



FloPlast

W wienerberger

RAINWATER SYSTEMS



Rainwater Systems

FloPlast Rainwater Systems offer a wide choice of profile design, both traditional and modern, in a range of colours to suit all tastes and applications.

FloPlast Rainwater Systems benefit from a 10 Year Performance and Colour Guarantee on the black, white, brown, grey and anthracite ranges and 20 years for the 'Cast Iron' style systems. Register your guarantee online today.

The FloPlast Rainwater Systems have been awarded the prestigious BSI Kitemark (KM 501316) (excluding MiniFlo and 'Cast Iron' Style).

Range Benefits



Consistent Product Finish



Tough & Durable



Certified & Guaranteed



Resistant to Colour Fade

Accreditations



Please note when ordering:

Add the colour reference code to your order

B

Black

W

White

BR

Brown

G

Grey

AG

Anthracite Grey

CI

Cast Iron Style





HALF ROUND RAINWATER SYSTEM

112mm GUTTER and 68mm ROUND DOWNPIPE

DIMENSIONS

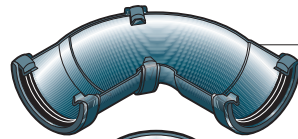


AVAILABLE COLOURS



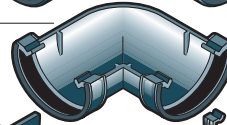


RA1
90° Angle



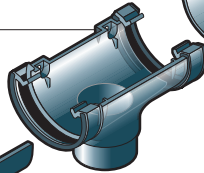
RA3
50-156° Adjustable Angle

RG2/3/4
Gutter



RK1
Fascia Bracket

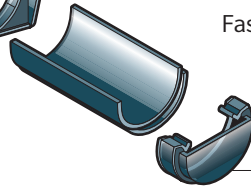
RO1
Running Outlet



RU1
Union Bracket



RE1
External Stopend



RE2
Internal Stopend



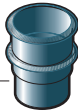
RB2
112½° Offset Bend



RP2.5/4/5.5
Downpipe



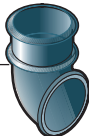
RS1
Pipe Socket



RC1
Pipe Clip



RB3
Shoe



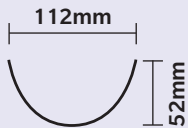
RC3
Single Fix Pipe Clip





HALF ROUND 112mm GUTTER AND FITTINGS

Standard: BS EN 607, BS EN 12200 -1, BS EN 1462 Kitemark: 501316 Material: PVC-U



Half Round Gutter



Size	Colour	Code
2m	<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RG2
3m	<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RG3
4m	<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RG4

Fascia Bracket



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RK1

8mm Universal Fascia Bracket Spacer



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W	RS9



- A traditional Half Round profile suitable for use on most domestic properties, including new build, refurbishments and repair applications.
- For use with 68mm Round downpipe.
- Fittings come with an insertion line to mark the gutter install point, allowing space for thermal expansion and contraction along the installation.
- Large range of adaptors is available allowing for connections to other rainwater systems.
- Capable of taking up to 113m² of roof area to each outlet (Based on an outlet positioned in the middle of a gutter run and the gutter fixed to a 1:350 fall.)

90° Angle Bend



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RA1

135° Angle Bend



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RA2

50 - 156° Adjustable Angle Bend



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR	RA3

Any Angle Bend



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR	RA9

Running Outlet



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RO1

Stopend Outlet



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RO2

External Stopend



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RE1

Internal Stopend



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RE2

Union Bracket



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RU1

Cast Iron Ogee Gutter Adaptor - Right



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W	RD3

Cast Iron Ogee Gutter Adaptor - Left



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W	RD4

Cast Iron Half Round Adaptor



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W	RD5



SQUARE LINE RAINWATER SYSTEM

114mm GUTTER and 65mm SQUARE DOWNPIPE

DIMENSIONS

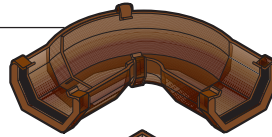


AVAILABLE COLOURS

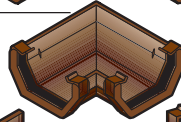




RAS3
50 - 156° Adjustable Angle

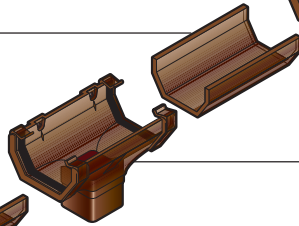


RAS1
90° Angle



RKS1
Fascia Bracket

RGS2/3/4
Gutter



RUS1
Union Bracket

ROS1
Running Outlet

RBS2
112½° Offset Bend

RES1
Stopend - External

RES2
Stopend - Internal

RCS1
Pipe Clip

RSS1
Pipe Socket

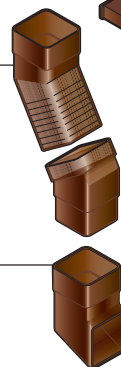
RCS2
Flush Pipe Clip
Allows downpipes to be
fixed flush to the wall.

RPS2.5/4/5.5
Pipe

RCS3
Single Fix
Pipe Clip

RBS5
Adjustable Offset Bend
Allows for a minimum offset of
25mm up to a maximum of 65mm.

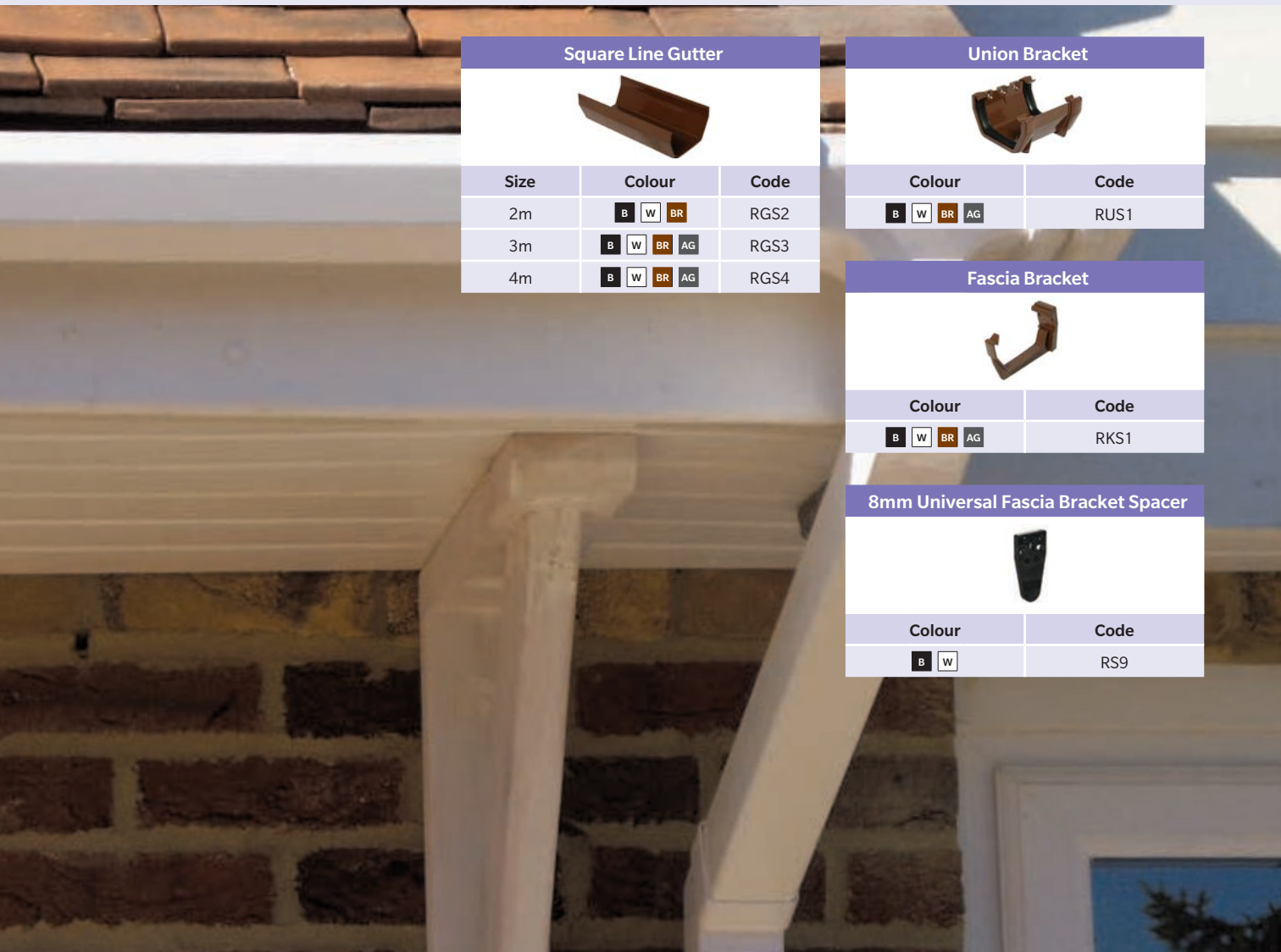
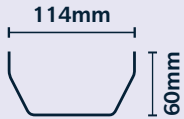
RBS3
Shoe





SQUARE LINE 114mm GUTTER AND FITTINGS

Standard: BS EN 607, BS EN 12200 -1, BS EN 1462 Kitemark: 501316 Material: PVC-U



Square Line Gutter		
		
Size	Colour	Code
2m	<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR	RGS2
3m	<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR <input type="checkbox"/> AG	RGS3
4m	<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR <input type="checkbox"/> AG	RGS4

Union Bracket	
	
Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR <input type="checkbox"/> AG	RUS1

Fascia Bracket	
	
Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR <input type="checkbox"/> AG	RKS1

8mm Universal Fascia Bracket Spacer	
	
Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W	RS9



- A modern rectilinear profile suitable for use on most domestic properties, including new build, refurbishments and repair applications.
- For use with 65mm Square downpipe.
- Fittings come with an insertion line to mark the gutter install point, allowing space for thermal expansion and contraction along the installation.
- Large range of adaptors available allowing for connections to other rainwater systems including Half Round and Cast Iron systems.
- Capable of taking up to 170m² of roof area to each outlet. (Based on an outlet positioned in the middle of a gutter run and the gutter fixed to a 1:350 fall.)

90° Angle Bend



Colour	Code
B W BR AG	RAS1

135° Angle Bend



Colour	Code
B W BR AG	RAS2

50 - 156° Adjustable Angle Bend



Colour	Code
B W BR	RAS3

Any Angle Bend



Colour	Code
B W BR AG	RAS9

Running Outlet



Colour	Code
B W BR AG	ROS1

Stopend Outlet



Colour	Code
B W BR AG	ROS2

External Stopend



Colour	Code
B W BR AG	RES1

Internal Stopend



Colour	Code
B W BR AG	RES2

Round to Square Gutter Adaptor



Colour	Code
B W BR	RDS1

R/H Square to Cast Iron Ogee Adaptor



Colour	Code
B W BR	RDS3

L/H Square to Cast Iron Ogee Adaptor



Colour	Code
B W BR	RDS4

Cast Iron Half Round Adaptor



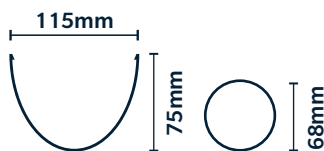
Colour	Code
B W BR	RDS5



HI-CAP RAINWATER SYSTEM

115mm GUTTER and 68mm ROUND DOWNPIPE

DIMENSIONS



AVAILABLE COLOURS



INFORMATION

ALSO COMPATIBLE WITH
80mm ROUND DOWNPIPE





RAH1
90° Angle

RGH4
Gutter

RKH1
Fascia Bracket

RUH1
Union Bracket

RUH2
Floating Union
Bracket

ROH1

Running Outlet
Will connect to 68mm round downpipe.
For 80mm pipe, use Running Outlet ROH4.

RKH2
Top Hung
Fascia Bracket

RB2
112½ Offset Bend

REH1
Stopend - External

REH2
Stopend - Internal

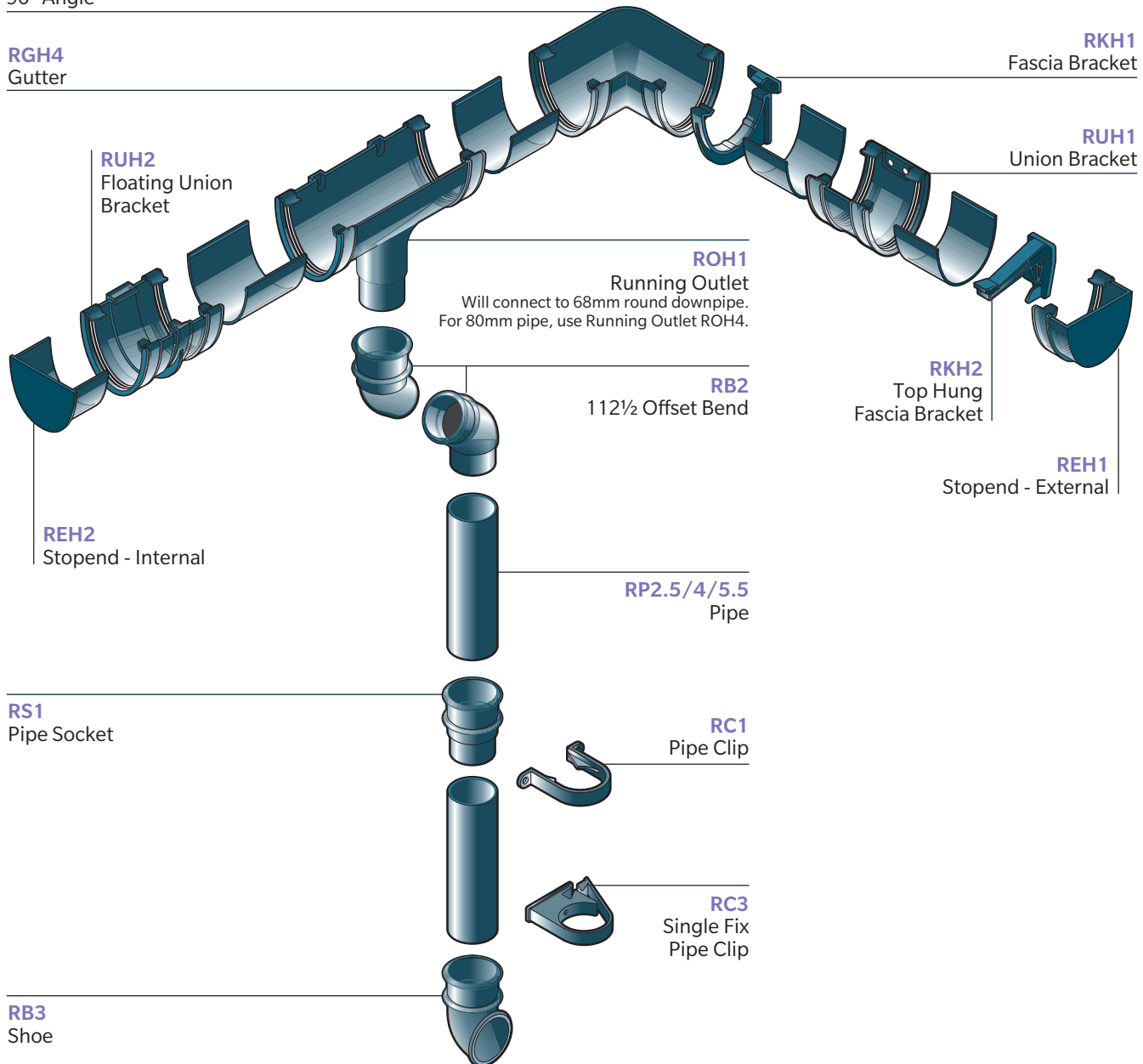
RP2.5/4/5.5
Pipe

RS1
Pipe Socket

RC1
Pipe Clip

RC3
Single Fix
Pipe Clip

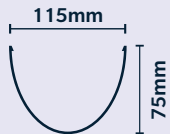
RB3
Shoe





HI-CAP 115mm GUTTER AND FITTINGS

Standard: BS EN 607, BS EN 12200 -1, BS EN 1462 Kitemark: 501316 Material: PVC-U



Half Round Gutter



Size	Colour	Code
4m	<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RGH4

Fascia Bracket



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RKH1

Top Hung Fascia Bracket



Colour	Code
<input checked="" type="checkbox"/> B <input type="checkbox"/> W	RKH2

8mm Universal Fascia Bracket Spacer



Colour	Code
<input checked="" type="checkbox"/> B <input type="checkbox"/> W	RS9



- A semi-elliptical profile suitable for new build, refurbishment and repair applications on most domestic and light commercial properties.
- For use with 68mm and 80mm Round downpipe.
- Fittings come with an insertion line to mark the gutter install point, allowing space for thermal expansion and contraction along the installation.
- Capable of taking up to 216m² of roof area to each outlet (Based on a 68mm outlet positioned in the middle of a gutter run and the gutter fixed to a 1:350 fall.)
- 80mm downpipes are also available and capable of taking up to 251m² of roof area to each outlet. (Based on an 80mm outlet positioned in the middle of a gutter run and the gutter fixed to a 1:350 fall.)
- Adaptors available allowing for connections to Half Round and Square Line systems.

90° Angle Bend



Colour

Code

B W BR G AG

RAH1

135° Angle Bend



Colour

Code

B W BR G AG

RAH2

Any Angle Bend



Colour

Code

B W BR

RA9

68mm Running Outlet



Colour

Code

B W BR G AG

ROH1

68mm Stopend Outlet



Colour

Code

B W BR G AG

ROH2

80mm Running Outlet



Colour

Code

B W G AG

ROH4

External Stopend



Colour

Code

B W BR G AG

REH1

Internal Stopend



Colour

Code

B W BR G AG

REH2

Union Bracket



Colour

Code

B W BR G AG

RUH1

Floating Union Bracket



Colour

Code

B W

RUH2

Half Round to Hi-Cap Gutter Adaptor



Colour

Code

B W BR

RHR3

Square Line to Hi-Cap Gutter Adaptor



Colour

Code

B W BR

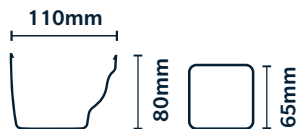
RHS3



NIAGARA RAINWATER SYSTEM

110mm GUTTER and 65mm SQUARE DOWNPIPE

DIMENSIONS

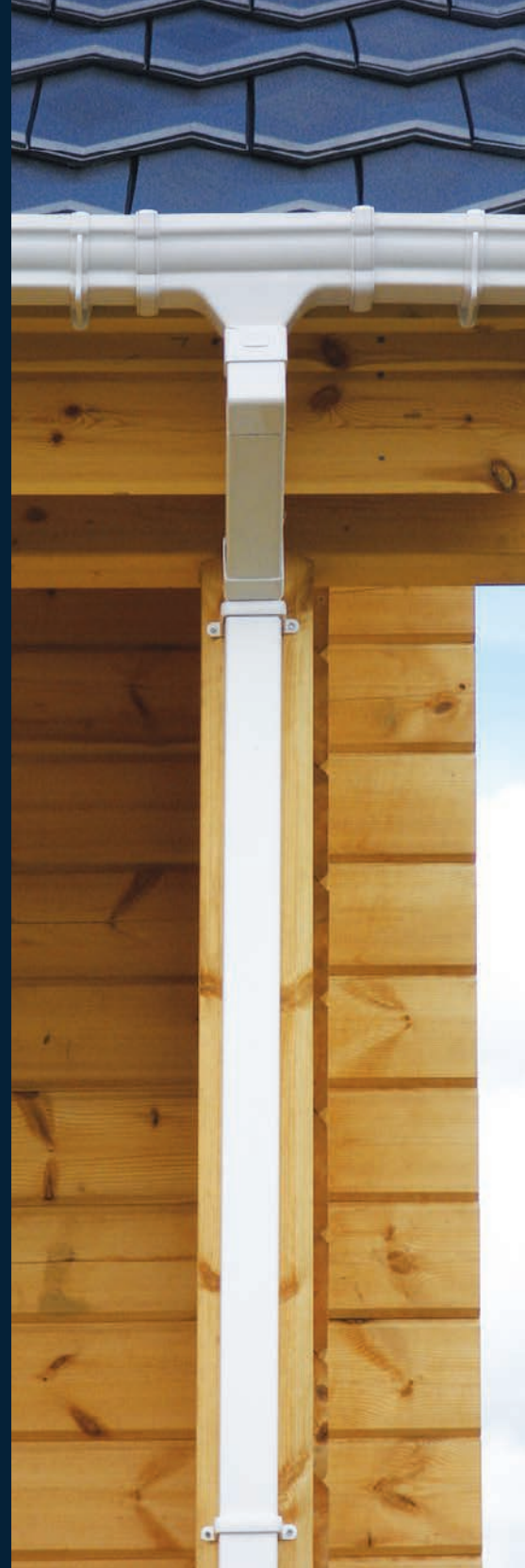


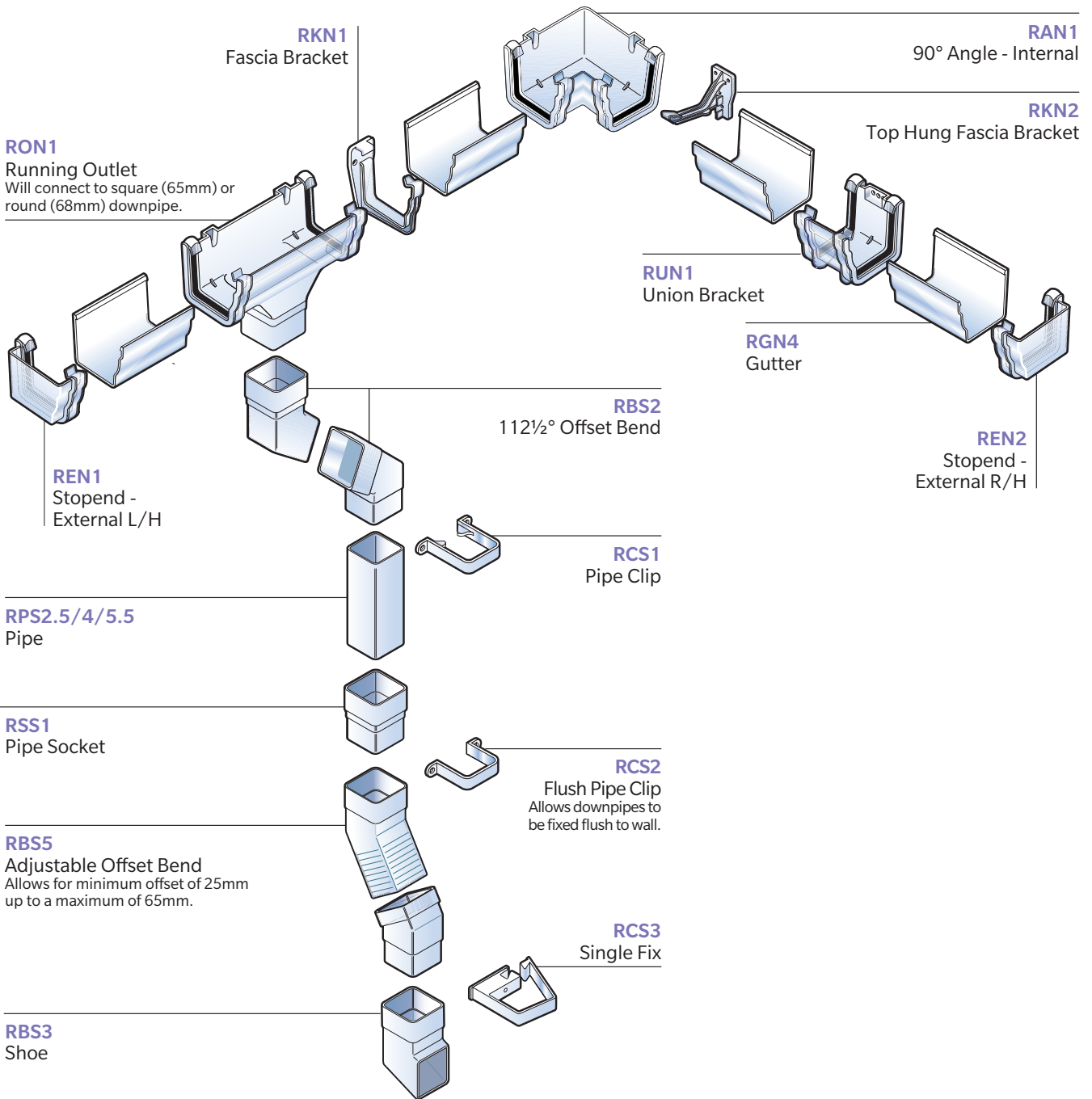
AVAILABLE COLOURS



INFORMATION

ALSO COMPATIBLE WITH
68 and 80mm ROUND DOWNPIPES

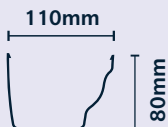






NIAGARA 110mm GUTTER AND FITTINGS

Standard: BS EN 607, BS EN 12200 -1, BS EN 1462 Kitemark: 501316 Material: PVC-U



Ogee Gutter



Size	Colour	Code
4m	<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR <input type="checkbox"/> AG	RGN4

90° Internal Angle



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR <input type="checkbox"/> AG	RAN1

Angle - Any Degree



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR <input type="checkbox"/> AG	RAN9

Fascia Bracket



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR <input type="checkbox"/> AG	RKN1

90° External Angle



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR <input type="checkbox"/> AG	RAN2

Running Outlet - 65mm/68mm



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR <input type="checkbox"/> AG	RON1

Top Hung Fascia Bracket




Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR	RKN2

135° Internal Angle



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR <input type="checkbox"/> AG	RAN3

65mm Square L/H Stopend Outlet



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR <input type="checkbox"/> AG	RON2

8mm Universal Fascia Bracket Spacer




Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W	RS9

135° External Angle



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR <input type="checkbox"/> AG	RAN4

65mm Square R/H Stopend Outlet



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> BR <input type="checkbox"/> AG	RON3



- A traditional ogee style profile suitable for new build, refurbishment and repair applications on most domestic and light commercial properties.
- Fittings come with an insertion line to mark the gutter install point, allowing space for thermal expansion and contraction along the installation.
- For use with 68mm and 80mm round downpipe, and 65mm square downpipe.
- 68mm round downpipes are capable of taking up to 229m² of roof area to each outlet. (Outlet positioned in the middle of a gutter run and the gutter fixed to a 1:350 fall.)
- 65mm square downpipes are capable of taking up to 229m² of roof area to each outlet. (Outlet positioned in the middle of a gutter run and the gutter fixed to a 1:350 fall.)
- 80mm round downpipes are capable of taking up to 251m² of roof area to each outlet. (Outlet positioned in the middle of a gutter run and the gutter fixed to a 1:350 fall.)

80mm Round Running Outlet



Colour	Code
B W AG	RON4

L/H External Stopend



Colour	Code
B W BR AG	REN1

Niagara to Half Round R/H Gutter Adaptor



Colour	Code
B W BR	RNR3

80mm Round L/H Stopend Outlet



Colour	Code
B W AG	RON5

R/H External Stopend



Colour	Code
B W BR AG	REN2

Niagara to Half Round L/H Gutter Adaptor



Colour	Code
B W BR	RNR4

80mm Round R/H Stopend Outlet



Colour	Code
B W AG	RON6

L/H Internal Stopend



Colour	Code
B W BR AG	REN3

Niagara to Square L/H Gutter Adaptor



Colour	Code
B W BR	RNS3

Union Bracket



Colour	Code
B W BR AG	RUN1

R/H Internal Stopend



Colour	Code
B W BR AG	REN4

Niagara to Square R/H Gutter Adaptor



Colour	Code
B W BR	RNS4



MINIFLO RAINWATER SYSTEM

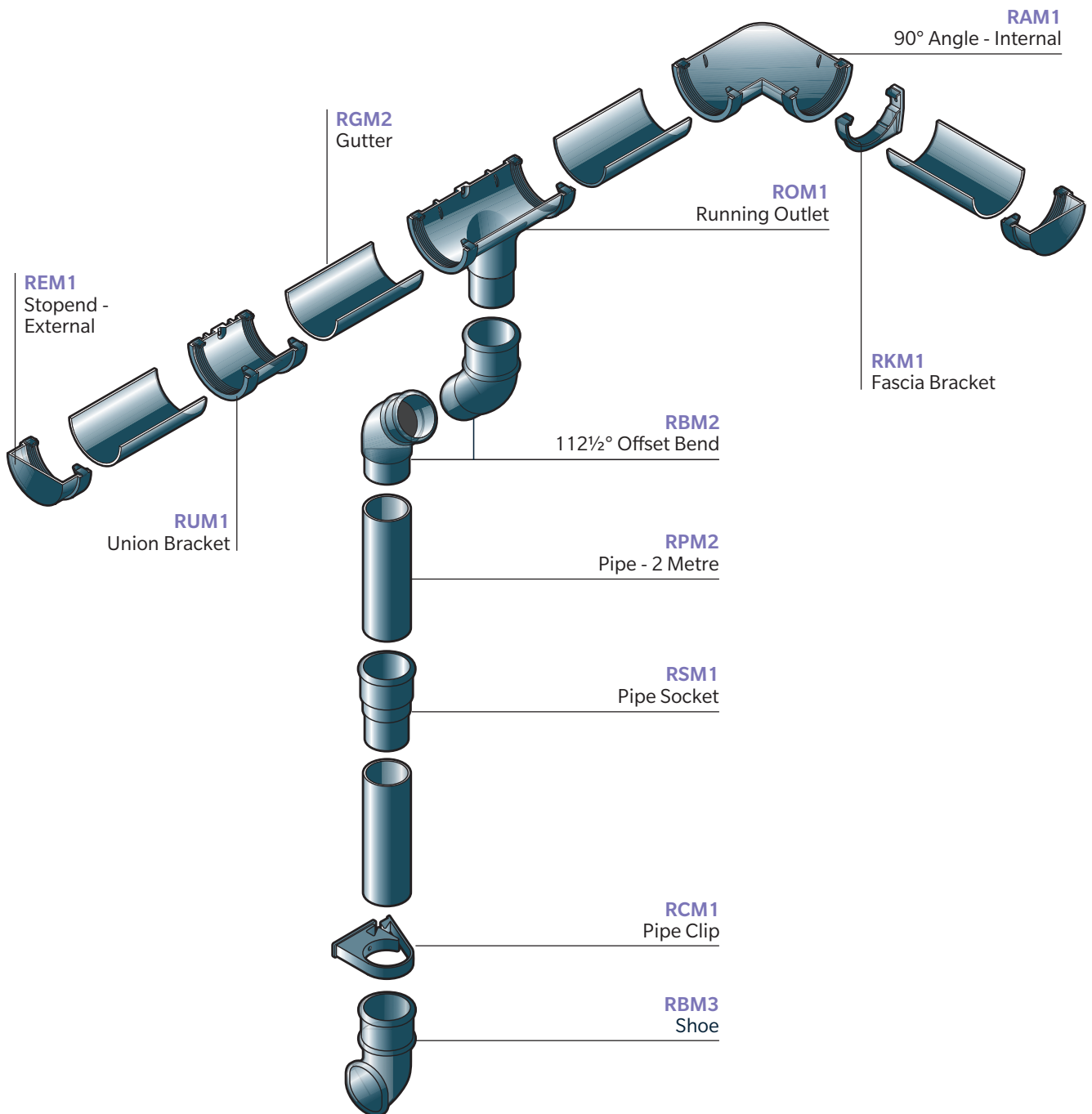
76mm GUTTER and 50mm ROUND DOWNPIPE

DIMENSIONS



AVAILABLE COLOURS

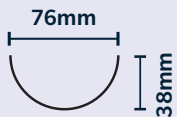


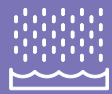




MINIFLO 76mm GUTTER AND FITTINGS

Standard: BS EN 607, BS EN 12200 -1, BS EN 1462 Material: PVC-U





- A smaller system based on the original Half Round profile suitable for use on most garden buildings, garages and bay windows.
 - Capable of taking up to 20m² of roof area to each outlet. *(Based on an outlet positioned in the middle of a gutter run and the gutter fixed to a 1:350 fall.)*
 - For use with 50mm round downpipes.
- Fittings come with an insertion line to mark the gutter install point, allowing space for thermal expansion and contraction along the installation.
 - 10 Year performance and discolouration guarantee.

MiniFlo Gutter



Size	Colour	Code
2m	<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RG2

90° Angle



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RAM1

135° Angle



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RAM2

Any Degree Angle



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RAM9

Running Outlet



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	ROM1

Stopend Outlet



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	ROM2

Stopend



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	REM1

Union Bracket



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RUM1

Fascia Bracket



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RKM1

Half Shed Pack



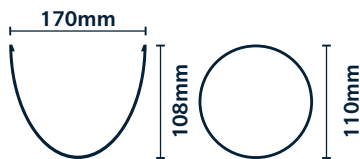
Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> AG	MS1



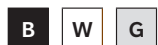
XTRAFLO RAINWATER SYSTEM

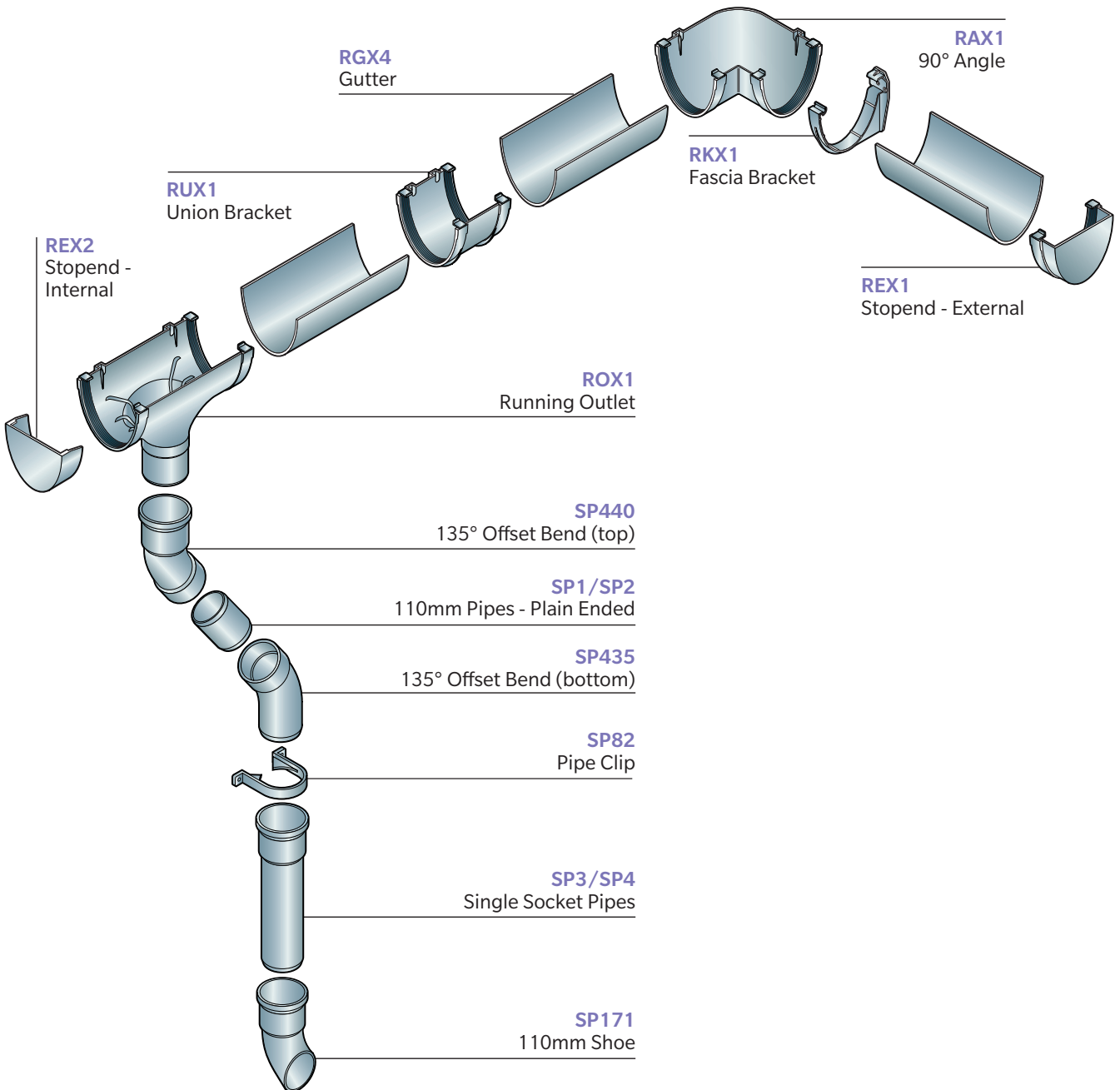
170mm GUTTER and 110mm ROUND DOWNPIPE

DIMENSIONS



AVAILABLE COLOURS

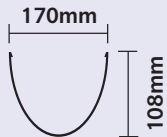






XTRAFLO 170mm GUTTER

Standard: BS EN 607, BS EN 12200 -1, BS EN 1462 Kitemark: 501316 Material: PVC-U





- A large semi-elliptical profile suitable for new build, refurbishment and repair applications on most industrial and commercial properties.
- Vortex outlet design to promote a vacuum effect to increase water flow rate.
- Capable of taking up to 509m² of roof area to each outlet. *(Based on an outlet positioned in the middle of a gutter run and the gutter fixed to a 1:350 fall.)*
- Utilises our 110mm soil system for downpipe.
- Fittings come with an insertion line to mark the gutter install point, allowing space for thermal expansion and contraction along the installation.
- 10 Year performance and discolouration guarantee.

Xtraflo Gutter



Size	Colour	Code
4m	B W G	RGX4

90° Angle



Colour	Code
B W G	RAX1

Angle - Any Degree



Colour	Code
B W G	RAX9

Running Outlet



Colour	Code
B W G	ROX1

Fascia Bracket



Colour	Code
B W G	RKX1

Union Bracket



Colour	Code
B W G	RUX1

External Stopend



Colour	Code
B W G	REX1

Internal Stopend



Colour	Code
B W G	REX2



68mm ROUND DOWNPIPE AND FITTINGS

Standard: BS EN 12200 -1 Kitemark: 501316 Material: PVC-U



Round Downpipe		
Size	Colour	Code
2.5m	B W BR G AG	RP2.5
4m	B W BR G AG	RP4
5.5m	B W BR G AG	RP5.5

Access Pipe (65mm Square/68mm Round)	
Colour	Code
B W BR AG	RX2



- Traditional round profile for use with Half Round, Hi Cap and Niagara Ogee gutter systems.
- Downpipe available in 2.5m, 4m and 5.5m lengths.
- Suitable for new build, refurbishment and repair applications.
- Option to use traditional fittings or lugged fittings for alternative appearances.
- 10 Year performance and discolouration guarantee.

92½° Offset Bend



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RB1

112½° Offset Bend



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RB2

Shoe



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RB3

Shoe with Fixing Lugs



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W	RB4

67½° Branch



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RY1

Pipe Clip



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RC1

Single Fix Pipe Clip



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RC3

Pipe Clip with Fixing Lugs



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> AG	RC4

Pipe Socket



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RS1

Pipe Socket with Fixing Lugs



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W	RS2

Hopper



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RHS1

8mm Spacer Bracket



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W	RC9

NOTE: RB4, RS2 and RC4 must be used together. RC9 to be used with the RS2, RC4 and RB4.



65mm SQUARE DOWNPIPE AND FITTINGS

Standard: BS EN 12200 -1 Kitemark: 501316 Material: PVC-U



Square Downpipe



Size	Colour	Code
2.5m	B W BR AG	RPS2.5
4m	B W BR AG	RPS4
5.5m	B W BR AG	RPS5.5

Pipe Socket



Colour	Code
B W BR AG	RSS1

Pipe Socket with Fixing Lugs



Colour	Code
B W	RSS2

Square to Round Downpipe adaptor



Colour	Code
B W BR AG	RDS2

Access Pipe (65mm Square/68mm Round)



Colour	Code
B W BR AG	RX2



- A square profile for use with Square Line and Niagara Ogee gutter systems.
- Suitable for new build, refurbishment and repair applications.
- Various clips are available allowing for the pipe to be fixed flush to the wall or standing off the wall.
- Option to use traditional fittings or lugged fittings for alternative appearances.
- Downpipe available in 2.5m, 4m and 5.5m lengths.
- 10 Year performance and discolouration guarantee.

92½° Offset Bend



Colour

Code



RBS1

112½° Offset Bend



Colour

Code



RBS2

Shoe



Colour

Code



RBS3

Shoe with Fixing Lugs



Colour

Code



RBS4

Adjustable Offset Bend



Colour

Code



RBS5

67½° Branch



Colour

Code



RYS1

Hopper



Colour

Code



RHS1

8mm Spacer Bracket



Colour

Code



RCS9

Pipe Clip



Colour

Code



RCS1

Flush Pipe Clip



Colour

Code



RCS2

Single Fix Pipe Clip



Colour

Code



RCS3

Pipe Clip with Fixing Lugs



Colour

Code



RCS4

NOTE: RBS4, RSS2 and RCS4 must be used together. RCS9 to be used with the RBS4, RCS4 and RSS2.



80mm ROUND DOWNPIPE AND FITTINGS

Standard: BS EN 12200 -1 Kitemark: 501316 Material: PVC-U





- A large 80mm round profile for use with Hi Cap and Niagara Ogee gutter systems.
- Offers an increased flow capacity compared to the standard 68mm round downpipes.
- Downpipe available in 4m lengths.
- Suitable for new build, refurbishment and repair applications.
- 10 Year performance and discolouration guarantee.

Round Downpipe



Size	Colour	Code
4m	<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G <input type="checkbox"/> AG	RPH4

67½° Branch



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G <input type="checkbox"/> AG	RYH1

92½° Offset Bend



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G <input type="checkbox"/> AG	RBH1

Single Fix Pipe Clip



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G <input type="checkbox"/> AG	RHC3

112½° Offset Bend



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G <input type="checkbox"/> AG	RBH2

Pipe Socket



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G <input type="checkbox"/> AG	RHS1

Shoe



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G <input type="checkbox"/> AG	RBH3

Hopper



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G <input type="checkbox"/> AG	RHH1





50mm ROUND DOWNPIPE AND FITTINGS

Standard: BS EN 12200 -1 Material: PVC-U



- A smaller round profile downpipe for use with the MiniFlo gutter system.
- Ideal for use on sheds, garages and bay windows.
- Downpipe available in 2m lengths.
- 10 Year performance & discolouration guarantee.

Round Downpipe



Size	Colour	Code
2m	<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RPM2

92½° Offset Bend



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RBM1

112½° Offset Bend



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RBM2

Shoe



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RBM3

Single Fix Pipe Clip



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RCM1

67½° Branch



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RYM1

Pipe Socket



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input checked="" type="checkbox"/> BR <input type="checkbox"/> G <input type="checkbox"/> AG	RSM1

MiniFlo Rainwater Diverter



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> AG	RVM1

Half Shed Pack



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> AG	MS1





110mm ROUND DOWNPIPE AND FITTINGS

Standard: BS EN 1329-1, BS EN 1453-1 Kitemark: 544331 Material: PVC-U



- A large round profile suitable for industrial and commercial properties.
- Utilises our 110mm soil system.
- Downpipe available in 1m, 2.5m, 3m and 4m lengths.



Plain Ended Downpipe



Size	Colour	Code
3m	<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G	SP1
4m	<input type="checkbox"/> B <input type="checkbox"/> G	SP2

Single Socket Downpipe



Size	Colour	Code
1m	<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G	SP8
2.5m	<input type="checkbox"/> B <input type="checkbox"/> G	SP7
3m	<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G	SP3
4m	<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G	SP4



Pipe Clip



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G	SP82

135° Offset Bend - Ring Seal/Solvent



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G	SP440

135° Offset Bend - Spigot/Solvent



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G	SP435

Shoe



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G	SP171

92½° Branch



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G	SP190

92½° Access Bend



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G	SP169

Access pipe - Spigot/Solvent



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G	SP274

Hopper



Colour	Code
<input type="checkbox"/> B <input type="checkbox"/> W <input type="checkbox"/> G	RHX1





CAST YOUR EYE OVER OUR "CAST IRON" STYLE SYSTEMS

The FloPlast "Cast Iron" Style Rainwater offers the authentic look of Cast Iron with all the benefits of PVC, the perfect complement to our 'Cast Iron' Style Ring Seal Soil range.



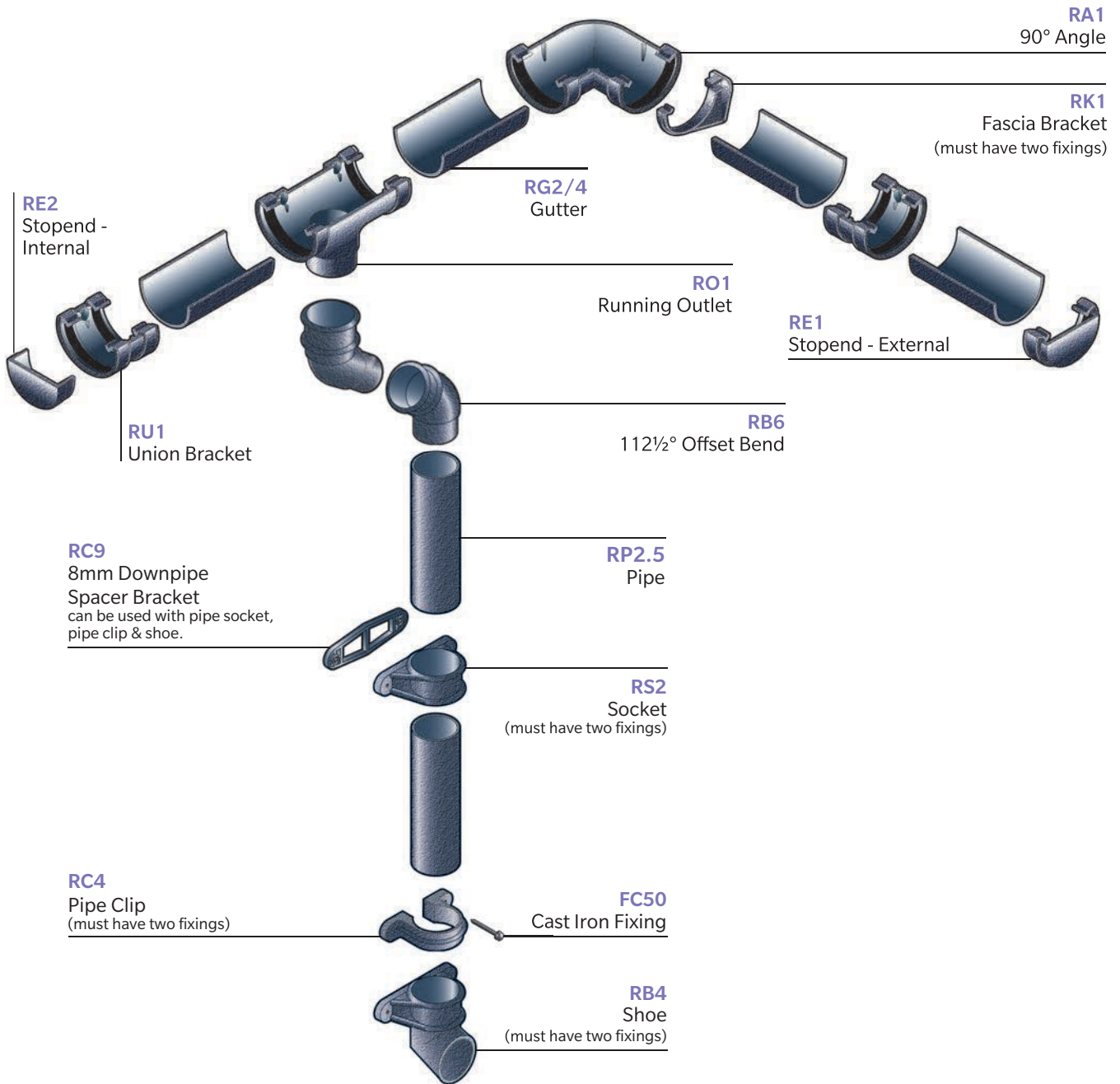


"CAST IRON" STYLE HALF ROUND RAINWATER SYSTEM

112mm GUTTER and 68mm ROUND DOWNPIPE

DIMENSIONS

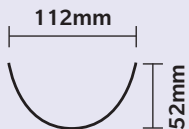






"CAST IRON" HALF ROUND 112mm GUTTER & FITTINGS

Standard: BS EN 607, BS EN 12200 -1, BS EN 1462 Material: PVC-U



Half Round Gutter



Size	Colour	Code
2m	ci	RG2
4m	ci	RG4

Union Bracket



Colour	Code
ci	RU1



- A traditional Half Round profile suitable for use on most domestic properties, including new build, refurbishments, repair applications and Grade I listed properties.
- For use with "Cast Iron" Style 68mm Round downpipe. See pages 50.
- Adaptors available allowing for connections to Cast Iron rainwater systems.
- Fittings come with an insertion line to mark the gutter install point, allowing space for thermal expansion and contraction along the installation.
- Capable of taking up to 113m² of roof area to each outlet (*Based on an outlet positioned in the middle of a gutter run and the gutter fixed to a 1:350 fall.*)

Fascia Bracket



Colour

ci

Code

RK1

8mm Universal Fascia Bracket Spacer



Colour

B W

Code

RS9

90° Angle Bend



Colour

ci

Code

RA1

135° Angle Bend



Colour

ci

Code

RA2

Any Angle Bend



Colour

ci

Code

RA9

Running Outlet



Colour

ci

Code

RO1

Stopend Outlet



Colour

ci

Code

RO2

External Stopend



Colour

ci

Code

RE1

Internal Stopend



Colour

ci

Code

RE2

Cast Iron Ogee Gutter Adaptor - Right



Colour

ci

Code

RD3

Cast Iron Ogee Gutter Adaptor - Left



Colour

ci

Code

RD4

Cast Iron Half Round Adaptor



Colour

ci

Code

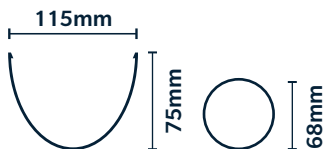
RD5

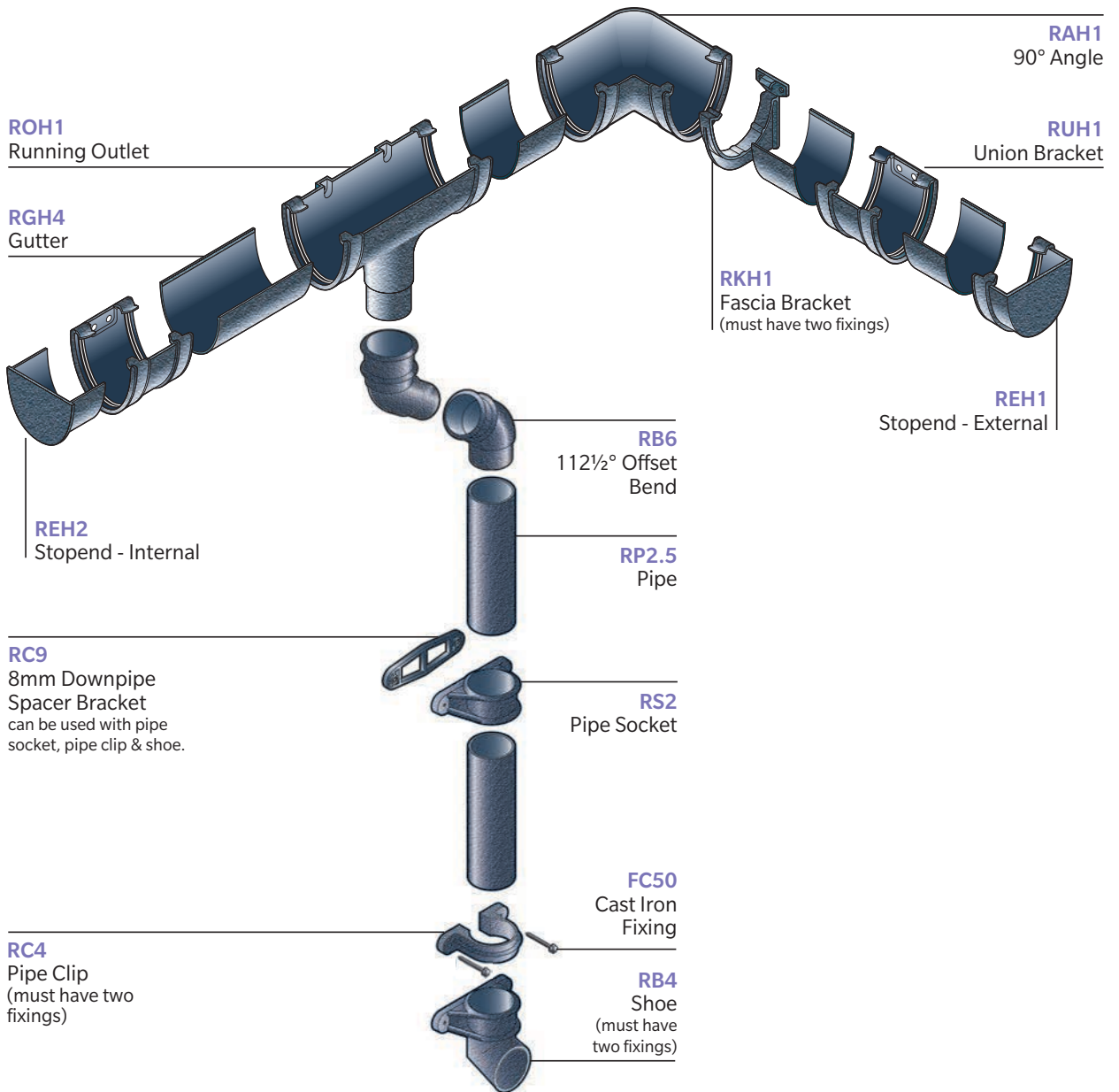


"CAST IRON" STYLE HI-CAP RAINWATER SYSTEM

115mm GUTTER and 68mm ROUND DOWNPIPE

DIMENSIONS

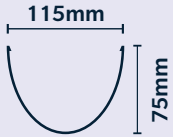






"CAST IRON" HI-CAP 115mm GUTTER & FITTINGS

Standard: BS EN 607, BS EN 12200 -1, BS EN 1462 Material: PVC-U





- A semi-elliptical profile suitable for use on most domestic and light commercial properties, including new build, refurbishments, repair applications and Grade I listed properties.
- Fittings come with an insertion line to mark the gutter install point, allowing space for thermal expansion and contraction along the installation.
- Capable of taking up to 216m² of roof area to each outlet (Based on a 68mm outlet positioned in the middle of a gutter run and the gutter fixed to a 1:350 fall.)
- For use with "Cast Iron" Style 68mm Round downpipe. See page 50.

Hi-Cap Gutter



Size	Colour	Code
4m	ci	RGH4

Fascia Bracket



Colour	Code
ci	RKH1

8mm Universal Fascia Bracket Spacer



Colour	Code
B W	RS9

Union Bracket



Colour	Code
ci	RUH1

90° Angle Bend



Colour	Code
ci	RAH1

135° Angle Bend



Colour	Code
ci	RAH2

Any Angle Bend



Colour	Code
ci	RAH9

Running Outlet



Colour	Code
ci	ROH1

Stopend Outlet



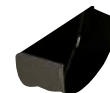
Colour	Code
ci	ROH2

External Stopend



Colour	Code
ci	REH1

Internal Stopend



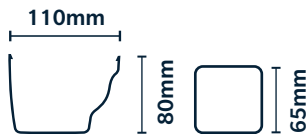
Colour	Code
ci	REH2



"CAST IRON" STYLE NIAGARA RAINWATER SYSTEM

115mm GUTTER and 65mm SQUARE DOWNPIPE

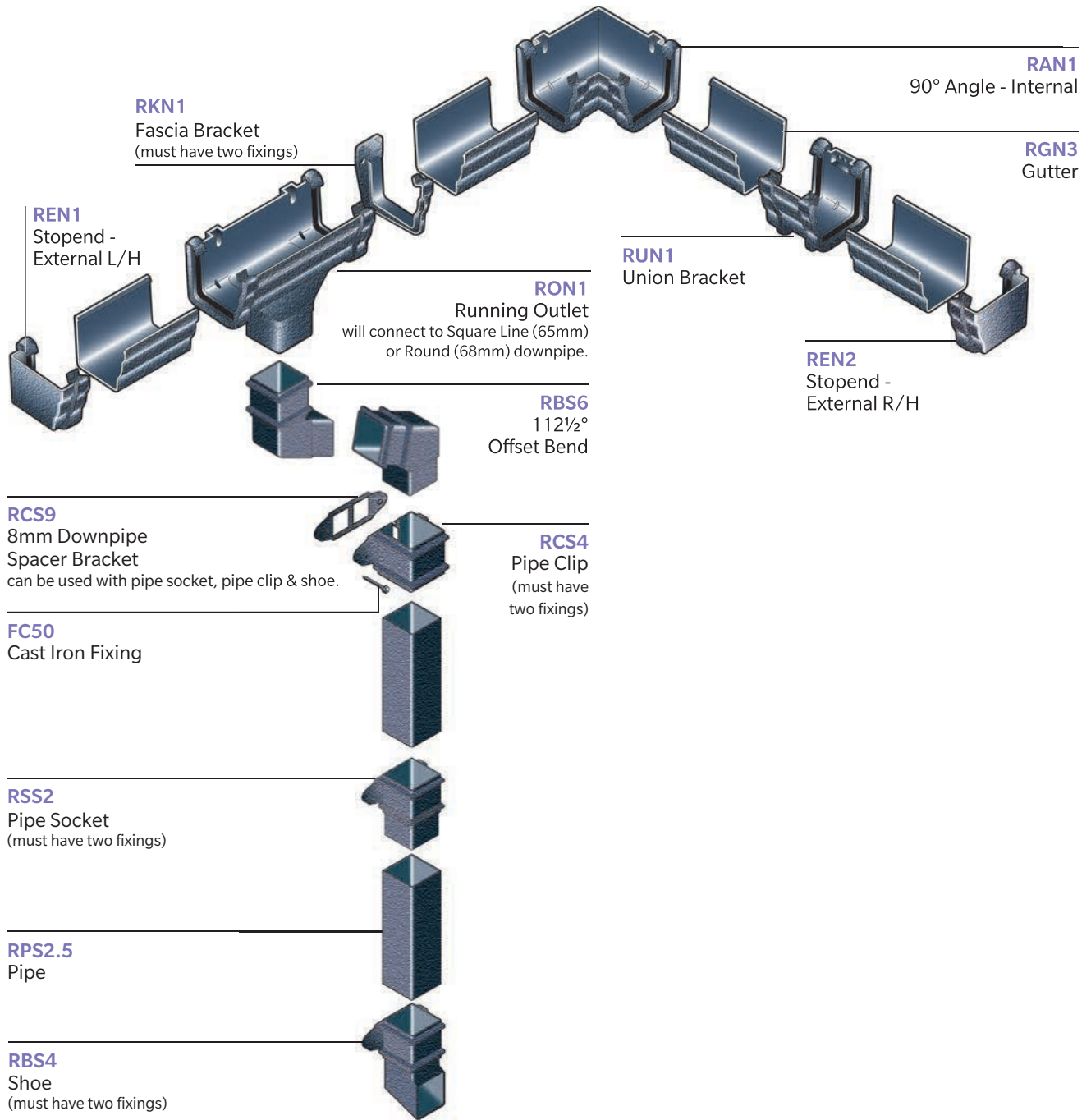
DIMENSION



INFORMATION

ALSO COMPATIBLE WITH
68mm ROUND DOWNPIPES

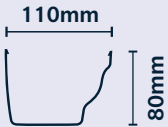






"CAST IRON" NIAGARA 110mm GUTTER & FITTINGS

Standard: BS EN 607, BS EN 12200 -1, BS EN 1462 Material: PVC-U



Ogee Gutter



Size	Colour	Code
4m	cl	RGN4

Fascia Bracket



Colour	Code
cl	RKN1

8mm Universal Fascia Bracket Spacer



Colour	Code
B W	RS9

Union Bracket



Colour	Code
cl	RUN1



- A traditional Ogee style profile suitable for use on most domestic and light commercial properties, including new build, refurbishments, repair applications and Grade I listed properties.
- Fittings come with an insertion line to mark the gutter install point, allowing space for thermal expansion and contraction along the installation.

- 68mm round downpipes are capable of taking up to 229m² of roof area to each outlet.
(Outlet positioned in the middle of a gutter run and the gutter fixed to a 1:350 fall.)
- 65mm square downpipes are capable of taking up to 229m² of roof area to each outlet.
(Outlet positioned in the middle of a gutter run and the gutter fixed to a 1:350 fall.)

- For use with "Cast Iron" style 68mm round and 65mm square downpipe. See pages 50 and 51.



90° Internal Angle



Colour	Code
ci	RAN1

90° External Angle



Colour	Code
ci	RAN2

135° Internal Angle



Colour	Code
ci	RAN3

135° External Angle



Colour	Code
ci	RAN4

Angle - Any Degree



Colour	Code
ci	RAN9

Running Outlet - 65mm/68mm



Colour	Code
ci	RON1

65mm Square L/H Stopend Outlet



Colour	Code
ci	RON2

65mm Square R/H Stopend Outlet



Colour	Code
ci	RON3

L/H External Stopend



Colour	Code
ci	REN1

R/H External Stopend



Colour	Code
ci	REN2

L/H Internal Stopend



Colour	Code
ci	REN3

R/H Internal Stopend



Colour	Code
ci	REN4



"CAST IRON" 68mm ROUND DOWNPIPE AND FITTINGS

Standard: BS EN 12200 -1 Material: PVC-U



- Traditional round profile for use with "Cast Iron" Style Half Round, Hi-Cap and Niagara Ogee gutter systems.
- Suitable for new build, refurbishments, repair applications and Grade I listed properties.
- Can be used on Grade I listed properties.
- 20 Year "Cast Iron" style colour and performance guarantee.

Round Downpipe



Size	Colour	Code
2.5m	ci	RP2.5

Access Pipe (65mm Square/68mm Round)



Colour	Code
ci	RX2

92½° Offset Bend



Colour	Code
ci	RB8

112½° Offset Bend



Colour	Code
ci	RB6

Shoe with Fixing Lugs



Colour	Code
ci	RB4

67½° Branch



Colour	Code
ci	RY1

Pipe Clip with Fixing Lugs



Colour	Code
ci	RC4

Pipe Socket with Fixing Lugs



Colour	Code
ci	RS2

Universal Hopper



Colour	Code
ci	RH1



"CAST IRON" 65mm SQUARE DOWNPIPE AND FITTINGS

Standard: BS EN 12200 -1 Material: PVC-U



- A square profile for use with "Cast Iron" Style Niagara Ogee gutter systems.
- Suitable for new build, refurbishments, repair applications and Grade I listed properties.
- Can be used on Grade I listed properties.
- 20 Year "Cast Iron" style colour and performance guarantee.

Square Downpipe



Size	Colour	Code
2.5m	ci	RPS2.5

Shoe with Fixing Lugs



Colour	Code
ci	RBS4

Square to Round Downpipe Adaptor



Colour	Code
ci	RDS2

Access Pipe (65mm Square/68mm Round)



Colour	Code
ci	RX2

67½° Branch



Colour	Code
ci	RYS2

Universal Hopper



Colour	Code
ci	RH1

92½° Offset Bend



Colour	Code
ci	RBS8

Pipe Clip with Fixing Lugs



Colour	Code
ci	RCS4

112½° Offset Bend



Colour	Code
ci	RBS6

Pipe Socket with Fixing Lugs



Colour	Code
ci	RS2



"CAST IRON" STYLE HOPPERS AND MOTIFS

Standard: BS EN 12200 -1 Material: PVC-U





- Collects and directs rainwater from guttering into downpipes.
- The RH4 and RH5 mimic traditional cast iron designs and can be used on period or heritage buildings.
- Hoppers available in three different styles.
- Lighter, making them easier to install compared to traditional metal hoppers.
- Motifs available in 4 different styles to enhance the look and feel of the hopper.
- For use with "Cast Iron" style 68mm round and 65mm square downpipe systems.

Universal Hopper



Colour	Code
ci	RH1

Ogee Hopper with fixing lugs



Colour	Code
ci	RH4

Rectangular Hopper with fixing lugs



Colour	Code
ci	RH5

Cast Iron Fixings



Colour	Code
ci	FC50

Fleur-de-lis Motif



Size	Colour	Code
55m	ci	FL55
75m	ci	FL70

Tudor Rose



Size	Colour	Code
40m	ci	TR55
55m	ci	TR70

Decorative Square



Size	Colour	Code
40m	ci	DS55
70m	ci	DS70

Lions Head



Size	Colour	Code
75m	ci	LH55
90m	ci	LH70





ECOFLO RAINWATER DIVERTERS

Standard: BS EN 12200 -1 Material: PVC-U



- Saves rainwater by diverting it from the downpipe to a water butt for general garden use.
- Designed to prevent excess overflow from the butt by diverting it back to the downpipe when full.

65/68mm Rainwater Diverter



Colour

Code

B W BR G AG Cl

RVS1

80mm Rainwater Diverter



Colour

Code

B W G AG

RVH1

50mm MiniFlo Rainwater Diverter



Colour

Code

B W BR G AG

RVM1

Connector Kit



Colour

Code

B W

RVS2





ECOFLO RAINWATER STORAGE

WB100 SLIM WATER BUTT

- 100L capacity.
- Space saving water butt ideal where space is at a premium.
- Supplied with tap and lid.
- Manufactured in the UK from recycled materials.

WB200 WATER BUTT

- 210L capacity.
- Traditional shape water butt with a large capacity.
- Supplied with tap and lockable lid.
- Manufactured in the UK from recycled materials.

100L Water Butt



Size	Code
100L	WB100

100L Water Butt Stand



Size	Code
-	ST100

210L Water Butt



Size	Code
210L	WB200

210L Water Butt Stand

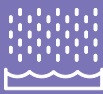


Size	Code
-	ST200

DIMENSIONS

WB100 - 100L Water butt			WB200 - 210L Water butt		
	Water Butt	Stand		Water Butt	Stand
Length:	32cm (12½")	33cm (13")	Diameter:	57cm (25½")	53cm (21")
Width:	36cm (14")	33cm (13")	Height:	97cm (39½")	31cm (12")
Height:	95.2cm (37½")	30.5cm (12")			





STORMSAVER RAINWATER HARVESTING

- Uses over 75% less energy than other traditionally pumped Rainwater Harvesting Systems.
- Low decibel rating.
- Flow Rate of 10 litres per minute (same as mains pressure).
- Compact control unit.
- The shallow dig tank is robust and comes with all the necessary components.
- Ideal for new build properties and homes with up to 6 bedrooms.

Stormsaver packages



PACKAGE INCLUDES:

- Underground storage tank
- 235mm entrance shaft
- Pedestrian duty lid for tank
- Control panel
- ½" Boosted floating suction filter kit
- 20m ½" Flexible suction hose

Size	Code
1500L	S1500
3000L	S3000
5000L	S5000
7500L	S7500

Non-Return Valve - Single Flap



Size	Code
110mm	D550



With the average home owner using around 150 litres of water per day, the StormSaver Rainwater Harvesting System will enable the metered home owner to recycle rainwater and potentially reduce their bills by up to 50%, whilst remaining kinder to the environment. StormSaver can also alleviate pressure on local drainage in line a Sustainable Drainage Schemes (SuDS), to help prevent flood risk.



WEATHER PROTECTION

DRAINGUARD FEATURES:

- Helps to prevent debris from entering exposed gully grids.
- Wing tabs to allow for a secure fix to the wall.
- Suitable for new build and retrofit applications.

BALLOONGUARD FEATURES:

- Helps to prevent debris such as leaves, moss and twigs from entering rainwater downpipes.
- Suitable for use with 68mm round and 65mm square downpipes.

GUTTERBRUSH FEATURES:

- Helps to prevent debris such as leaves, moss and twigs from blocking gutter systems.
- Flexible design making it compatible with most domestic gutter systems.

Gutterbrush



Size	Colour	Code
4m	B W	GB4

Snow/Tile Guard



Size	Code
2m	SG1

FloGuard - Leaf protection system



Size	Colour	Code
5m	B	FG1

Snow/Tile Guard Bracket



Code
SG2

BalloonGuard - Leaf protection system



Colour	Code
B	OG1

DrainGuard - Round/Square Downpipe



Colour	Code
B	DG1

FLO GUARD

FEATURES:

- Helps to prevent debris such as leaves, moss and twigs from blocking gutter systems.
- Suitable for most gutter systems with a width between 100mm – 115mm.
- FloGuard clips together with no requirement for screws or tools to install.
- Manufactured from Polypropylene.





ANCILLARIES AND ADAPTORS

FloPlast Rainwater Ancillaries and adaptors provide added support and flexibility for your rainwater installation, offering effective weather-protection solutions such as snow guards and leaf-blockage prevention systems.

Top Fix Rafter Bracket



Information	Code
Fixing nut included	RR1

Compressed Silicone Lubricant Spray



Information	Code
200ml	SL200

Universal 68/65mm Rainwater Adaptor



Colour	Code
B	D96

Black Coated Top Fix Rafter Bracket



Colour	Code
B	RR1B

Universal Rise & Fall Bracket



Information	Code
Not suitable for XtraFlo	RF1

80x110mm Adaptor



Colour	Code
B	D97

Side Fix Rafter Bracket



Information	Code
Fixing nut included	RR2

FloPlast Branded Temporary Downpipe



Information	Code
150m x 150mm	RPT150

Black Coated Side Fix Rafter Bracket



Colour	Code
B	RR2B

NEW Multi-Positional Outlet



Information	Code
Square and Ogee gutter	RPA1



65mm Square/68mm Round Adaptor (D96) Installation.



RAINWATER SYSTEMS

APPLICATION

APPLICATIONS

FloPlast Rainwater Systems are suitable for most applications and types of building, including domestic, commercial and industrial.

COMPOSITION

All products are manufactured from unplasticised polyvinyl chloride (PVC-U) and comply with the material requirements of either BS EN 12200-1, BS EN 607, BS EN 1462, BS EN 1453 or BS EN 1329-1 as relevant.

Rainwater gutters and pipes are manufactured by a continuous extrusion process. Fittings are produced on high-pressure injection moulding machines.

All fittings are manufactured to close tolerances allowing accurate incorporation of design features.

ACCREDITATION

Our profiles are manufactured to BS EN 607 (Gutters and fittings), BS EN 12200-1 (Downpipes and fittings), BS EN 1462 (Gutter brackets) standards. 110mm downpipe and fittings are manufactured to BS EN 1329 and BS EN 1453 standards. These are assessed by a quality management system and registered by British Standards as meeting the requirements of BS EN ISO 9001 (Certificate Number FM:501414).

SUPPLY

Products are available from a national network of distributors and stockists. For details of your local stockist contact our Sales Office.

CAPACITY OF DRAINAGE

To select the gutter size appropriate to your requirements, two factors must be taken into consideration.

- Roof Area
- Gutter Flow Capacity

For further reference refer to BS EN 12056-3 "Roof Drainage Layout and Calculation".

The capacity of a drainage system should be large enough to carry the expected flow at any point in the system. The flow of 'run-off' depends upon the area to be drained, (the 'effective roof area'), and the intensity of rainfall. It is accepted that 75mm an hour is the intensity of rainfall in the United Kingdom.

For further information, see the FloPlast "Gutter calculator" at www.floplast.co.uk

CLEANING AND MAINTENANCE

Although PVC-U rainwater systems are considered to be relatively low maintenance, it is important to clear gutter systems of fallen leaves and other debris at least once per year.

More frequent inspections may be necessary in areas of high pollution and where there are trees in the vicinity.

Inspection of the gutter and brackets is also advisable during and after periods of ice formation in the guttering system.

In some cases lighter coloured systems may require cleaning. Wash down with a solution of warm soapy water, in severe cases a non-abrasive kitchen cream cleaner should be used.

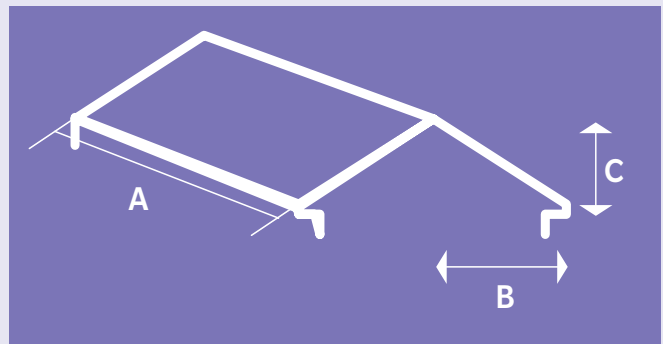
ROOF AREA

The effective roof area can be calculated by using the following formula:

$$(B + \frac{C}{2}) \times \text{length of Roof (A)} = \text{Area in m}^2$$

B = Half width of gable end or hip

C = Vertical measurement from eaves to apex





RAINWATER SYSTEMS

INSTALLATION

- Plan your installation using the component diagrams to assist you in selecting the correct type and quantity of products required.
 - Fascia brackets should be spaced at a maximum of one metre apart on straight gutter runs. (800mm in the case of the Niagara system, 600mm in the case of the Xtraflo system). When using 80mm Round Downpipe with Hi-Cap and Niagara Systems, fascia brackets should be spaced at a maximum of 800mm intervals. In areas where there is the possibility of high levels of snowfall, fascia brackets should be spaced at a maximum of 400mm centres. For further information, view our snow loading statement below.
 - Angles and stopends should have a fascia bracket within 150mm of the fitting.
 - A supporting pipe clip should be used on shoes, sockets, branches and bends where necessary.
 - Support downpipes below any offset and at maximum intervals of 1.8 metres.
- Where necessary remove the old gutter and replace old fascia board with FloPlast low maintenance PVC-UE co-extruded fascia board.
- Establish the position of the running outlet, usually over an existing drain, and fix securely to the fascia board.
- Fix a fascia bracket 100mm short of furthest point from the outlet. Allow for a fall to the outlet (1:350 is recommended) using a string line.
- Fixings:
 - Fix fascia and union brackets at required intervals. Fascia brackets should be positioned so as to avoid the fixing screws splitting the top edge of any timber fascia board. All brackets should be secured to the fascia board with two 25mm x 5mm (1" x 10) screws or one 40mm x 5mm (1½" x 10) screw. The "Cast Iron" fascia brackets must have two fixings.
 - Unions should be fixed using two 25mm x 5mm (1" x 10) screw or one use with 40mm x 5mm (1½" x 10) screw.
 - Outlets should be fixed using two 25mm x 5mm (1" x 10) screws.
 - In areas of heavy snowfall it is recommended that each fascia bracket is secured using two 25mm x 5mm (1" x 10) screws.
 - Rainwater downpipe clips should be fixed using two 40mm x 6mm (1½" x 12) screws as a minimum.
 - Round head screws are the recommended style of screw, however counter sunk can be used as long as care is taken not to overtighten, particularly when using power tools.
- Lubricate all gutter seals with FloPlast silicone spray lubricant to ensure an easy fit and to allow for movement caused by expansion and contraction.
- Working from the running outlet insert the back edge of the gutter under the retaining lip of the wrap around clip. Using slight downward pressure on the gutter snap the front edge of the retaining clip over the front of the gutter. (Ensure that the marked expansion allowance is kept.)
- Use a union bracket or angle to join to the next gutter length in order to build up a gutter run. Use a stopend to complete the run.
- Downpipe installation starts at the outlet. If an offset is required use two offset bends with or without a short piece of pipe, alternatively if installing square downpipe use an adjustable offset bend. Ensure a 6mm gap is left at the top of the downpipe for expansion.
- Pipe sockets if required should be secured to the wall with a pipe clip.
- At the base of the pipe, fit a shoe secured with a pipe clip or connect downpipe to the underground drainage system using a 110mm x 68mm or 50mm reducer (SP96/D96 or D97).

SNOW LOADING STATEMENT

Snow slippage is particularly evident where smooth roofing materials, such as slate, have been installed. For additional security, FloPlast strongly recommend the installation of Snow Guard (see page 57) which facilitates the retention of snow, allowing slow melt, rather than slippage. In areas where there is the possibility of high levels of snowfall, fascia brackets should be spaced at a maximum of 400mm centres.

Several factors can come into play with the performance of rainwater systems, installation, overhang and style of the roof system (tiles/slates), pitch of roof, North or South facing, above or below 100 metres above sea level.



GUTTER

OUTLET FLOW RATES

The flow rates in the columns BS 12056 have been calculated in accordance with BS EN 12056-3: 2000 where 90% of full flow is used as a safety factor (freeboard). A rainwater system is suitable in terms of performance as long as the carrying capacity of the chosen configuration exceeds the calculated run-off of rainwater from the roof.

OUTLET AT END OF GUTTER RUN

SYSTEM	GUTTER FIXED LEVEL				GUTTER FIXED AT 1:350 FALL			
	Gutter Flow (litres/sec)		Roof Area (m ²)		Gutter Flow (litres/sec)		Roof Area (m ²)	
	Max flow rate	BS 12056	Max flow rate	BS 12056	Max flow rate	BS 12056	Max flow rate	BS 12056
HALF ROUND 68mm Round Downpipe	0.92	0.82	44	40	1.17	1.05	56	50
SQUARE LINE 65mm Square Downpipe	1.70	1.53	81	73	2.00	1.80	96	86
HI-CAP 68mm Round Downpipe	2.05	1.84	98	88	2.56	2.30	123	111
HI-CAP 80mm Round Downpipe	2.25	2.02	108	97	2.79	2.51	134	121
NIAGARA OGEE 65mm Square Downpipe	2.40	2.16	115	104	2.90	2.61	139	125
NIAGARA OGEE 68mm Round Downpipe	2.40	2.16	115	104	2.90	2.61	139	125
NIAGARA OGEE 80mm Circular Downpipe	2.64	2.37	127	114	3.19	2.87	153	138
XTRAFLO 110mm Circular Downpipe	4.30	3.87	206	185	6.20	5.58	297	267

OUTLET AT CENTRE OF GUTTER RUN

SYSTEM	GUTTER FIXED LEVEL				GUTTER FIXED AT 1:350 FALL			
	Gutter Flow (litres/sec)		Roof Area (m ²)		Gutter Flow (litres/sec)		Roof Area (m ²)	
	Max flow rate	BS 12056	Max flow rate	BS 12056	Max flow rate	BS 12056	Max flow rate	BS 12056
HALF ROUND 68mm Circular Downpipe	1.80	1.62	86	77	2.60	2.34	125	113
SQUARE LINE 65mm Square Downpipe	3.41	3.06	163	147	3.95	3.55	189	170
HI-CAP 68mm Circular Downpipe	3.80	3.42	182	164	5.00	4.05	240	216
HI-CAP 80mm Circular Downpipe	4.18	3.76	200	180	5.50	4.95	264	238
NIAGARA OGEE 65mm Square Downpipe	4.50	4.05	216	194	5.30	4.77	254	229
NIAGARA OGEE 68mm Round Downpipe	4.50	4.05	216	194	5.30	4.77	254	229
NIAGARA OGEE 80mm Circular Downpipe	4.95	4.45	237	213	5.83	5.24	279	251
XTRAFLO 110mm Circular Downpipe	8.20	7.38	393	354	11.80	10.62	566	509



RAINWATER SYSTEMS

DESIGN DATA

DESIGN FACTORS

Building Regulations (Approved Document H) requirements. The provisions to meet the requirements of the Building regulations 2000 (2002) are set out in Approved document H part H3.

An alternative to this requirement, is to follow the relevant recommendations of BS EN 12056-3 Roof Drainage, Layout and Calculation.

This document gives very comprehensive information on the calculations/ design of systems in a variety of situations, and should be referred to whenever large industrial type installations are envisaged or whenever particularly severe weather conditions are expected.

EXPANSION

Tests have shown that expansion and contraction of gutter occurs during normal usage, and expansion tolerances are allowed for within our fittings.

Tests were conducted between -8°C and +40°C where an expansion of 14.63mm was experienced over a 4 metre length.

These are obvious extremes, and under normal daily temperature fluctuations expansion and contraction will be in the region of 10mm per 4 metre length.

CARRYING CAPACITIES FOR GUTTER

The carrying capacity of gutters varies under differing conditions. The main variables are whether or not the gutter is fitted to a fall or level and whether the outlet is placed in the centre or at one end of the gutter run.

Gutter flow rates will vary according to the type and configuration of downpipe system being used, however downpipe sizing is not a normal design consideration, as the downpipe systems manufactured by FloPlast have flow capacities approximately ten times greater than the gutter systems they drain.

The carrying capacities in litres per second for gutters, taking into account the major variables, are specified in the performance table on the previous page.

PIPE DIMENSIONS	NORMAL SIZE	ACTUAL OD
CIRCULAR	50mm (2")	50.3mm
	68mm (2½")	68.48mm
	80mm (3")	80.15mm
	110mm (4")	110.2mm
SQUARE	65mm (2½")	65mm

GUTTER DIMENSIONS			
HALF ROUND Including 'Cast Iron' Style 	NIAGARA OGEE Including 'Cast Iron' Style 		
SQUARE LINE 	MINIFLO 		
HI-CAP Including 'Cast Iron' Style 	XTRAFLO 		

HOPPER FLOW RATES

HOPPERS		
Code	Hopper Flow (litres/sec) Max flow rate	Roof Area (m ²) Max flow rate
RH1/RHS1	1.14	54.5
RH4	2.18	104.5
RH5	2.18	104.5
RHH1	1.66	79.5



RAINWATER SYSTEMS

COMPATIBILITY CHART

FLOPLAST SYSTEM:	XTRAFLO		NIAGARA		HI-CAP		HALF ROUND		SQUARE		MINIFLO	
COMPETITOR	Gutter	110mm Pipe	Gutter	65mm Square Pipe	Gutter	68mm Round Pipe	Gutter	68mm Round Pipe	Gutter	65mm Square Pipe	Gutter	50mm Round Pipe
Brett Martin	✗	✓	✗	✓	✓	✓	✓	✓	✗	✓	✗	✗
Osma	✗	✓	✗	✗	✓	✓	✓	✓	✗	✗	✗	✗
Polypipe	✗	✓	✗	✓	✓	✓	✓	✓	✓	✓	✗	✗
Terrain	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
Marley	✗	✓	✗	✓	✓	✓	✓	✓	✗	✓	✗	✗
Hunter	✗	✓	✗	✓	✗	✓ (Tight fit)	✓	✓ (Tight fit)	✓	✓	✗	✗
Swish	✗	✓	✗	✓	✗	✓	✓	✓	✓	✓	✗	✗
Kalsi	✗	✓	✗	✓	✓	✓	✓	✓	✓	✓	✗	✗
Freefoam	✗	✓	✗	✓	✓	✓	✓	✓	✓	✓	✗	✗

Key : ✓ Fully Compatible ✓ Compatible in one direction only ✗ Not Compatible

The above table is a guide only for connection to existing fitted product. We recommend that you do not mix systems if at all possible.

RAINWATER SYSTEMS

TRANSPORT, HANDLING & STORAGE

FloPlast PVC-U pipes and gutters are supplied in secure bales bound with straps within timber frames. FloPlast recommend that movement of bales is carried out by fork lift or other mechanical device using webbing or rope strings.

The bales may be stacked up to a maximum of three high, providing that the timber frames are placed on each other.

Fittings are generally supplied in plastic bags and should be stored away from direct sunlight. If they have to be stored outside, the bags should be opened to prevent temperature build-up.

TERMS AND CONDITIONS OF SALE

Goods are sold subject to our Standard Terms and Conditions of Sale, copies of which are available upon request. FloPlast Limited reserve the right to modify or extend any product range or published information without prior notice.



Roofline, Window and
Cladding Systems



Rainwater
Systems



Soil & Waste
Systems



Underground Drainage
Systems



MDPE
Systems



Hot & Cold
Plumbing Systems

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