



# NewPlas

BuildingProducts



## Rainwater Systems

Issue 1

[www.newplas.co.uk](http://www.newplas.co.uk)

# Contents



## Standard Gutters

- Easy to fit with a complete range of colour matched fittings
- Choice of 4 designs
- 10 year guarantee\*
- High gloss finish with a choice of up to 5 colours
- Lightweight for ease of storage and transportation
- Low maintenance
- Durable and tough
- Kitemarked

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4-9



KM 508760

## SuperDeep 170

- Exceptionally strong components
- High capacity super deep system for commercial application
- Designed for high volume capture
- Market leading flow capacity
- Choice of downpipe sizes
- 10 year guarantee\*
- High gloss finish in black and grey

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KM 508760

## Cast Iron Effect Gutters 12-14

- Authentic cast iron look without the weight or cost
- Choice of 3 designs
- Square or round downpipes
- Unique pipe fittings with built in saddle strap
- Durable and tough

\*Excludes Caramel and Grey.

**NewPlas**  
**BuildingProducts**

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## NewPlas has an extensive range of Rainwater products

that is ideal for builders merchants and PVC stockists. NewPlas is easy to deal with having a straight forward pricing structure and a national delivery service with low minimum order levels.

NewPlas can be specified with confidence. The technical team are there to help with questions concerning flow rates and installation procedures.

NewPlas installers have a wide choice of rainwater products, and the quality and fit of the clipping system is widely regarded as excellent.



**SuperDeep170** market leading capacity, super strong components



**Cast Iron Effect** complete system with bespoke components for an authentic cast iron appearance.



**Rise/Fall Brackets** are galvanised or zinc plated for excellent water resistance.

## Accessories

### Rise and Fall Bracket (Half Round)

	Code	Pk	Colour
	NPKFRB	1	

### Side Rafter Bracket

	Code	Pk	Colour
	NPKFSRB	1	

### Rise and Fall Bracket (Square)

	Code	Pk	Colour
	NPKFRBS	1	

### Top Rafter Bracket

	Code	Pk	Colour
	NPKFTRB	1	

### Rise & Fall Bracket (Universal)

	Code	Pk	Colour
	NPKFRBU	1	

### Rainwater Diverter and Leaf Trap

	Code	Pk	Colour
	NPKFRD1	1	W, BL

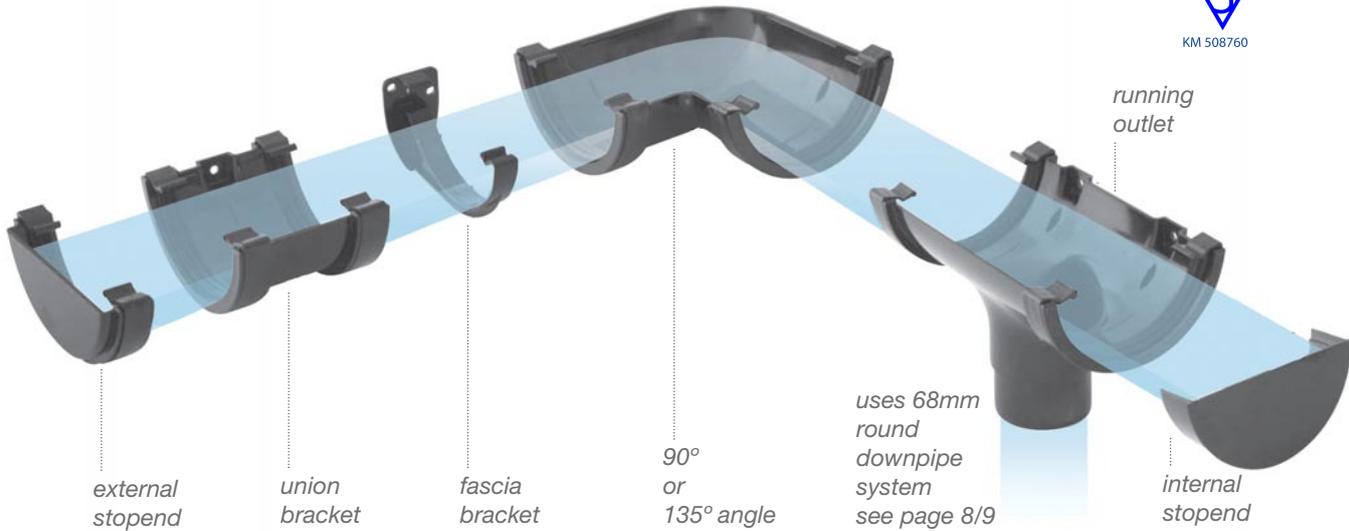
### Hopper (Square/Round)

	Code	Pk	Colour
	NPKFHS1	10	W, BL, BR, C, GY

Metal brackets are galvanised or zinc plated for excellent water resistance.

# Half Round Gutter

Height	Width	Flow Rate	Area Drained	Down Pipe
50mm	112mm	0.9 l/s	43m <sup>2</sup>	Round (P8)



## Half Round Gutter

	Code	Pk	Colour
	NPKFG4	6x4m	W, BL, BR, GY,
	NPKFG5	6x5m	W, BL

## Running Outlet

	Code	Pk	Colour
	NPKFO1	20	W, BL, BR, GY

## 90° Angle

	Code	Pk	Colour
	NPKFA1	20	W, BL, BR, GY

## Square/Round Gutter Adaptor

	Code	Pk	Colour
	NPKFDS3	10	W, BL, BR

## 135° Angle

	Code	Pk	Colour
	NPKFA2	20	W, BL, BR, GY

## Round/Ogee Gutter Adaptors

	Code	Pk	Colour
	NPKFD7	1	W, BL
	NPKFD8	1	W, BL

## External/Internal Stopends

	Code	Pk	Colour
	NPKFE1	100	W, BL, BR, GY
	NPKFE2	20	W, BL, BR, GY

## Side Rafter Bracket

	Code	Pk	Colour
	NPKFSRB	1	

## Fascia Bracket

	Code	Pk	Colour
	NPKFK1	100	W, BL, BR, GY

## Top Rafter Bracket

	Code	Pk	Colour
	NPKFTRB	1	

## Union Bracket

	Code	Pk	Colour
	NPKFU1	30	W, BL, BR, GY

## Hopper (square/round)

	Code	Pk	Colour
	NPKFHS1	10	W, BL, BR, C, GY

h 150 x w 247 x d 165mm

\*Gutter adaptors - description denotes which side each section is on when looking at the building.

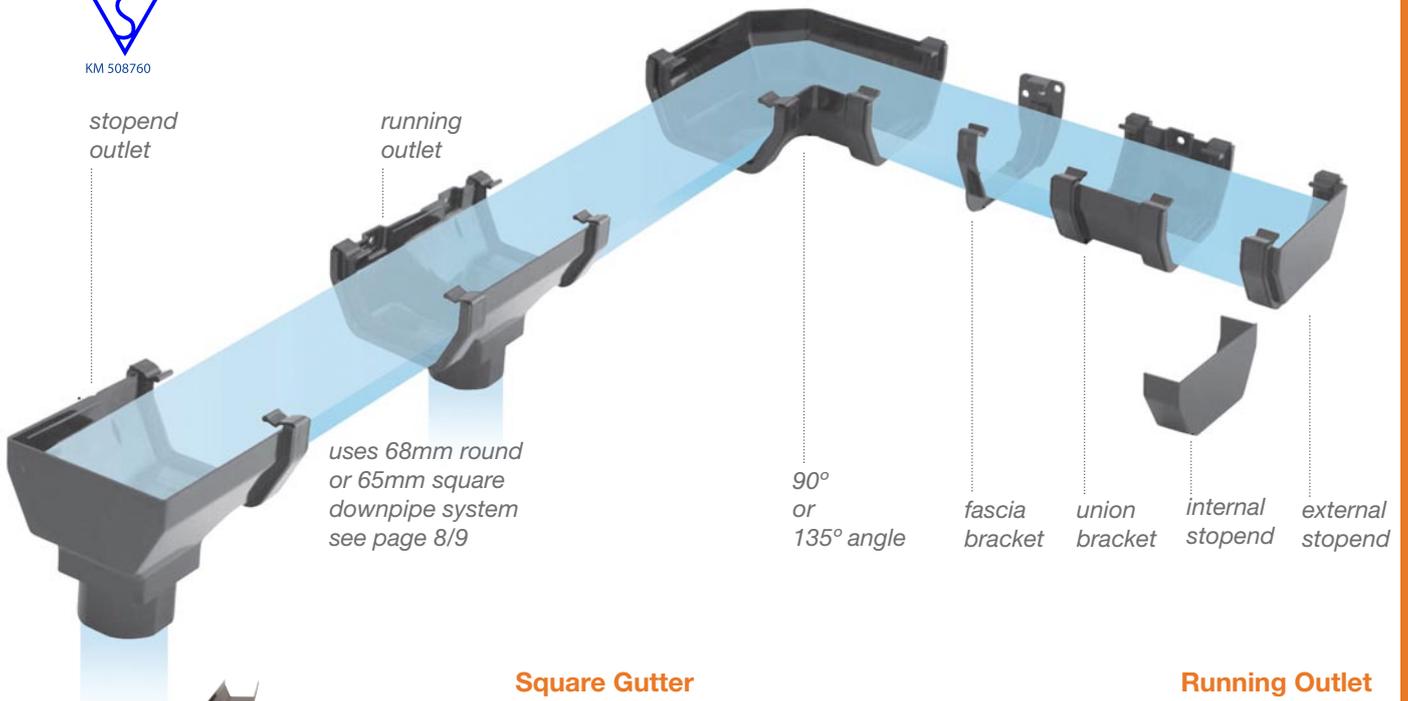
Add suffix as follows for colours: W=White, BL=Black, BR=Brown, C=Caramel, GY=Grey  
**Note:** Please order as single items but in multiples of pack quantity only

Height	Width	Flow Rate	Area Drained	Down Pipe
57mm	117mm	1.6 l/s	76m <sup>2</sup>	Round/Square (P8/9)

# Square Gutter



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### Square Gutter

### Running Outlet

	Code	Pk	Colour
	NPKFG4	6x4m	W, BL, BR, C
	NPKFG5	6x5m	W, BL, BR

	Code	Pk	Colour
	NPKFOS1	20	W, BL, BR, C

### 90° Angle

### Stopend Outlet

	Code	Pk	Colour
	NPKFAS1	10	W, BL, BR, C

	Code	Pk	Colour
	NPKFOS2	20	W, BL, BR, C

### 135° Angle

### Square/Round Gutter Adaptor

	Code	Pk	Colour
	NPKFAS2	10	W, BL, BR, C

	Code	Pk	Colour
	NPKFDS3	10	W, BL, BR

### External / Internal Stopend

### Square/Ogee Gutter Adaptors

	Code	Pk	Colour
	NPKFES1	100	W, BL, BR, C
	NPKFES2	20	W, BL, BR

	Code	Pk	Colour
	NPKFD5	1	W, BL
	NPKFD6	1	W, BL

### Fascia Bracket

### Side Rafter Bracket

	Code	Pk	Colour
	NPKFKS1	100	W, BL, BR, C

	Code	Pk	Colour
	NPKFSRB	1	

### Union Bracket

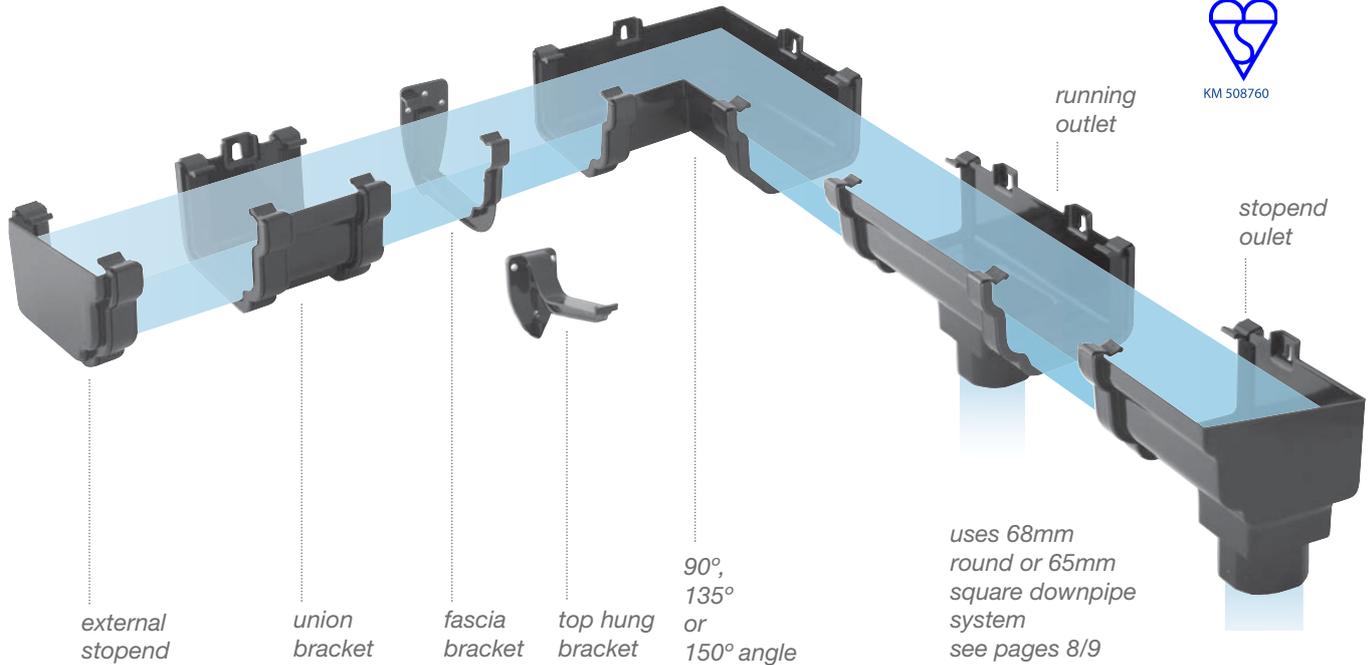
### Top Rafter Bracket

	Code	Pk	Colour
	NPKFUS1	30	W, BL, BR, C

	Code	Pk	Colour
	NPKFTRB	1	

# Ogee Gutter

Height	Width	Flow Rate	Area Drained	Down Pipe
70mm	120mm	2.2 l/s	105m <sup>2</sup>	Round/Square (P8/9)



Ogee Gutter				External Stopend				
Image	Code	Pk	Colour	Image	Code	Pk	Colour	
	NPOGG4	4x4m	W, BL, BR, C		NPOGE1(L) NPOGE2(R)	10 10	W, BL, BR, C	
90° Internal Angle				Gutter Brackets				
	NPOGA1	10	W, BL, BR, C		NPOGK1 NPOGK2	100 20	W, BL, BR, C	
90° External Angle				Running Outlet				
	NPOGA2	10	W, BL, BR, C		NPOGO1	10	W, BL, BR, C	
135° Internal Angle				Stopend Outlets				
	NPOGA3	10	W, BL, BR, C		NPOGO2(R) NPOGO3(L)	10 10	W, BL, BR, C	
135° & 150° External Angles				Square/Ogee Gutter Adaptors				
	NPOGA4 NPOGA5	10 4	W, BL, BR, C		*ogee/square square/ogee	NPKFD5 NPKFD6	1 1	W, BL W, BL
Union Bracket				Round/Ogee Gutter Adaptors				
	NPOGU1	8	W, BL, BR, C		*ogee/round *round/ogee	NPKFD7 NPKFD8	1 1	W, BL W, BL

\*Gutter adaptors - description denotes which side each section is on when looking at the building.

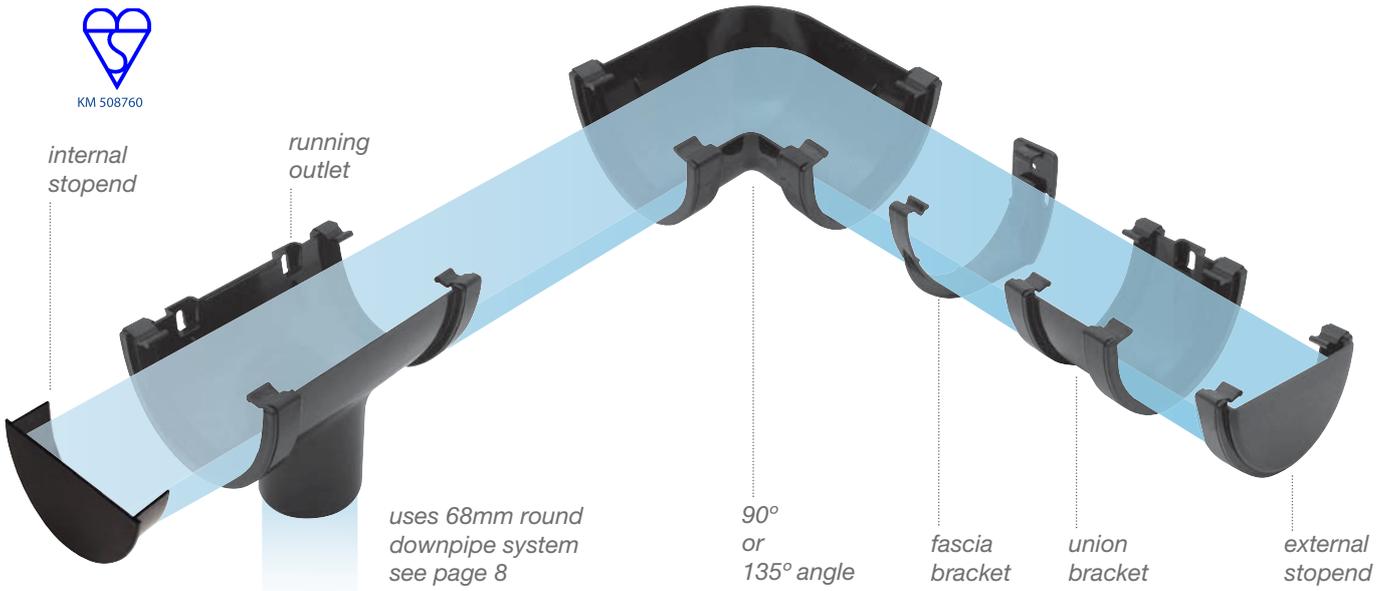
Add suffix as follows for colours: W=White, BL=Black, BR=Brown, C=Caramel  
**Note:** Please order as single items but in multiples of pack quantity only

Height	Width	Flow Rate	Area Drained	Down Pipe
71mm	114mm	1.8 l/s	86m <sup>2</sup>	Round (P8/9)

# Deep Gutter



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### Deep Gutter

	Code	Pk	Colour
	NPKDG4	6x4m	W, BL, BR

### Fascia Bracket

	Code	Pk	Colour
	NPKDK1	100	W, BL, BR

### 90° Angle

	Code	Pk	Colour
	NPKDA1	4	W, BL, BR

### Running Outlet

	Code	Pk	Colour
	NPKDO1	10	W, BL, BR

### 135° Angle

	Code	Pk	Colour
	NPKDA2	4	W, BL, BR

### Union Bracket

	Code	Pk	Colour
	NPKDU1	10	W, BL, BR

### External Stopend

	Code	Pk	Colour
	NPKDE1	10	W, BL, BR,

### Internal Stopend

	Code	Pk	Colour
	NPKDE2	10	W, BL, BR

## Accessories

### Rainwater Diverter and Leaf Trap

	Code	Pk	Colour
	NPKFRD1	1	W, BL,

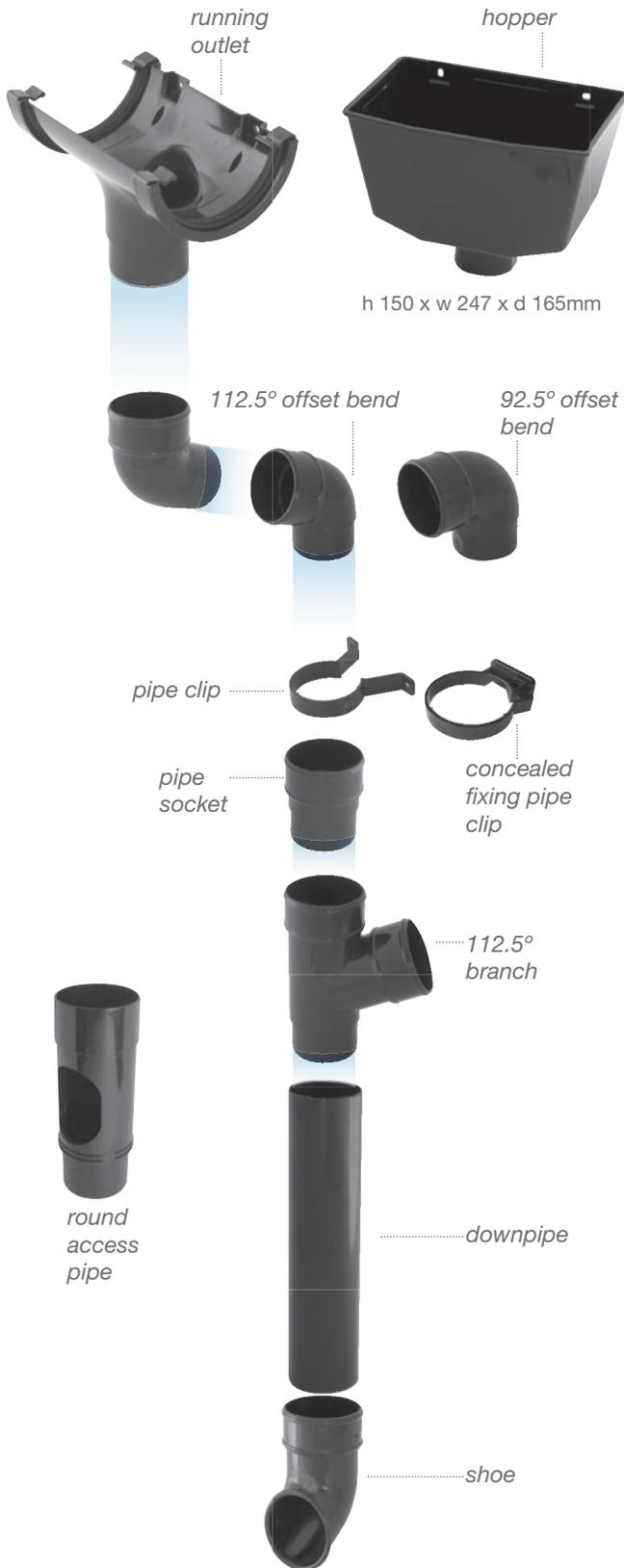
### Hopper (Square/Round)

	Code	Pk	Colour
	NPKFHS1	10	W, BL, BR, C, GY

h 150 x w 247 x d 165mm

# Round Down Pipe

- 68mm diameter
- Use with Half Round, Square, Ogee & Deep Gutter



## Round Down Pipe

	Code	Pk	Colour
2.5m	NPKFP25	6	W, BL, BR, C, GY
4m	NPKFP4	6	W, BL, BR
5.5m	NPKFP55	6	W, BL, BR, GR

## 92.5° Offset Bend

	NPKFB1	20	W, BL, BR, C, GY
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## 112.5° Offset Bend

	NPKFB2	30	W, BL, BR, C, GY
--	--------	----	------------------

## Shoe

	NPKFB3	30	W, BL, BR, C, GY
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## Pipe Clip

	NPKFC1	100	W, BL, BR, C, GY
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## Concealed Fixing Pipe Clip

	NPOGC3	10	W, BL, BR, C
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## Square/Round Hopper

	NPKFHS1	10	W, BL, BR, C, GY
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## Pipe Socket

	NPKFS1	20	W, BL, BR, C, GY
--	--------	----	------------------

## 112.5° Branch

	NPKFY1	10	W, BL, BR, C, GY
--	--------	----	------------------

## Square/Round Down Pipe Adaptor

	NPKFDS2	10	W, BL, BR, C
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## Round Access Pipe

	NPKFAP	1	W, BL, BR
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Add suffix as follows for colours: W=White, BL=Black, BR=Brown, C=Caramel, GY=Grey  
**Note:** Please order as single items but in multiples of pack quantity only

- 65mm x 65mm
- use with Square And Ogee Gutter

# Square Down Pipe

## Square Down Pipe

		Code	Pk	Colour
	2.5m	NPKFPS25	6	W, BL, BR, C
	4m	NPKFPS4	6	W, BL, BR
	5.5m	NPKFPS55	6	W, BL, BR, C

## 92.5° Offset Bend

	NPKFBS1	20	W, BL, BR, C
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## 112.5° Offset Bend

	NPKFBS2	30	W, BL, BR, C
---	---------	----	--------------

## Shoe

	NPKFBS3	30	W, BL, BR, C
--	---------	----	--------------

## Pipe Clip

	NPKFCS1	100	W, BL, BR, C
---	---------	-----	--------------

## Pipe Clip (Flush)

	NPKFCS2	100	W, BL, BR, C
---	---------	-----	--------------

## Square/Round Hopper

	NPKFHS1	10	W, BL, BR, C, GY
---	---------	----	------------------

## Pipe Socket

	NPKFSS1	20	W, BL, BR, C
---	---------	----	--------------

## 112.5° Branch

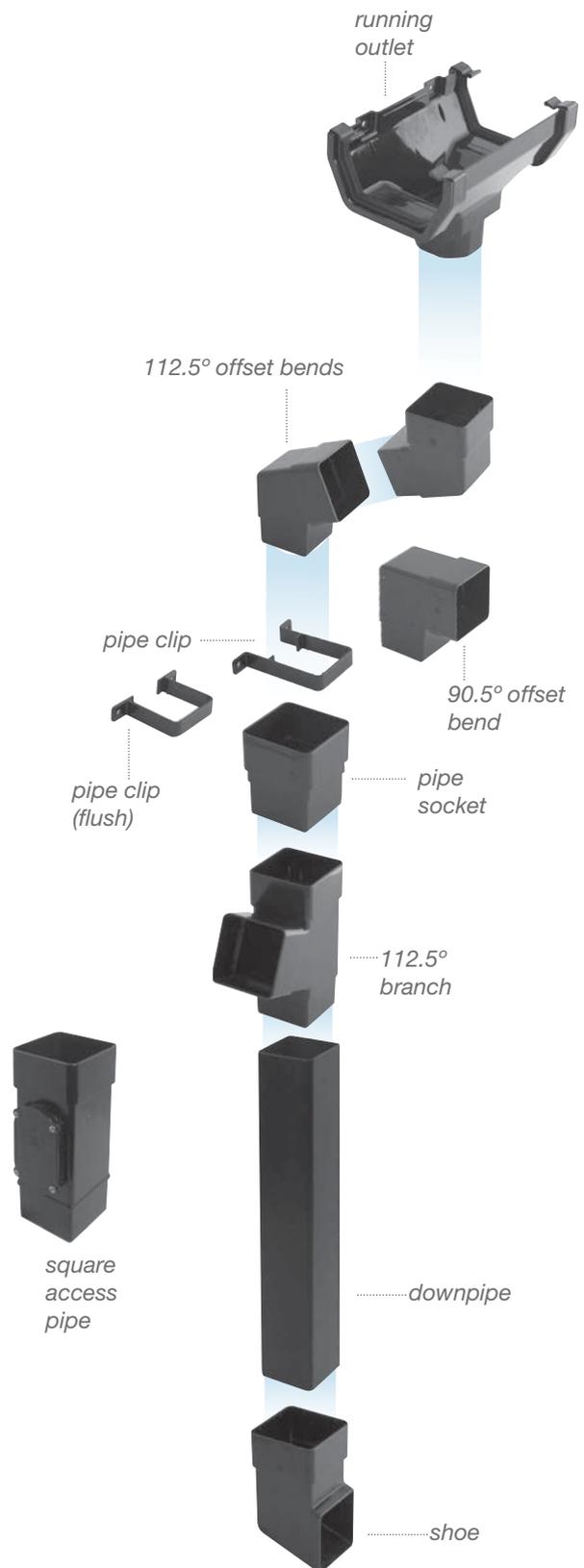
	NPKFYS1	10	W, BL, BR, C
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## Square/Round Down Pipe Adaptor

	NPKFDS2	10	W, BL, BR, C
---	---------	----	--------------

## Square Access Pipe

	NPKFSAP	1	W, BL, BR
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## SuperDeep 170

NewPlas SuperDeep 170 is a super tough, high capacity gutter for use on commercial buildings, hotels, flats and any structure that has a large roof area.

### Tough Construction

SuperDeep 170 has a high material content that ensures it can easily contain the weight of water that could potentially flow into its huge gutter profile. Each fascia bracket is capable of supporting over 125kg and the union can take over half as much again.

The gutter angles have been produced as individual internal and external versions. This allows positive fixing of each unit to the fascia board.

### High Capacity

SuperDeep 170 is one of the largest and toughest commercial rainwater systems available.

At 170mm from rim to rim SuperDeep 170 has a huge reservoir and is designed to move water rapidly into and down a 100mm or 110mm down pipe.

SuperDeep 170 has an independently tested, market leading flow rate of 9.4 litres per second when set level, and 10.5 litres per second when set at 1:350.

- Ultra tough, thick-wall system
- 170mm high capacity commercial system
- Designed for high volume capture
- White core reduces heat absorption
- Uses 100mm or 110mm downpipe
- Internal and external versions of angles
- Fix fascia brackets at maximum 600mm centres
- Kitemark KM508760 to BS EN 607:2004 and BS EN 1462:2004
- 10 year guarantee\*



**Conventional Deep Flow**  
(see page 5)



**SuperDeep 170**

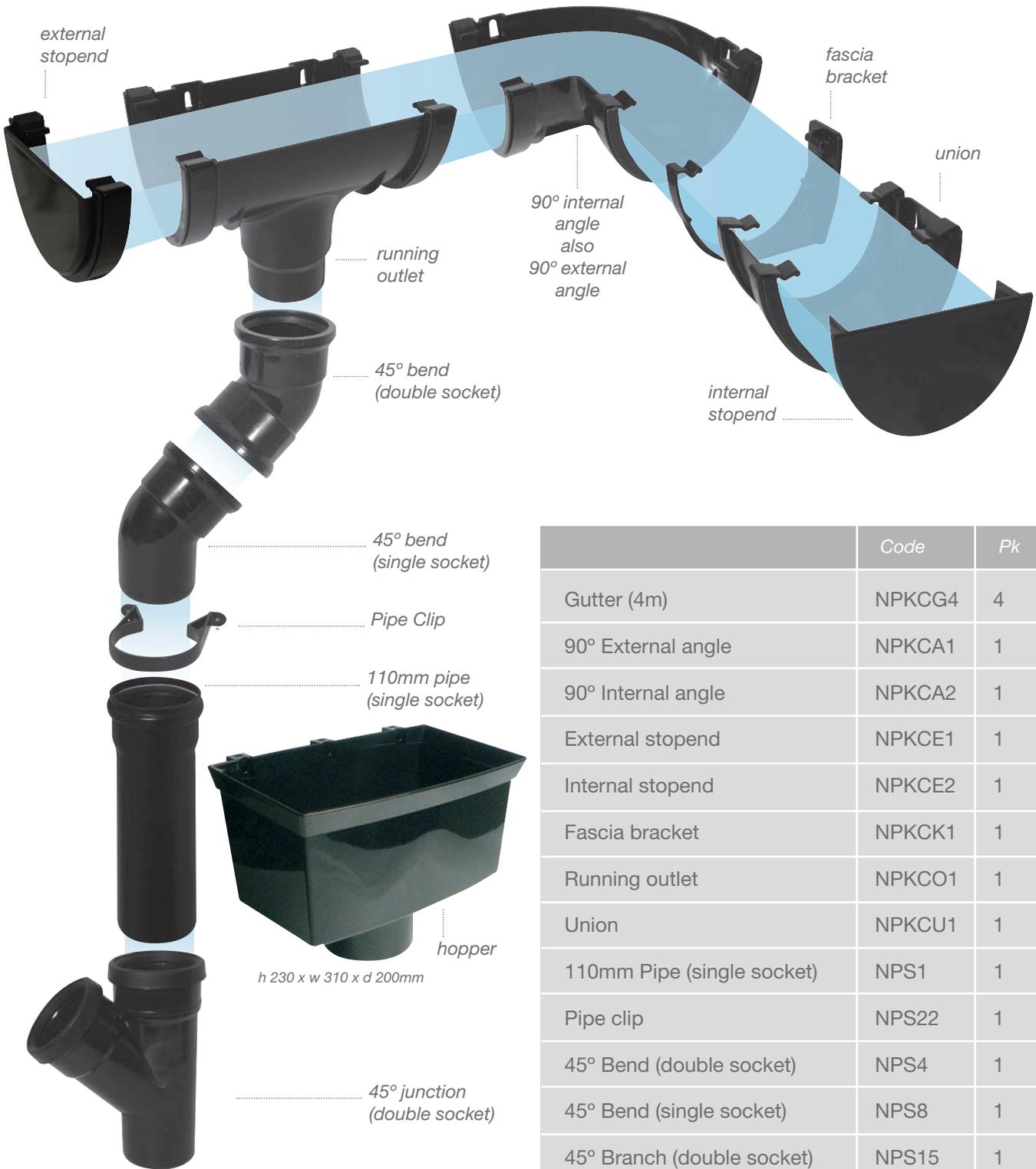
Add suffix as follows for colours: BL=Black, GY=Grey  
**Note:** Please order as single items but in multiples of pack quantity only  
 \*excludes grey



KM 508760

Height	Width	Flow Rate	Area Drained	Down Pipe
108mm	170mm	9.4 l/s	450m <sup>2</sup>	Soil

# SuperDeep 170

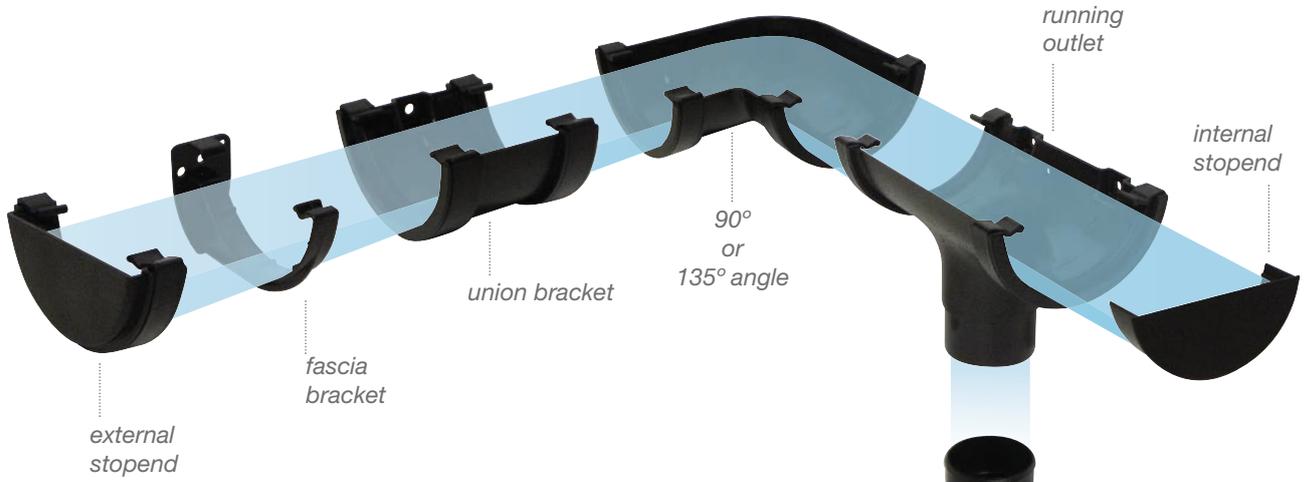


	Code	Pk
Gutter (4m)	NPKCG4	4
90° External angle	NPKCA1	1
90° Internal angle	NPKCA2	1
External stopend	NPKCE1	1
Internal stopend	NPKCE2	1
Fascia bracket	NPKCK1	1
Running outlet	NPKCO1	1
Union	NPKCU1	1
110mm Pipe (single socket)	NPS1	1
Pipe clip	NPS22	1
45° Bend (double socket)	NPS4	1
45° Bend (single socket)	NPS8	1
45° Branch (double socket)	NPS15	1
45° Branch (triple socket)	NPS13	1
Coupler	NPS16	1
Hopper	NPKCH1	1

A full range of downpipe compatible components are shown in the UDS Underground & Soil Systems Product Guide  
 Add suffix as follows for colours: BL=Black, GY=Grey

# Cast Iron Effect Half Round Gutter

Height	Width	Flow Rate	Area Drained	Down Pipe
50mm	112mm	0.9 l/s	43m <sup>2</sup>	Round



	Code	Pk
Gutter (4m)	NPKFG4	1
90° Angle	NPKFA1	1
135° Angle	NPKFA2	1
External stopend	NPKFE1	1
Internal stopend	NPKFE2	1
Fascia bracket	NPKFK1	1
Running outlet	NPKFO1	1
Union bracket	NPKFU1	1
Round downpipe (2.5m)	NPKFP2.5	1
92.5° Offset bend	NPKFB1	1
112.5° Offset bend	NPKFB2	1
Shoe with lugs	NPKFB4	1
Pipe clip with lugs	NPKFC2	1
Hopper with lugs	NPKFHS2	1
Pipe socket with lugs	NPKFS2	1
112.5° Branch	NPKFY1	1



### Cast Iron Effect

Complete system with bespoke components for an authentic cast iron appearance.

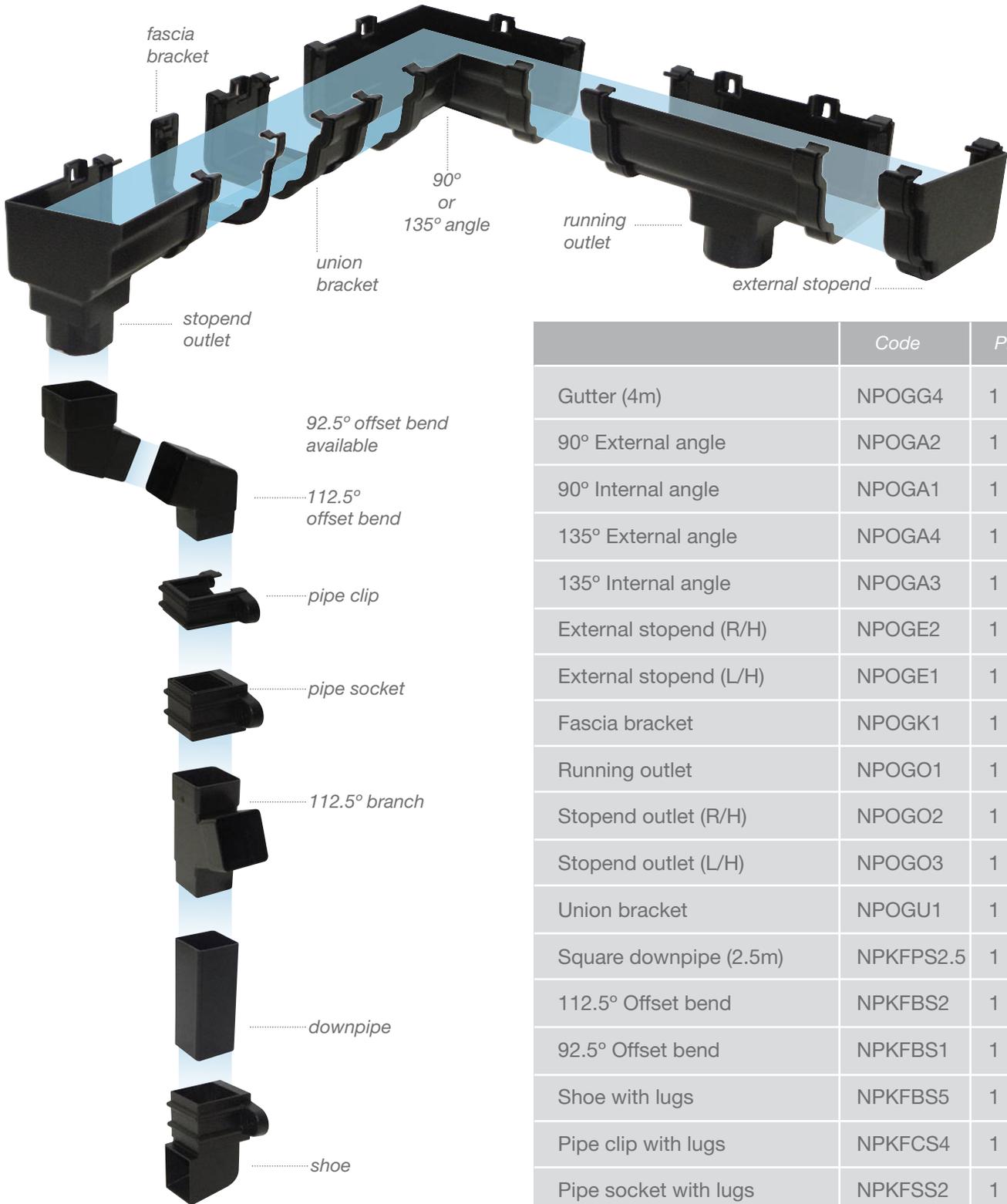


h 258 x w 312 x d 210mm

Add suffix as follows for colours: CB=Cast Black

Height	Width	Flow Rate	Area Drained	Down Pipe
70mm	120mm	2.2 l/s	105m <sup>2</sup>	Round/Square

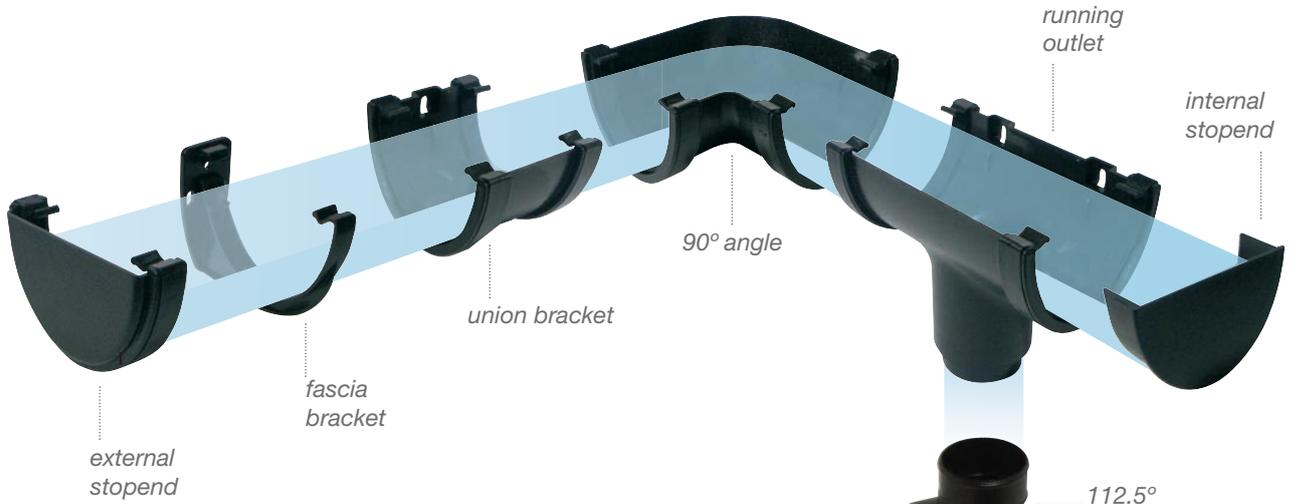
# Cast Iron Effect Ogee Gutter



	Code	Pk
Gutter (4m)	NPOGG4	1
90° External angle	NPOGA2	1
90° Internal angle	NPOGA1	1
135° External angle	NPOGA4	1
135° Internal angle	NPOGA3	1
External stopend (R/H)	NPOGE2	1
External stopend (L/H)	NPOGE1	1
Fascia bracket	NPOGK1	1
Running outlet	NPOGO1	1
Stopend outlet (R/H)	NPOGO2	1
Stopend outlet (L/H)	NPOGO3	1
Union bracket	NPOGU1	1
Square downpipe (2.5m)	NPKFPS2.5	1
112.5° Offset bend	NPKFBS2	1
92.5° Offset bend	NPKFBS1	1
Shoe with lugs	NPKFBS5	1
Pipe clip with lugs	NPKFCS4	1
Pipe socket with lugs	NPKFSS2	1
112.5° Branch	NPKFYS1	1
Hopper with lugs	NPKFHS2	1

# Cast Iron Effect Deep Gutter

Height	Width	Flow Rate	Area Drained	Down Pipe
71mm	114mm	1.8 l/s	86m <sup>2</sup>	Round



	Code	Pk
Gutter (4m)	NPKDG4	1
90° Angle	NPKDA1	1
External stopend	NPKDE1	1
Internal stopend	NPKDE2	1
Fascia bracket	NPKDK1	1
Running outlet	NPKDO1	1
Union bracket	NPKDU1	1
Round downpipe (2.5m)	NPKFP2.5	1
92.5° Offset bend	NPKFB1	1
112.5° Offset bend	NPKFB2	1
Shoe with lugs	NPKFB4	1
Pipe clip with lugs	NPKFC2	1
Hopper with lugs	NPKFHS2	1
Pipe socket with lugs	NPKFS2	1
112.5° Branch	NPKFY1	1



Add suffix as follows for colours: CB=Cast Black

# Specification & Installation Guide for Guttering

## How much water?

The gutter system must be able to drain the roof during an unusually heavy rainfall event which lasts at least two minutes.

BS12056 shows how to work out the amount of rainwater (in litres per second) that could run off a roof.

The roof area is multiplied by the amount of water running off each square metre of the roof area in litres per second.

Volume of water coming off a roof = A x B where:

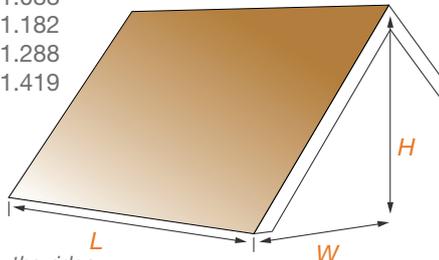
A = 0.021 litres per second.

B = the effective roof area, calculated as follows:

$(W+H/2) \times L$  or  $L \times W \times \text{Pitch factor}$  (see table)

## Roof Pitch Pitch Factor

10°	1.088
20°	1.182
30°	1.288
40°	1.419



W = eaves to below the ridge

H = vertical height from eaves to ridge

L = length of roof section

## Which Gutter to Choose

Compare the result of the calculation (AxB) with the flow capacity of the NewPlas systems available.

Please note the following:

1. Reduce flow rates of gutters with angles by 15%.
2. Gutter sections longer than 50 x the height of water when the gutter is full have a reduced flow rate.
3. Gutters are laid level - this can be up to 3mm fall per metre.
4. Centrally placed outlets drain a much larger volume of water.

## System Specifications

Gutter Type	Flow rate Central Outlet (gutter laid level)	Area Drained	'Short' length gutter	Downpipe
Round	0.9l/s	43m <sup>2</sup>	2.4m	68mm Round
Square	1.6l/s	76m <sup>2</sup>	2.7m	68mm Round, 65mm Square
Deepflow	1.8l/s	86m <sup>2</sup>	3.4m	68mm Round
Ogee	2.2l/s	105m <sup>2</sup>	3.4m	68mm Round, 65mm Square
SuperDeep 170	9.4l/s	450m <sup>2</sup>	5.45m	100/110mm Round
Cast Effect Round	0.9l/s	43m <sup>2</sup>	2.4m	68mm Round
Cast Effect Ogee	2.2l/s	105m <sup>2</sup>	3.4m	68mm Round, 65mm Square
Cast Effect Deep	1.8l/s	86m <sup>2</sup>	3.4m	68mm Round

**Important Information** The potentially adverse effects on a poorly secured gutter system of high intensity rainfall and periods of standing snow, with prolonged freeze/thaw loading, highlight the importance of following the recommended fixing centres and other gutter positioning advice. For further advice on the specification and installation of NewPlas gutters please email sales@newplas.co.uk or call 0845 9000 525.

## Installation

- Fascia brackets must be used within 150mm of any gutter fitting.
- Use all fixing positions on all unions, angles and outlets for all systems.
- Whilst it is best practice to make use of all available fixing holes for gutter brackets, the specification in the table (below) may be adopted. Ensure the fixings are long enough to penetrate the rear face of the board. If the cellular PVC fascia board is less than 16mm thick, install a backing board to accept gutter bracket fixings. The gutter should be fitted as high as possible but not such that the outer edge projects above the line of the roof.
- For all gutters, the tile overhang from the fascia board should not be more than 50mm.
- Where over fascia ventilation is used, it may be necessary to use a gutter spacer and height adjuster bracket in conjunction with fascia brackets to ensure the gutter is fitted in the optimum position.

## Specifications for gutter bracket fixings.

Gutter Type	Normal / Sheltered Areas	Snowfall / Exposed Areas	Max distance between brackets
Round	2 x 25 x 4mm or 1 x 32 x 5mm	2 x 25 x 5mm	1m
Square	2 x 25 x 4mm or 1 x 32 x 5mm	2 x 25 x 5mm	1m
Deepflow	2 x 25 x 4mm or 1 x 32 x 5mm	2 x 25 x 5mm	1m
Ogee	2 x 25 x 4mm or 1 x 32 x 5mm	2 x 25 x 5mm	800mm
SuperDeep 170	2 x 25 x 4mm or 1 x 32 x 6.5mm	3 x 32 x 6.5mm	600mm
Cast Effect	2 x 25 x 4mm	3 x 25 x 5mm	1m

(4mm = 8 gauge, 5mm = 10 gauge, 6.5mm = 12 gauge stainless steel pan head screw)



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