** gutters showed no discolouration and their shock resistance was unchanged.
4. Watertightness: five 15' cycles with hot water at 50°C followed by 10' with cold water at 15°C. 

No leaking detected in the **25 and 33 Half-round** gutter.
5. Resistance to corrosion from pollution and acids. 

## EUROPEAN STANDARD NF – EN 1462, for gutter brackets (PVC or metal).

1. UV resistance for PVC the same as for gutter standard NF-EN 607. 
2. Corrosion resistance:
  - Class A for use in a harsh atmosphere,
  - Class B for use in milder atmospheric conditions.

The **Nicoll 25 and 33 Half-round** facing and concealed brackets are in class A. 
3. Load resistance:
  - Class H for heavy-duty brackets, test load 750N,
  - Class L for light brackets, test load 500N,
  - Class O with an opening width of less than 80mm (e.g. LG16).

The **Nicoll 25 and 33 Half-round** fascia brackets are in class H. 



# TECHNICAL ASSISTANCE



## SITE TECHNICAL STUDIES AND CUSTOM PARTS

Nicoll has a team of experts to handle your site studies and for special orders of customized parts or limited series. This means you will be supported by all the force and response of the Nicoll industrial system to steer you through even the most difficult sites.

Technical Assistance Department  
e-mail : [tech-com.nicoll@alixis.com](mailto:tech-com.nicoll@alixis.com)



### Narrow 90° Y-branch

The Nicoll custom parts department can make all types of branches for downpipes with any angle or outlet diameter.



### Special stopends

For façades with particular angles, Nicoll can manufacture special stopends for a better aesthetic.



### Angle outlet

For draining rainwater on a corner, Nicoll can make angle outlets specially for your needs.



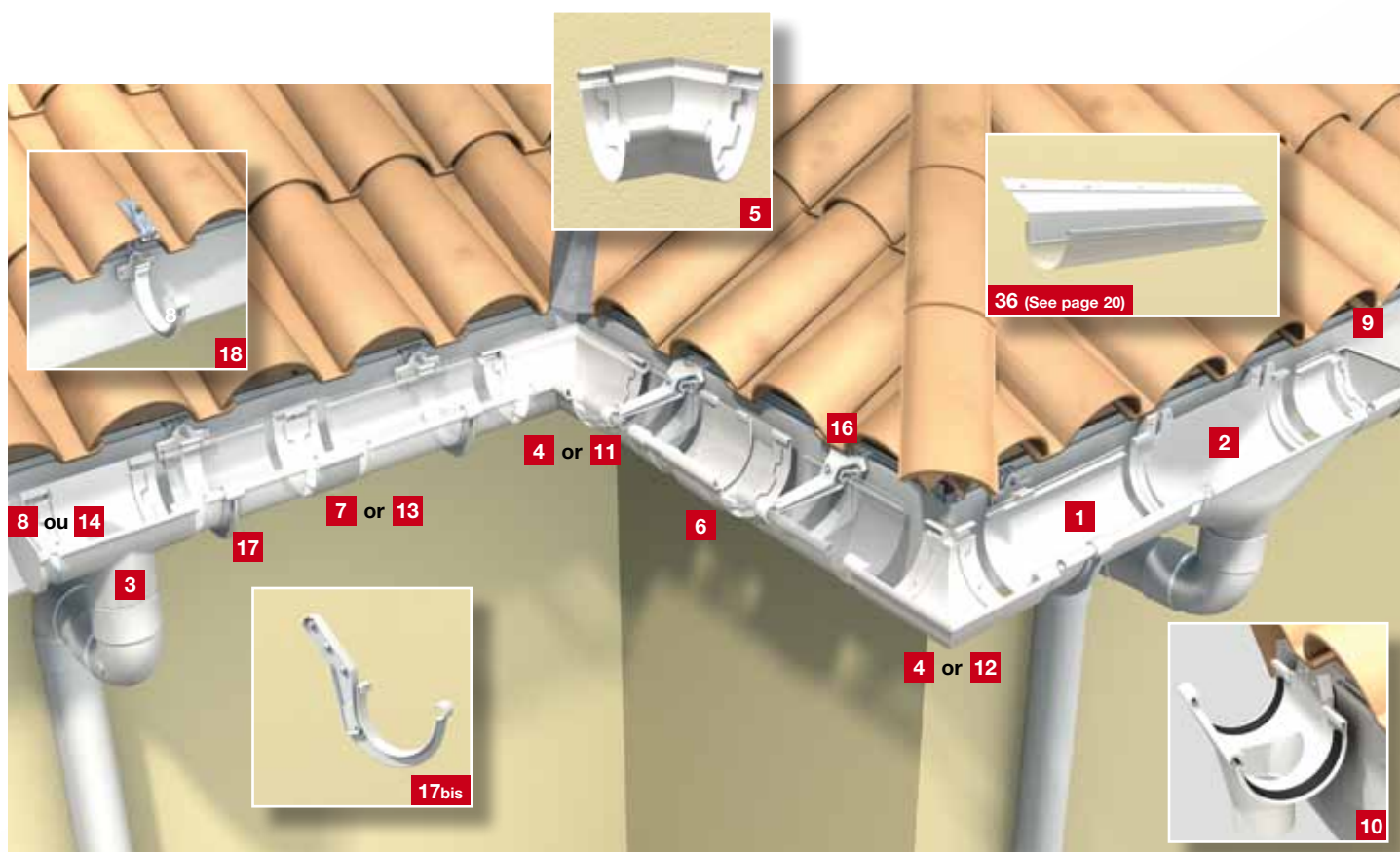
### Custom angles

In addition to the Nicoll range, you can order any type of angle you require from the Nicoll custom parts department.





# 25 AND 33 HALF-ROUND Gutter profile



## Brackets

There are 2 types of half-round gutter brackets for all architectural styles.

The concealed bracket (for 25 guttering only) makes the design smoother and the fascia bracket matches traditional styles.



### THE NICOLL EXTRA

- The expansion union part improves the installation's performance, particularly on 4-slope roofs or between 2 fixed points (solvent weld angles), typical in some regions.




## Rubber gasket system **10 11 12 13 14 15**

- Fastening incorporated into the fittings (outlet and gutter union part) to form a fixed point which allows for expansion and reduces the number of brackets.
- Notched to prevent water retention.
- Position mark on ends of the gutter etched into the fitting to allow for natural variations in the profile.
- Solvent weld EPDM neoprene joint for perfect sealing.

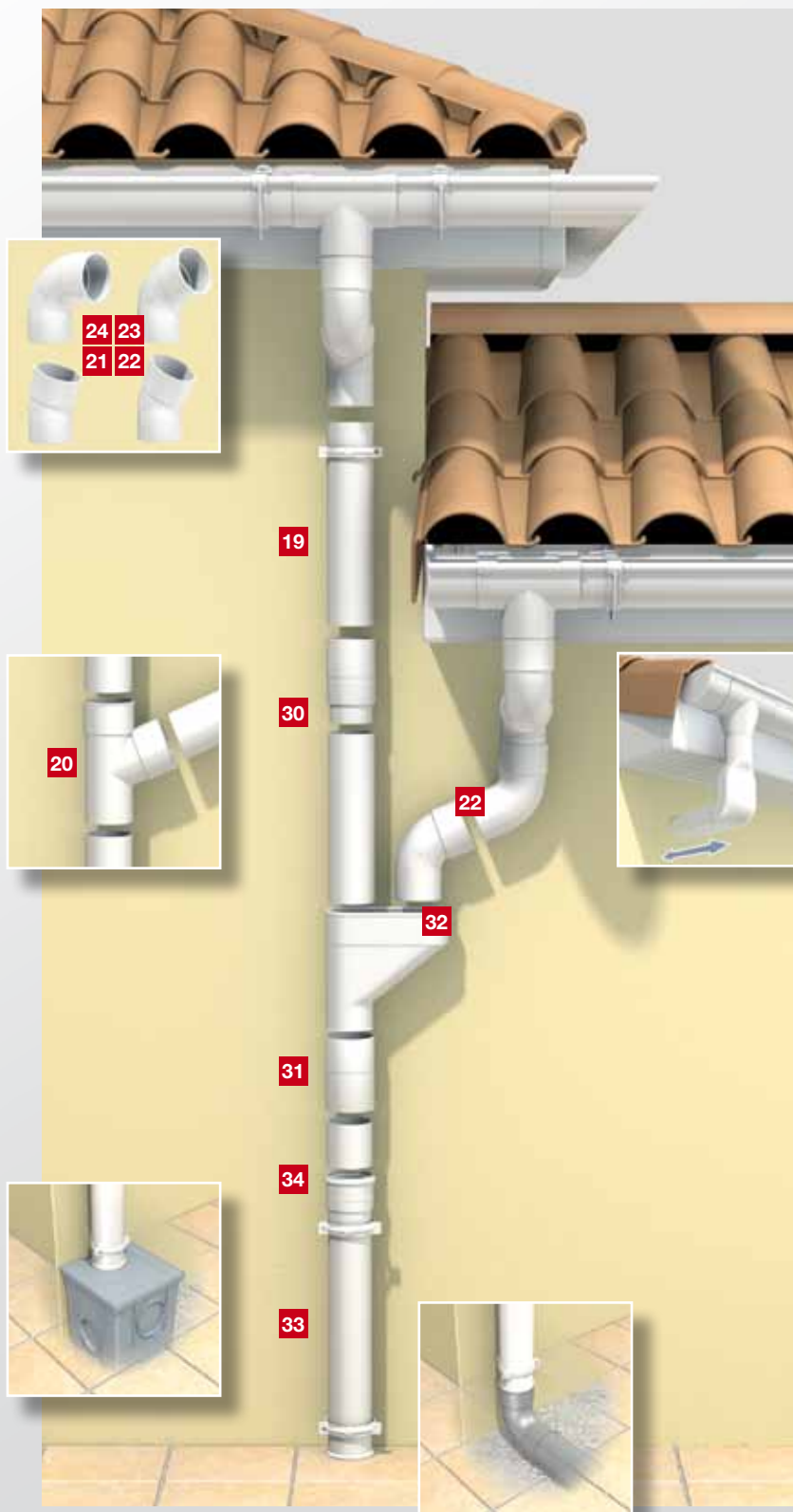


## Solvent weld system

- The solvent weld system is used for cold welding of guttering parts. This operation ensures perfect watertightness and excellent mechanical performance
- 
- 2 lines of glue should be used for best results:
  - One line of glue in the coupling grooves to seal the system.
  - Another line of glue round the edge of the coupling to ensure the parts hold together.



# 25 AND 33 HALF-ROUND Gutter profile



## Downpipe bracket

This fits round the pipe and has an articulated bracket which locks with a captive screw.



## Single bend section

To make up for misalignment between the outlet and the downpipe. It can also be used to make the downpipe plumb in relation to the roof pitch. Only available for Ø 80 pipes.



## Double socket pipe connector

Excellent for replacing sockets or using up pieces of rainwater pipes.

## Reinforced bottom downpipe

High mechanical resistance. Indispensable for PVC downpipes, it is also compatible with other commonly-used materials.

## Rainwater hopper

For fitting different rainwater pipes - downpipes, horizontal terrace outlets, overflows, etc.



## THE NICOLL EXTRA













- The new Vodalis® bends with sockets incorporated enhance downpipe design (see the Vodalis Gutters catalogue).





# 25 HALF-ROUND Gutter profile

## 25 half-round gutter system

Description	Light Grey	White	Sand	Brown	Red	Black	Green	Dark grey	Copper		
<b>GUTTER PROFILE</b>											
<b>1</b> Length 4 m.	LG25	LG25B	LG25S	LG25M	LG25R	LG25N	LG25V	LG25A	LG25C		
Length 2 m.	LG252	LG252B	LG252S	LG252M	LG252R	LG252N	LG252V	LG252A	LG252C		
<b>SOLVENT WELD GUTTER FITTINGS</b>											
<b>2</b> Central expansion outlet Ø 80 Central expansion outlet Ø 100 Central expansion outlet outlet 90 x 56	S O L V E N T	NAD25	NAD25B	NAD25S	NAD25M	NAD25R	NAD25N	NAD25V	NAD25A	NAD25C	
		NADT25	NADT25B	NADT25S	NADT25M	NADT25R	NADT25N	NADT25V	NADT25A	NADT25C	
		NADN25	NADN25B	NADN25S	NADN25M	NADN25R	NADN25N	NADN25V	NADN25A	NADN25C	
<b>3</b> Central outlet Ø 80 Central outlet Ø 100	S O L V E N T	NAC25	NAC25B	NAC25S	NAC25M	NAC25R	NAC25N	NAC25V	NAC25A	NAC25C	
		NACT25	NACT25B	NACT25S	NACT25M	NACT25R	NACT25N	NACT25V	NACT25A	NACT25C	
<b>4</b> 90° internal or external angle <b>5</b> 135° angle	S O L V E N T	ANC25	ANC25B	ANC25S	ANC25M	ANC25R	ANC25N	ANC25V	ANC25A	ANC25C	
		ANC525	ANC525B	ANC525S	ANC525M	ANC525R	ANC525N	ANC525V	ANC525A	ANC525C	
Expansion piece	W E L D	BEC25	BEC25B	BEC25S	BEC25M	BEC25R	BEC25N	BEC25V	BEC25A	BEC25C	
<b>6</b> Expansion coupling		JND25	JND25B	JND25S	JND25M	JND25R	JND25N	JND25V	JND25A	JND25C	
<b>7</b> Gutter coupling	W E L D	JNC25	JNC25B	JNC25S	JNC25M	JNC25R	JNC25N	JNC25V	JNC25A	JNC25C	
<b>8</b> Universal stopend outlet <b>9</b> Universal gutter stopend		FCN25	FCN25B	FCN25S	FCN25M	FCN25R	FCN25N	FCN25V	FCN25A	FCN25C	
		R U B B E R	FCG25	FCG25B	FCG25S	FCG25M	FCG25R	FCG25N	FCG25V	FCG25A	FCG25C
<b>RUBBER GASKET FITTINGS</b>											
<b>10</b> Central outlet	R U B B E R	NC25	NC25B	NC25S	NC25M	NC25R	NC25N	NC25V	NC25A		
<b>11</b> 90° internal angle		AI25	AI25B	AI25S	AI25M	AI25R	AI25N	AI25V	AI25A		
<b>12</b> 90° external angle		AE25	AE25B	AE25S	AE25M	AE25R	AE25N	AE25V	AE25A		
<b>13</b> Gutter union part		JN25	JN25B	JN25S	JN25M	JN25R	JN25N	JN25V	JN25A		
<b>14</b> Stopend outlet		FNJ25	FNJ25B	FNJ25S	FNJ25M	FNJ25R	FNJ25N	FNJ25V	FNJ25A		
<b>15</b> Gutter stopend	G A S K E T	FGJ25	FGJ25B	FGJ25S	FGJ25M	FGJ25R	FGJ25N	FGJ25V	FGJ25A		
<b>GUTTER BRACKETS</b>											
<b>16</b> Concealed facing bracket	BHGB25	BHGB25B	BHGB25S	BHGB25M	BHGB25R	BHGB25N	BHGB25V	BHGB25A	BHGB25C		
Rack	KCB25										
<b>17</b> Plastic facing bracket	GB25P	GB25PB	GB25PS	GB25PM	GB25PR	GB25PN	GB25PV	GB25PA	GB25PC		
<b>17bis</b> Directional rafter bracket	GC025P	GC025PB	GC025PS	GC025PM							
<b>18</b> Mounted tile bracket			GT25PMS								
Mounted bracket (for corrugated roofs)	G025PM	G025PMB	G025PMS	G025PMM	G025PMR	G025PMN	G025PMV	G025PMA	G025PMC		
Non-mounted bracket (for corrugated roofs)	G025P	G025PB	G025PS	G025PM	G025PR	G025PN	G025PV	G025PA	G025PC		
Single 25 PVC bracket for metal accessory	BERG025P	BERG025PB	BERG025PS	BERG025PM	BERG025PR	BERG025PN	BERG025PV	BERG025PA	BERG025PC		





# 25 HALF-ROUND Downpipe















## 25 Ø 80 Half-round downpipe system

Description	Light Grey	White	Sand	Brown	Red	Black	Green	Dark grey	Copper	
<b>DOWNPIPE Ø 80 PROFILE</b>										
<b>19</b> Length 4 m.	TD80	TD80B	TD80S	TD80M	TD80R	TD80N	TD80V	TD80A	TD80C	
Length 3 m.	TD803	TD803B	TD803S	TD803M	TD803R	TD803N	TD803V	TD803A	TD803C	
Length 2 m.	TD802	TD802B	TD802S	TD802M	TD802R	TD802N	TD802V	TD802A	TD802C	
<b>DOWNPIPE FITTINGS</b>										
<b>20</b> 67°30 male-female branch	BR16GT	BR16GTB	BR16GTS	BR16GTM	BR16GTR	BR16GTN	BR16GTV	BR16GTA	BR16GTC	
<b>21</b> 20° single socket bend	CR2GT	CR2GTB	CR2GTS	CR2GTM	CR2GTR	CR2GTN	CR2GTV	CR2GTA	CR2GTC	
<b>22</b> 45° single socket bend	CR4GT	CR4GTB	CR4GTS	CR4GTM	CR4GTR	CR4GTN	CR4GTV	CR4GTA	CR4GTC	
<b>23</b> 67°30 single socket bend	CR6GT	CR6GTB	CR6GTS	CR6GTM	CR6GTR	CR6GTN	CR6GTV	CR6GTA	CR6GTC	
<b>24</b> 87°30 single socket bend	CR8GT	CR8GTB	CR8GTS	CR8GTM	CR8GTR	CR8GTN	CR8GTV	CR8GTA	CR8GTC	
<b>25</b> 45° double socket bend	CR44GT	CR44GTB	CR44GTS	CR44GTM	CR44GTR		CR44GTV		CR44GTC	
<b>26</b> 67°30 double socket bend	CR66GT	CR66GTB	CR66GTS	CR66GTM	CR66GTR	CR66GTN	CR66GTV	CR66GTA	CR66GTC	
<b>27</b> 87°30 double socket bend	CR88GT	CR88GTB	CR88GTS	CR88GTM	CR88GTR		CR88GTV		CR88GTC	
<b>28</b> 15° single socket bend section	SR1GT	SR1GTB	SR1GTS	SR1GTM	SR1GTR	SR1GTN	SR1GTV	SR1GTA	SR1GTC	
<b>29</b> 30° single socket bend section	SR3GT	SR3GTB	SR3GTS	SR3GTM	SR3GTR	SR3GTN	SR3GTV	SR3GTA	SR3GTC	
<b>30</b> Double socket pipe connector	JRGT	JRGTB	JRGTB	JRGTB	JRGTB	JRGTB	JRGTB	JRGTB	JRGTB	
<b>31</b> Single socket coupling	ZRGT	ZRGTB	ZRGTB	ZRGTB	ZRGTB	ZRGTB	ZRGTB	ZRGTB	ZRGTB	
<b>32</b> Downpipe outlet	JAM80	JAM80B	JAM80S	JAM80M	JAM80R	JAM80N	JAM80V	JAM80A	JAM80C	
Rainwater hopper	BAO80	BAO80B	BAO80S	BAO80M	BAO80R				BAO80C	
<b>REINFORCED BOTTOM DOWNPIPE</b>										
<b>33</b> Traditional straight - 1m	DDF10R	DDF10RB	DDF10RS							
Traditional with bend - 1m	DCF10R	DCF10RB	DCF10RS							
Straight coupling - 1m	DD10R									
Elbow coupling - 1m	DC10R									
<b>PIPE BRACKETS</b>										
<b>34</b> Pipe brackets with screws	CORGT	CORGTB	CORGTS	CORGTM	CORGTA	CORGTA	CORGTR	CORGTV	CORGTC	
Pipe clip	CO80GT	CO80GTB	CO80GTS							
Safety strap	AC80GT									



# 33 HALF-ROUND Gutter profile

## 33 Half-round gutter system

Description	Light grey	White	Sand	Brown	Red	Green	
<b>GUTTER PROFILE</b>							
<b>1</b> Length 4 m.	LG33	LG33B	LG33S	LG33M	LG33R	LG33V	
<b>SOLVENT WELD SYSTEM FITTINGS</b>							
<b>2</b> Central expansion outlet Ø 100	NAD33	NAD33B	NAD33S	NAD33M	NAD33R	NAD33V	<b>2</b> 
<b>2'</b> Central expansion outlet Ø 125	NAD333	NAD333B	NAD333S	NAD333M	NAD333R	NAD333V	<b>2'</b> 
<b>3</b> Central outlet Ø 100	NAC33	NAC33B	NAC33S	NAC33M	NAC33R	NAC33V	
Central outlet Ø 125	NAC333	NAC333B	NAC333S				
<b>4</b> 90° solvent weld angle	ANC33	ANC33B	ANC33S	ANC33M	ANC33R	ANC33V	
<b>5</b> 135° solvent weld angle	ANC533	ANC533B	ANC533S	ANC533M	ANC533R	ANC533V	
Expansion piece	BEC33	BEC33B	BEC33S	BEC33M			
<b>6</b> Expansion Union part	JND33	JND33B	JND33S	JND33M	JND33R	JND33V	
<b>7</b> Gutter union part	JNC33	JNC33B	JNC33S	JNC33M	JNC33R	JNC33V	
<b>8</b> Universal outlet stopend	FCN33	FCN33B	FCN33S	FCN33M	FCN33R	FCN33V	
<b>9</b> Universal outlet stopend	FCG33	FCG33B	FCG33S	FCG33M	FCG33R	FCG33V	
<b>RUBBER GASKET FITTINGS</b>							
<b>10</b> Central outlet Ø 100	NC33		NC33S	NC33M			<b>10</b> 
<b>10bis</b> Central outlet Ø 125	NC333		NC333S				<b>10 bis</b> 
<b>11</b> 90° internal angle	AI33		AI33S				<b>11</b> 
<b>12</b> 90° external angle	AE33		AE33S				<b>12</b> 
<b>13</b> Gutter union part	JN33	JN33B	JN33S	JN33M			
<b>GUTTER BRACKETS</b>							
<b>17</b> Plastic fascia bracket	GB33P	GB33PB	GB33PS	GB33PM	GB33PR	GB33PV	
Mounted (corrugated roofs)	G033PM		G033PMS	G033PMM	G033PMR		
Non-mounted	G033P		G033PS	G033PM			
Single 33 PVC bracket for metal accessory	BERG033P	BERG033B	BERG033S	BERG033M	BERG033R	BERG033V	
<b>DRIP EDGE</b>							
<b>36</b> Length 2m	LARM18	LARM18B	LARM18S	LARM18M	LARM18R	LARM18V	



# 33 HALF-ROUND Downpipe

## Ø 33 100 and Ø 125 Half-round downpipe system

Description	Light grey	White	Sand	Brown	Red	Black	Green	Dark grey	
<b>DOWNPIPE Ø 100 AND Ø 125 PROFILE</b>									
<b>19</b> Length 4 m. <i>*Holder of brand NF-EP</i>	TD100 <sup>(1)</sup>	TD100B <sup>(1)</sup>	TD100S <sup>(1)</sup>	TD100M <sup>(1)</sup>	TD100R <sup>(1)</sup>	TD100N <sup>(1)</sup>	TD100V <sup>(1)</sup>	TD100A <sup>(1)</sup>	
	TD102 <sup>(1)*</sup>		TD102S <sup>(1)*</sup>						
	TD125 <sup>(2)</sup>	TD125B <sup>(2)</sup>	TD125S <sup>(2)</sup>	TD125M <sup>(2)</sup>					
<b>DOWNPIPE Ø 100 AND Ø 125 FITTINGS</b>									
<b>20</b> 67°30 male-female branch	BT16GT <sup>(1)</sup>	BT16GTB <sup>(1)</sup>	BT16GTS <sup>(1)</sup>	BT16GTM <sup>(1)</sup>	BT16GTR <sup>(1)</sup>	BT16GTN <sup>(1)</sup>	BT16GTV <sup>(1)</sup>	BT16GTA <sup>(1)</sup>	
	BX16GT <sup>(2)</sup>	BX16GTB <sup>(2)</sup>	BX16GTS <sup>(2)</sup>						
<b>21</b> 20° single socket bend <b>22</b> 45° single socket bend <b>23</b> 67°30 single socket bend <b>24</b> 87°30 single socket bend	CT2GT <sup>(1)</sup>		CT2GTS <sup>(1)</sup>						
	CT4GT <sup>(1)</sup>	CT4GTB <sup>(1)</sup>	CT4GTS <sup>(1)</sup>	CT4GTM <sup>(1)</sup>	CT4GTR <sup>(1)</sup>	CT4GTN <sup>(1)</sup>	CT4GTV <sup>(1)</sup>		
	CX4GT <sup>(2)</sup>	CX4GTB <sup>(2)</sup>	CX4GTS <sup>(2)</sup>						
	CT6GT <sup>(1)</sup>	CT6GTB <sup>(1)</sup>	CT6GTS <sup>(1)</sup>	CT6GTM <sup>(1)</sup>	CT6GTR <sup>(1)</sup>	CT6GTN <sup>(1)</sup>	CT6GTV <sup>(1)</sup>	CT6GTA <sup>(1)</sup>	
	CX6GT <sup>(2)</sup>	CX6GTB <sup>(2)</sup>	CX6GTS <sup>(2)</sup>	CX6GTM <sup>(2)</sup>					
	CT8GT <sup>(1)</sup>	CT8GTB <sup>(1)</sup>	CT8GTS <sup>(1)</sup>	CT8GTM <sup>(1)</sup>	CT8GTR <sup>(1)</sup>	CT8GTN <sup>(1)</sup>	CT8GTV <sup>(1)</sup>		
	CX8GT <sup>(2)</sup>	CX8GTB <sup>(2)</sup>	CX8GTS <sup>(2)</sup>						
<b>25</b> 45° double socket bend <b>26</b> 67°30 double socket bend <b>27</b> 87°30 double socket bend	CT44GT <sup>(1)</sup>	CT44GTB <sup>(1)</sup>	CT44GTS <sup>(1)</sup>						
	CT66GT <sup>(1)</sup>	CT66GTB <sup>(1)</sup>	CT66GTS <sup>(1)</sup>	CT66GTM	CT66GTR				
	CT88GT <sup>(1)</sup>	CT88GTB <sup>(1)</sup>	CT88GTS <sup>(1)</sup>						
<b>30</b> Double socket pipe connector	JTGT <sup>(1)</sup>	JTGTB <sup>(1)</sup>	JTGTS <sup>(1)</sup>	JTGTM <sup>(1)</sup>	JTGTR <sup>(1)</sup>	JTGTN <sup>(1)</sup>	JTGTV <sup>(1)</sup>	JTGTA <sup>(1)</sup>	
	JXGT <sup>(2)</sup>	JXGTB <sup>(2)</sup>	JXGTS <sup>(2)</sup>	JXGTM <sup>(2)</sup>					
<b>31</b> Single socket coupling	ZTGT <sup>(1)</sup>	ZTGTB <sup>(1)</sup>	ZTGTS <sup>(1)</sup>	ZTGTM <sup>(1)</sup>	ZTGTR <sup>(1)</sup>	ZTGTN <sup>(1)</sup>	ZTGTV <sup>(1)</sup>	ZTGTA <sup>(1)</sup>	
	ZXGT <sup>(2)</sup>	ZXGTB <sup>(2)</sup>	ZXGTS <sup>(2)</sup>						
<b>32</b> Downpipe outlet	JAM100 <sup>(1)</sup>	JAM100B <sup>(1)</sup>	JAM100S <sup>(1)</sup>	JAM100M <sup>(1)</sup>	JAM100R <sup>(1)</sup>	JAM100N <sup>(1)</sup>	JAM100V <sup>(1)</sup>		
Rainwater hopper Ø 100	BAO100 <sup>(1)</sup>	BAO100B <sup>(1)</sup>	BAO100S <sup>(1)</sup>	BAO100M <sup>(1)</sup>	BAO100R <sup>(1)</sup>	BAO100N <sup>(1)</sup>	BAO100V <sup>(1)</sup>		
Rainwater hopper Ø 110	BAO110 <sup>(1)</sup>								
Concentric reducer Ø 100/80	RE338 <sup>(1)</sup>	RE338GTB <sup>(1)</sup>	RE338S <sup>(1)</sup>	RE338M <sup>(1)</sup>	RE338R <sup>(1)</sup>	RE338N <sup>(1)</sup>	RE338V <sup>(1)</sup>		
<b>REINFORCED BOTTOM DOWNPIPE</b>									
<b>33</b> Traditional straight - 1m Traditional with bend - 1m Straight fitting - 1m Elbow fitting - 1m	DDF10T <sup>(1)</sup>	DDF10TB <sup>(1)</sup>	DDF10TS <sup>(1)</sup>						
	DCF10T <sup>(1)</sup>	DCF10TB <sup>(1)</sup>	DCF10TS <sup>(1)</sup>						
	DD10T <sup>(1)</sup>								
	DC10T <sup>(1)</sup>								
<b>PIPE BRACKETS Ø 100 AND Ø 125</b>									
<b>34</b> Pipe bracket with screws Pipe Clip Safety strap	COTGT <sup>(1)</sup>	COTGTB <sup>(1)</sup>	COTGTS <sup>(1)</sup>	COTGTM <sup>(1)</sup>	COTGTR <sup>(1)</sup>	COTGTN <sup>(1)</sup>	COTGTV <sup>(1)</sup>	COTGTA <sup>(1)</sup>	
	COXGT <sup>(2)</sup>	COXGTB <sup>(2)</sup>	COXGTS <sup>(2)</sup>	COXGTM <sup>(2)</sup>					
	CO100GT <sup>(1)</sup>		CO100GTS <sup>(1)</sup>						
	CO125GT <sup>(2)</sup>								
				AC100GT <sup>(1)</sup>					
			AC125GT <sup>(2)</sup>						

<sup>(1)</sup> Ø 100 <sup>(2)</sup> Ø 125





# GENERAL RULES

## Installing a gutter system.

### REGULATIONS

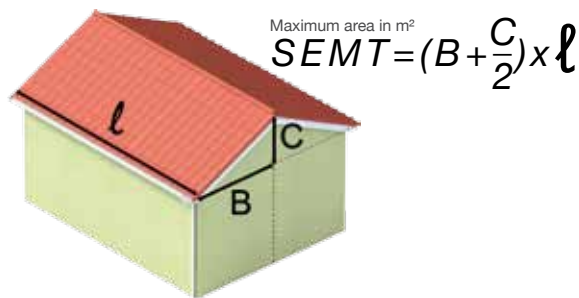
The rules for sizing of rainwater installations are those given in the code of practice DTU 60-11.

Nicoll gutters and brackets comply with European standards NF EN 607 and NF EN 1462.

The 25 half-round gutter is approved by the CSTB.

Standards reference documents
DTU 60.11
European standard NF EN 607 N° 5 + 15/79-279.

### CALCULATION OF ROOF AREA TO GUTTER



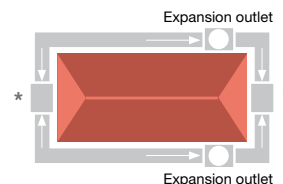
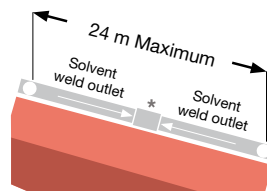
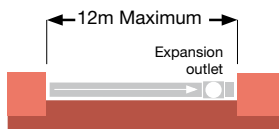
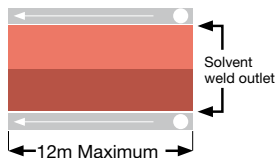
### MAXIMUM ROOF AREA

Flat roof served by a running outlet

	Downpipe	END OUTLET		CENTRAL OUTLET	
		Output (m³/h)	SEMT (m²)	Output (m³/h)	SEMT (m²)
Half-round gutter	LG16	Ø50	1,9	25	73
	LG25	Ø80	7,5	92	267
		Ø100		141	
	LG33	Ø100	18	240	45
Ø125					

### EXPANSION ALLOWANCE

Expansion coef.: 0.7mm x metre x 10°C temperature difference



If the installation is like fig. A “straight line with no incline” and does not exceed 12m, a solvent weld outlet will be adequate. Expansion will occur at the free end of the installation away from the downpipe.

If the installation is like fig. B “line blocked at both ends or at the end away from the downpipe” and does not exceed 12m, an expansion outlet will be required.

If the installation exceeds 12m and is like fig. C “straight line with or without incline”, two solvent weld outlets and an expansion piece\* will be required. The spacing between two outlets should not exceed 24m.

If the installation runs rounds a roof with 4 slopes, as in fig. D, expansion outlets and expansion pieces will be required.\*



# LG 25/33 HALF-ROUND

## 1- FITTING THE GUTTER PROFILE

The LG25/LG33 half-round gutter system is entirely compatible with the BELRIV® eaves system.

### a. Fitting systems



#### Fitting to a header board

- Fit the facing brackets to the board at regular intervals of no more than 0.50m.



#### Fitting to rafters

- Fit the brackets to a flat or twisted bracket so the gutter can be placed on the top or the side of the rafter. Space them at regular intervals of no more than 0.50m.



#### Fitting to layered tiles

- Stretch a twine and drill 2 holes in the tile to fit the metal accessory. This galvanised part can be used instead of a tile bracket.



#### Fitting to tiles

- Fit the brackets to a galvanised clamp at the top of the curve so that the drainage channel stays free. Space them at regular intervals of no more than 0.50m.

### b. Fitting the outlet



#### 1 Fitting a solvent weld outlet, expansion outlet or rubber gasket outlet

- Establish the position of the outlets vertically to the rainwater inspection box.
- Fit the outlet onto the fascia board to make a fixed point for the gutter to move smoothly.

#### 2 Fitting a solvent weld or seal joint collector

- Lay a line of glue round the stopend groove inside the gutter.
- Assemble immediately with a straight movement.
- Wait a few minutes before handling.
- The rubber gasket is clipped (from back to front) into the outlet.



	The tile rests on the fascia	The tile rests on the supporting batten
	X	Y
LG25	7 - 9 cm	10 - 12 cm
LG33	8 - 11 cm	11 - 14 cm

### c. Fitting the gutter brackets



- Establish the position of the outlet and fit the end brackets at 50mm from the fittings to allow the gutter to expand freely.
- The solvent weld outlet will be fitted along with the gutter profile.



- This type of gutter requires a flat surface or low pitch.
- TStretch a twine between the end brackets to ensure proper alignment. Screw in the brackets (2 screws per bracket) or fit them with a Belriv® plate (ref. ASC) at regular intervals of no more than 0.50m.



# LG 25/33 HALF-ROUND

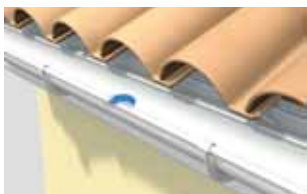
## 1 - FITTING THE GUTTER PROFILE (continued)

### d. Fitting the gutter



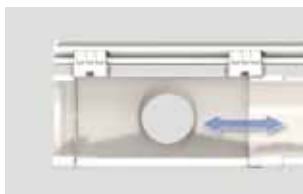
#### 1 Cutting the profile

- Cut the profile with a handsaw and smooth the edges with fine emery paper.



#### 2 Fitting the gutter

- Place the back of the gutter first and then engage the profile into the front of the bracket.



#### 3 Adjusting the profile in the expansion outlet

- Slot the gutter profile into the expansion outlet, aligning the end against the ambient temperature mark.



#### 4 Fitting a solvent weld or rubber gasket stopend

- Apply a regular line of glue in the stopend grooves.
- Apply glue to the smooth inside surface of the stopend.
- Assemble immediately with a straight movement.
- The seal joint stopend is clipped (from back to front) into the gutter profile.



### e. Fitting an angle with a solvent weld fitting



- Apply a regular line of glue in the fitting grooves.
- Apply glue to the smooth inside surface of the stopend.
- Assemble immediately with a straight movement.
- Wait a few minutes before handling.
- Make a visual check to see that the angle is properly solvent weld to the profile.



### f. Fitting a rubber gasket angle and rubber gasket union part



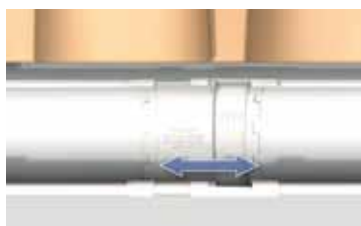
- Fit the union part to the fascia board and clip the gutter inside, starting with the heel.
- Exactly align the ends of the gutter parts with the marks etched into the fittings.
- A seal joint gutter angle should be supported by 2 gutter brackets no more than 5cm apart.



### g. Fitting a 25 expansion piece



- Apply a regular line of glue in the fitting grooves. Spread glue over the smooth inside surface. Assemble immediately with a straight movement.
- If there are more than 2m between 2 angles, it is best to fit a 25 expansion piece.
- Slide the 25 expansion piece until it is aligned with the ambient temperature mark.



### THE NICOLL EXTRA

- See the videos and assembly steps on:  
[www.nicoll.fr](http://www.nicoll.fr)

NB: solvent weld fittings should never be used with rubber gasket fittings.



## 2 - FITTING THE DOWNPIPE

### a. Preparing the S fitting



- Prepare the top S by joining 2 bends with a piece of pipe for half-round at least 46mm long.
- Do not glue the first bend to the outlet so they will come apart easily but do glue the bend sockets to the downpipe.

### b. Fitting the downpipe clamps



- Mark the position of the first pipe bracket.
- This must be under the S fitting.
- Use a plumb line and square to mark the vertical alignment on the wall.
- Do a "dummy" assembly of the pipes to mark the position of the pipe brackets. To prevent the parts from sliding down, fix a clamp under each fitting.
- Fasten the clamps to the wall with brackets or dowel pins.
- To hold the downpipe, put clamps at approx. 2m intervals.
- The pipe is fastened by clipping the clamps. These can only be unclipped with a screwdriver.
- Use a fitting to join 2 downpipes. The male socket must be glued but the female socket allowed to expand freely when the pipe is placed against the mark.



### d. Fitting the downpipes



- Cut the downpipe using a handsaw and the OVATION® cutting gauge. Smooth the edges with fine emery paper.
- Put the pipes in place and close the clamps.
- If there are 2 sections of roof to service, use a downpipe collector or a branch.

### e. Fitting the reinforced bottom downpipe

- Slot the reinforced bottom downpipe into the standard downpipe with the end of the pipe facing the mark etched on the shoe
- Remember to put a pipe bracket under the downpipe fitting.



### f. Connecting to a rainwater inspection box or round storm drain



- The universal outlet is connected at one end to the half-round downpipe, facing the temperature mark, and at the other to a round pipe or catch basin. The TD95 downpipe is connected to a storm drain with centric or eccentric outlets.



# 16 HALF-ROUND

The usual format for small roofs.

The **16 half-round** gutter system is the best solution for small roofs. It is very easy to fit and can be used with most roofing materials.



## ADVANTAGES

- Easy to fit.
- Can be used with most roofing materials (thick or thin) including glass and plastic.
- Hydraulic capacity adequate for small roofs.
- One end piece for 4 functions with the universal gutter stopend and outlet stopend.

### Co-extrusion



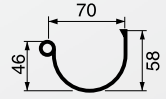


The inside surface is partly made of recycled PVC. The outside surface is perfect because it is made of new PVC with a concentration of pigments developed to resist ultra-violet rays.

### Marking

All the profiles and fittings are marked so they are easy to identify for making extensions.















## TECHNICAL FEATURES

LG 16 Half-round	Gutter profile	Downpipe
Used for	Garden sheds, verandas	
Characteristics	For small surfaces	
Shape		
Assembly	Rubber gasket system	
Measurements		
Hydraulics		
Budget	€	
Material	Polyvinyl chloride	
Profile	½ round developed to 16	Round Ø 50
Section	24.8 cm <sup>2</sup>	Ø 50 = 17.3 cm <sup>2</sup>
Flat roof area served by a collector	20 m <sup>2</sup>	Ø 50 = 20 m <sup>2</sup>
Colours	Light Grey    White	Sand    Brown



# 16 HALF-ROUND Profile and Downpipe

16 Ø 50 half-round gutter and downpipe system

Description	Light Grey	White	Sand	Brown		
<b>GUTTER AND DOWNPIPE PROFILE</b>						
Length 4 m.	<b>LG16</b>	<b>LG16B</b>	<b>LG16S</b>	<b>LG16M</b>		
Length 2 m.	<b>LG162</b>	<b>LG162B</b>	<b>LG162S</b>	<b>LG162M</b>		
Length 4 m.	<b>TD50</b>	<b>TD50B</b>	<b>TD50S</b>	<b>TD50M</b>		
<b>RUBBER GASKET FITTINGS</b>						
Central outlet	<b>NC16</b>	<b>NC16B</b>	<b>NC16S</b>	<b>NC16M</b>		
Fitting	<b>JN16</b>	<b>JN16B</b>	<b>JN16S</b>	<b>JN16M</b>		
90° inside angle	<b>AI16</b>	<b>AI16B</b>	<b>AI16S</b>	<b>AI16M</b>		
90° outside angle	<b>AE16</b>	<b>AE16B</b>	<b>AE16S</b>	<b>AE16M</b>		
Universal gutter and outlet stopend	<b>FCN16</b>	<b>FCN16B</b>	<b>FCN16S</b>	<b>FCN16M</b>		
<b>DOWNPIPE FITTINGS</b>						
67°30' single socket bend	<b>CJ6GT</b>	<b>CJ6GTB</b>	<b>CJ6GTS</b>	<b>CJ6GTM</b>		
87°30' single socket bend	<b>CJ8GT</b>	<b>CJ8GTB</b>	<b>CJ8GTS</b>	<b>CJ8GTM</b>		
67°30' single socket branch	<b>BJ16GT</b>	<b>BJ16GTB</b>	<b>BJ16GTS</b>	<b>BJ16GTM</b>		
45° single socket bend	<b>CJ4GT</b>	<b>CJ4GTB</b>	<b>CJ4GTS</b>	<b>CJ4GTM</b>		
Double socket pipe connector	<b>JJGT</b>	<b>JJGTB</b>	<b>JJGTS</b>	<b>JJGTM</b>		
Single socket coupling	<b>ZJGT</b>	<b>ZJGTB</b>	<b>ZJGTS</b>	<b>ZJGTM</b>		
<b>GUTTER BRACKETS</b>						
Fascia brackets	<b>GB1</b>	<b>GB1B</b>	<b>GB1S</b>	<b>GB1M</b>		
Corrugated roof bracket with set of wedges	<b>G04</b>	<b>G04B</b>	<b>G04S</b>	<b>G04M</b>		
Fitting system for outlets and union part with set of wedges	<b>2EM04</b>	<b>2EM04B</b>	<b>2EM04S</b>	<b>2EM04M</b>		
<b>PIPE BRACKETS</b>						
Pipe clip	<b>CO50GT</b>	<b>CO50GTB</b>	<b>CO50GTS</b>	<b>CO50GTM</b>		
Safety strap	<b>AC50GT</b>					





# CATCH BASINS AND RAINWATER GULLIES

## DESCRIPTION

- Single piece with wedged female sockets to open with a hammer.
- Clip-on extension.
- Cover in light grey or sand (for pedestrian applications only), pre-cut for Ø 80 and 100 drainpipes.
- PVC grating in light grey or sand, withstands a load of 1.5T if the box is set in concrete.
- 30 x 30 PVC buffer in light grey or sand, withstands a load of 1.5T if the box is set in concrete.

### 25 x 25 catch basin (inside measurements)

Description	Light grey	Sand
<b>1</b> 25 x 25 PP box with Ø 100 sockets	<b>RPCT</b>	
<b>2</b> PP extension of +12.5cm	<b>RERPCT</b>	
<b>3</b> PP cover (pedestrian)	<b>CORPCT</b>	<b>CORPCTS</b>
<b>4</b> Frameless PVC grating, withstands a load of 1.5T when box set in concrete	<b>GR25</b>	<b>GR25S</b>
<b>5</b> Adapter for Ø 110mm pipes	<b>ZVT</b>	



### 30 x 30 catch basin (inside measurements)

Description	Light grey	Sand
<b>1</b> 30 x 30 PP box with Ø 100-125 sockets	<b>RETX</b>	
30 x 30 PP box with Ø 75-90-110 sockets	<b>RESV</b>	
<b>2</b> PP clip-on extension of +15cm for Ø 100 socket	<b>RERETX</b>	
<b>3</b> Clip-on PP cover (pedestrian)	<b>CORETX</b>	<b>CORETXS</b>
<b>4</b> Frameless PP buffer class A15 (1.5T)	<b>TR30</b>	<b>TR30S</b>
<b>5</b> Frameless PP grating class A15 (1.5T)	<b>GR30</b>	<b>GR30S</b>

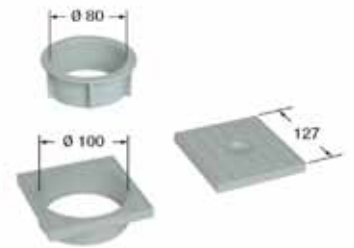




## Trapped rainwater gully

### HORIZONTAL OUTLET

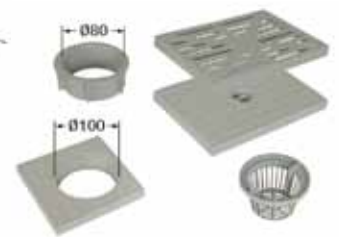
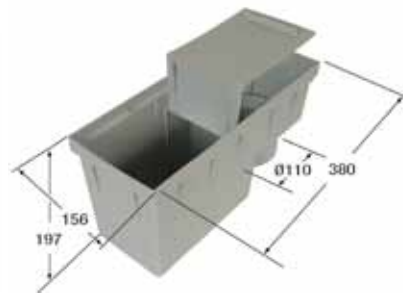
Reference	Light grey
Ø 80-100 inlets Horizontal outlet Ø 110	<b>RPCRTVH</b>



## Trapped rainwater gully

### VERTICAL OUTLET

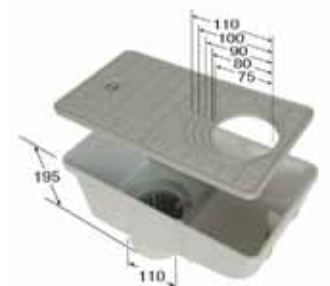
Reference	Light grey
Ø 80-100 inlets Vertical outlet Ø 110	<b>RPCRTVV</b>



## Untrapped rainwater gully

### VERTICAL OUTLET

Reference	Light grey
Inlets Ø 75-80-90-100-110 Vertical outlet Ø 110	<b>RPCPVVV</b>



No water seal to prevent formation of ice.



## DRIP EDGE

To guide rainwater and protect soffits.

The drip edge is designed to guide rainwater into the gutter when the eaves are not deep enough. This prevents the rainwater from penetrating between the façade and gutter. It also protects the fascia board.



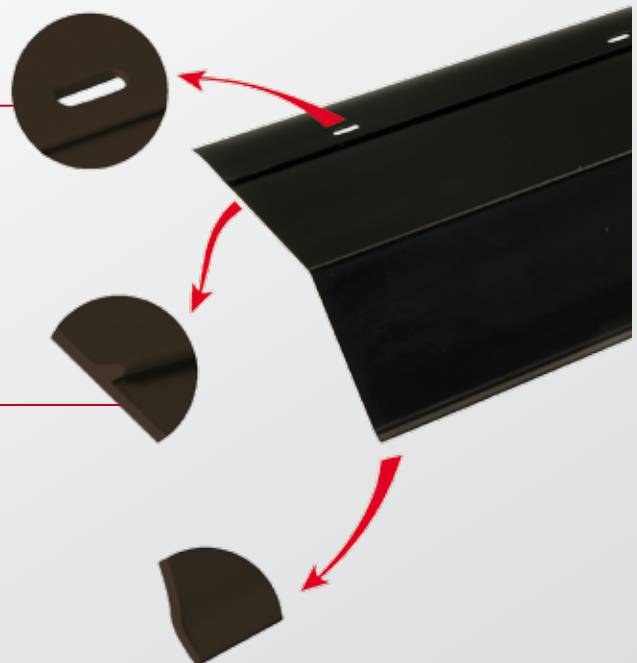
### ADVANTAGES

- Extruded PVC profile with anti-UV treatment, labelled **U**.
- Available in 7 colours: Light Grey, White, Sand, Brown, Red, Black and Green.

Oblong holes to fasten the drip edge.

Anti-capillarity ribbing to prevent damp rising up to the roof.

Drip groove to guide rainwater into the gutter.





# ASSEMBLY

## With slates



The drip edge is fastened onto the batten. Use big-headed nails and nail the drip edge through the oblong holes. Space the nails at regular intervals at most 50cm apart. The drip edge should reach at least 15mm into the profile depending on the gutter model.

## With tiles



When the tiles do not reach far enough into the gutter, rainwater is likely to penetrate between the facing board and the gutter.



The drip edge guides the rainwater into the gutter and prevents it from penetrating into the facing board.



The drip edge is fastened to the end roof batten. Use big-headed nails and nail the drip edge through the oblong holes. Space the nails at regular intervals at most 50cm apart. The drip edge should reach at least 15mm into the profile depending on the gutter model.

## Joining and fastening 2 sections of drip edge



Cut 10cm across the anti-capillarity ribbing with a knife. Overlap the two sections without gluing, having regard to the prevailing wind. Match 2 oblong holes and nail the profiles together.



When the 2 drip edge sections have been joined, nail them in place with big-headed nails at regular intervals at most 50cm apart.


## Fitting with roofing foil



The soffit screen lies on the top of the drip edge. It is nailed or stapled to it on the end supporting batten or facing board.

Description	light Grey	White	Sand	Brown	Red	Black	Green
Length 2 m.	<b>LARM18</b>	<b>LARM18B</b>	<b>LARM18S</b>	<b>LARM18M</b>	<b>LARM18R</b>	<b>LARM18N</b>	<b>LARM18V</b>

Packs: 10 lengths of 2m



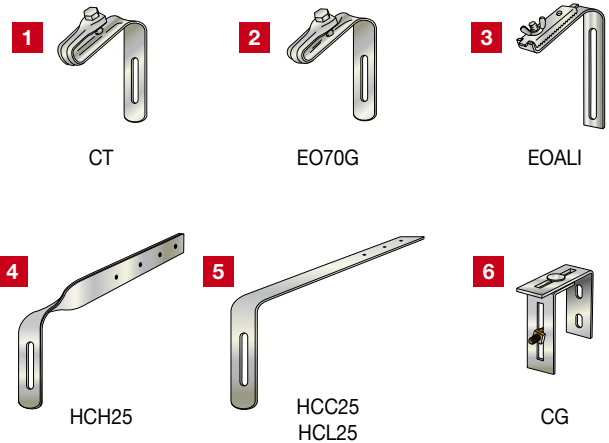




# ACCESSORIES

## Metal accessories

Description	
<b>1</b> Galvanised tile bracket	<b>CT</b>
<b>2</b> Galvanised bracket	<b>EO70G</b>
<b>3</b> Galvanised "alligator" bracket, adjustable from 3 to 38mm	<b>EOALI</b>
<b>4</b> Galvanised twisted bracket	<b>HCH25</b>
<b>5</b> Galvanised bracket length 235mm	<b>HCC25</b>
Galvanised bracket length 335mm	<b>HCL25</b>
<b>6</b> Galvanised Redwork bracket for 25 and 33 brackets	<b>CG</b>
for 28 and 38 brackets	<b>CGO</b>



## Plug screws



Lengths (mm)	30	40	50	60
Ref.	<b>PV3</b>	<b>PV3</b>	<b>PV3</b>	<b>PV3</b>

Packs: box of 100 plug screws  
Plugs sold separately in boxes of 100



Lengths (mm)	30	40	50
Ref.	<b>PV12</b>	<b>PV16</b>	<b>PV20</b>

Packs: box of 50 plug screws  
and 50 plugs + 1 spanner

## Leafguard for outlets Ø 80 - Ø 100 - Ovation®

### USE

- To prevent downpipes getting blocked by leaves, pine needles or moss.
- The Nicoll leafguard is the solution to keep the water flowing freely in the gutters.
- It can be fitted to all Ø 80 and Ø 100 outlets and outlets in the Ovation® system.

### DESCRIPTION

- Entirely made of black polypropylene with anti-UV reinforcement and shock resistance.



Description	
Outlets Ø 80 - 100 90x56 - 105x76	<b>CRAP</b>

## Ø 50 and Ø 80 rainwater outlets for gutter eaves

### FOR EASY FITTING TO ALL FLAT-BOTTOMED GUTTERS:

- Without restricting water flow.
- Preventing leaves from entering.

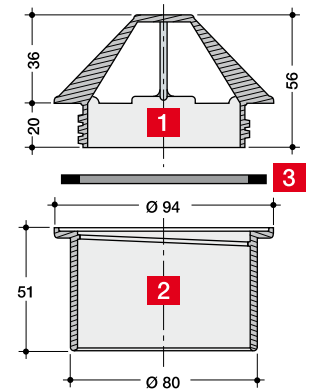
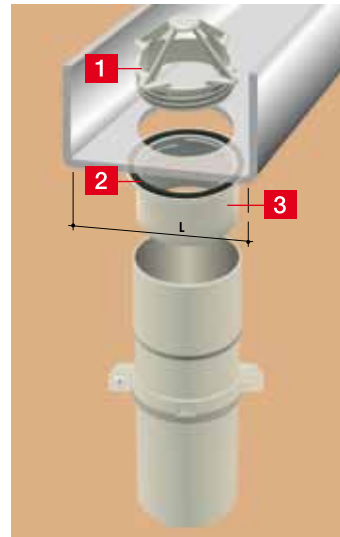
### DESCRIPTION

- Entirely made of grey polyvinyl chloride (PVC), the collectors include:

- 1** a leafguard: designed to keep the water flowing freely in the gutter.
- 2** a body with a sealing joint.
- 3** a male end for a downpipe of Ø 50 and Ø 80. It screws onto the leafguard.

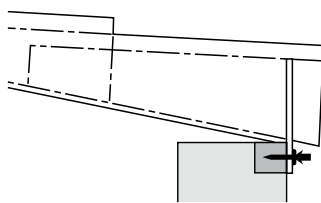
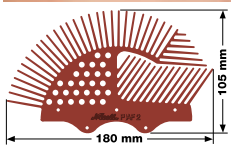
### ASSEMBLY

- Make a hole with a crown saw in the bottom of the gutter and assemble the parts on it.
- Slot in the downpipe without gluing so that it can be easily removed.



Ø	References	Ø of crown saw to use
Ø 50	<b>NPC50</b>	<b>44 ou 48</b>
Ø 80	<b>NPC80</b>	<b>73</b>

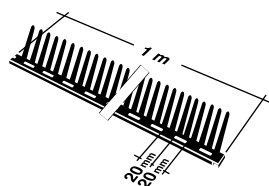
## Bird stop



- This is fitted under the curve of a tile and easily adapts the shape owing to its flexibility.
- Tile colour to blend in discreetly.

Description	Tile
Bird Stop	<b>PIAF2</b>

## Bird combs



- The seal is fitted before the roof and nailed onto the batten, usually below the front row of tiles or corrugated sheets.

Description	Tile
Bird comb	<b>KLOTR</b>



**BUILDING - SANITARY - ENVIRONMENT**

*NICOLL is ISO 9001v2008 and ISO14001v2004 certified*

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