



**1A Frithwood Avenue  
Northwood  
HA6 3LY**

## **MATERIALS**

AUGUST 2024

**WINDOWS:**

To match existing windows, Aluminium AluK - 58BW Window System White Flushed casement windows with soldier course brickwork above window.

Windows glazing will have Georgian wire glass to match existing windows.



## WALLS:

### Conservation Yellow Multi Stock Brickwork

Conservation Yellow Multi Stock are yellow handmade bricks blended with pinks and reds, with some black and white faces. These characterful bricks replicate the old yellow stock bricks which are a signature building material throughout London and the South East of England. The bricks are supplied with approximately 5% of the faces in black and white, which are reversible.

Available in 68mm imperial and metric sizes, fully frost resistant and manufactured to BS EN 771-1 standards.





## GUTTERING

Marley Flowline 112 x 60mm rectilinear system matching that already used in existing house

### Flowline 112 x 60mm rectilinear system

Flowline is an attractive rectilinear profile PVCu gutter system, capable of carrying capacities in excess of standard half round gutters. Flowline is the aesthetic choice for larger roof areas. Flowline can be installed using a notched or notchless joint (see page 14-15 for full details).

**Downpipe:**

☐ 68mm ☐ 65mm

**Colours available:**



# 58BW CASEMENT HI Window



Built to the highest UK standards, the 58BW Window System delivers a high performance and cost-effective solution with impressively narrow profiles. Equally at home on residential and commercial projects, the system is available in a number of formats including Top Hung, Side Hung and French Casement.

The system's clean lines and advanced functionality meet the demands of almost every modern building construction. Its competitive pricing also makes it a highly popular choice with specifiers both in the UK and around the globe. In addition to being certified under Secured By Design and tested to PAS 24, the 58BW also holds a Green Guide 'A' rating.

## DESIGN FEATURES

- › Certified under the Secured By Design scheme
- › Tested to PAS 24
- › Integrated deep head profiles for ease of trickle ventilation
- › Unique polyamide thermal break design to improve thermal performance
- › Casement system sightlines to match the Tilt-Before-Turn window sightlines
- › Reverse rebate option for internal glazing throughout

## OPTIONS

- › Available in two frame depths: 58mm or 70mm
- › Supports both open-in and open-out projects
- › Internally or externally glazed to accommodate low and high-rise projects
- › Glazing 24mm–40mm
- › Available in the following configurations: Top Hung, Side Hung, Bottom Hung, Fixed Light, Multi-light and French Casement
- › Available for Lifetime Homes (LFT)
- › Dedicated fixing straps for ease of installation
- › Designed with a Euro Groove to accommodate standard locking hardware
- › Smoke vent certification compliance to EN12101-2:2003 Annex G
- › Available in single or dual colour polyester powder coating, texture and anodised finishes

SPECIFICATIONS

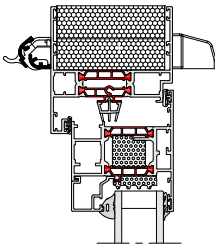
Performance and accreditations	58BW CASEMENT HI
U-Value (Double Glazing)	1.4 W/m²K
U-Value (Triple Glazing)	1.2 W/m²K
Window Energy Rating (WER)	B - C
BRE Green Guide Rating	A rated
Air Permeability	Class 4 (600 Pa)
Water Tightness	Class 9a (600Pa)
Wind Resistance	Class E2400 (2400 Pa)
Security	PAS 24
3rd Party Certification Q-Mark	✓
<b>System</b>	
Depth	58 & 70mm
<b>Configurations</b>	
Opening	Open-Out
Top Hung	✓
Side Hung	✓
Bottom Hung	✓
Tilt & Turn	-
Fixed Light	✓
Multi-Light	✓
French Casement	✓
<b>Size and weight limits</b>	
<b>Top Hung</b>	
Max Size (mm)	1750w x 2500h
Min. Size	300w x 350h
Max Weight	180kg
<b>Side Hung</b>	
Max Size (mm)	838w x 1750h
Min. Size	300w x 300h
Max Weight	55kg
<b>Bottom Hung</b>	
Max Size (mm)	1750h x 1750w
Min. Size	350h x 350w
Max Weight	45kg (5 hinges)
<b>Butt Hinges (Side &amp; Bottom Hung)</b>	
Top hung (max weight)	40 Kg
Side hung (max weight)	24 Kg
<b>Fixed Light</b>	
Max Weight	250kg
<b>Glazing</b>	
Glazing Options Internal Bead	Internal & External Bead
Glazing Thickness **	24mm - 40mm
<b>System Features</b>	
Single Colour	✓
Dual Colour	✓
Textured Finish	✓
Anodised Finish	✓
Multi-Point Locking	✓
Smoke Vent Compliance	✓
Sightline (Frame to Vent)	75mm
Sightline (Vent to Mullion)	89mm
Sightline (Fixed Light)	43mm

\*\*Glazing thickness: Other thicknesses may be possible dependant on profile combinations specified. Fabricators should refer to AluK technical manual glazing section for details.

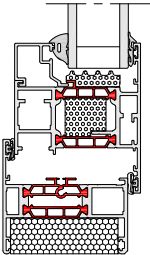
CAD CROSS SECTIONS AND THERMAL PROFILE

Additional details are available on request.

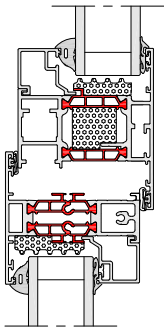
➤ 58BW CASEMENT HI HEAD



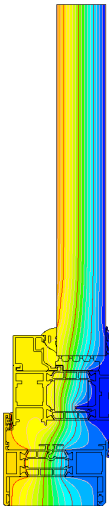
➤ 58BW CASEMENT HI JAMB



➤ 58BW CASEMENT HI MULLION



➤ 58BW CASEMENT HI THERMAL PROFILE





## TECHNICAL INFORMATION

<b>BRICK NAME</b>	<b>CATEGORY 44 COMPRISING OF:</b> Conservation Yellow Stock Conservation Yellow Multi Stock Reclamation Yellow Stock Reclamation Yellow Multi Stock Langworth Yellow Weathered Langworth Yellow
<b>BRICK TYPE</b>	Through colour clay handmade brick
<b>SPECIFICATION</b>	Manufactured to BS EN 771-1
<b>SIZE*</b>	73 x 228 x 108mm (Langworth Yellow and weathered Langworth Yellow) 68 x 228 x 108mm 65 x 215 x 102.5mm
<b>DIMENSIONAL TOLERANCE:</b>	TM
<b>RANGE:</b>	RM
<b>COMPRESSIVE STRENGTH</b>	Mean – 13.4 N/MM <sup>2</sup>
<b>WATER ABSORPTION</b>	Mean - 22%
<b>SOLUBLE SALT CLASSIFICATION</b>	S2
<b>PACKAGING</b>	Shrink wrapped on wooden pallets in packs of: 560 540 (Conservation Yellow Stock 68mm) 600 (Conservation Yellow Stock 65mm)
<b>PACK SIZE; LxWxH</b>	1100 x 1100 x 1100mm Approx.
<b>PACK WEIGHT</b>	1.5 Tonnes Approx.
<b>USAGE</b>	Always mix from several packs, working vertically down the blades, not horizontally across the tops of the packs
<b>SAMPLES</b>	Samples will be supplied on request
<b>DURABILITY</b>	F2
<b>PERFORMANCE</b>	The recommendations of good practice made in the relevant British Standards regarding design and workmanship must be fully observed. Liability cannot be accepted for the performance of the product if used outside our recommendations. Guidance on the use of these bricks in specific situations is readily available from us.

Individual bricks may vary dimensionally; this is a natural characteristic of fired clay bricks and is catered for in the relevant European Standard.







# Rainwater Systems



[marley.co.uk](http://marley.co.uk)



## Marley Rainwater Systems

The Marley Plumbing & Drainage rainwater range consists of six gutter profiles and four downpipe options. Advanced Life4 technology on four of the key profiles, coupled with the benefits of the easyclip and notching capability combine to make the Marley rainwater range the most comprehensive available.

### Production information

Information on the complete range of Marley Plumbing & Drainage system solutions is available to download from [marley.co.uk](http://marley.co.uk) or available via the literature hotline 01622 852585.



BS EN ISO 9001:2008  
BS EN ISO 14001:2004



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The systems



Applications

The choice of size and profile means that the range includes a system for almost any building or application.

Rainwater system	 Porches, greenhouses & sheds	 Conservatories	 Small to medium houses	 Medium to large houses	 Flats, small to medium commercial projects
Deepflow		●	●	●	●
Clip-master	●	●	●	●	●
Flowline	●	●	●	●	●
Deepflow150				●	●
Classic		●	●	●	●
Industrial					●

●

 Ideal application

●

 Suitable

Deepflow 110 x 75mm semi-elliptical system

Still the market leader, the Deepflow semi-elliptical profile produces self cleansing flow resulting in a very high capacity. Deepflow can be installed using a notched or notchless joint (see page 14-15 for details).

Downpipe: 

○

 68mm 

□

 65mm

 Colours available: 

□

■

■

■



Clip-master 112 x 49mm nominal half round system

Clip-master is a practical, easy to install PVCu nominal half round gutter system which is compatible with most other manufacturers' half round systems. Clip-master can be installed using a notched or notchless joint. (see page 14-15 for full details).

Downpipe: 

○

 68mm 

□

 65mm

 Colours available: 

□

■

■

■



Flowline 112 x 60mm rectilinear system

Flowline is an attractive rectilinear profile PVCu gutter system, capable of carrying capacities in excess of standard half round gutters. Flowline is the aesthetic choice for larger roof areas. Flowline can be installed using a notched or notchless joint (see page 14-15 for full details).

Downpipe: 

○

 68mm 

□

 65mm

 Colours available: 

□

■

■



Deepflow150 155 x 98mm high capacity semi-elliptical system

Deepflow150 is a larger version of the Deepflow profile and is ideal for small to medium commercial projects, flats and industrial applications. Capable of carrying up to 6.0 litres a second. Deepflow150 can be installed using a notched or notchless joint (see page 14-15 for full details).

Downpipe: 

○

 82mm

 Colours available: 

□

■

■

■

■



Classic 116 x 75mm ogee style system

Classic is a bold, highly decorative, Ogee style PVCu gutter system, featuring both internal and external fascia brackets. All Classic fittings are supplied complete with clips and seals. Outlets and unions incorporate screw fixing points to anchor fittings for the control of thermal movement.

Downpipe: 

○

 68mm 

□

 65mm

 Colours available: 

□

■

■



Industrial 150 x 75mm high capacity true half-round system

150mm half round industrial PVCu gutter system is designed to meet the requirements of large commercial and industrial installations. Capable of carrying up to 5.68 litres a second. Industrial is installed using the notched technique.

Downpipe: 

○

 110mm

 Colours available: 

□

■

■





## Rainwater systems that stay looking better for longer

We're all affected by the steady advance of time. Years of exposure affects how everything looks. Marley Plumbing & Drainage have advanced the manufacturing process to create Life4. Life4 rainwater systems can withstand exposure for up to four times longer than standard PVCu rainwater gutters and downpipes.

### Looks better...

Life4 gutters and downpipes have high gloss levels that are consistent with the fittings, improving the overall aesthetic of the system. The gloss level is typically 85% compared to a norm of 40 - 50% on standard systems.

### ...for longer

Not only do Life4 products look better, they last longer. Life4 products have been exposed to up to four times the European weathering test duration and performed admirably (see right).



## Life4 – the performance standard

The benchmark for weathering tests for rainwater systems is set out within European standards\*. The weathering test essentially mimics actual conditions, but also accelerates them in order that long term performance may be assessed. This artificial ageing type test consists of 1600 hours of exposure to high intensity UV lighting with specified levels of irradiation and condensation, which is designed to emulate approximately 3 years of natural weathering.

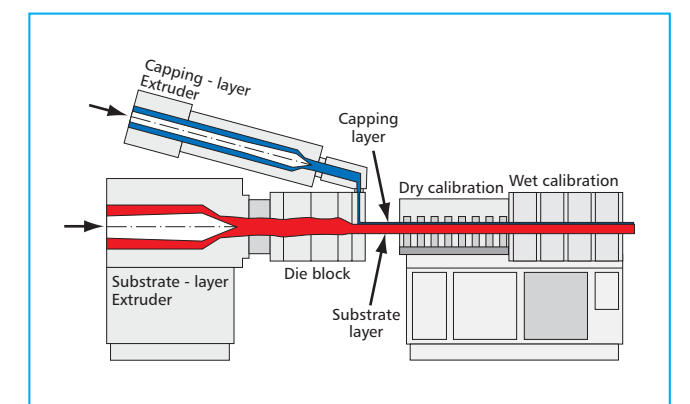
Standard Marley rainwater systems achieve excellent results when measured to this requirement.

In order to demonstrate the enhanced performance of Life4, gutters and downpipes were exposed to the artificial ageing test for up to four times this duration (6400 hours). Measurements taken after this extended test showed that the extent of colour fade was still well below that permitted in the European Standard after 1600 hours.

## Life4 – the science of production

Life4 uses a higher specification material to form a capping layer on the outside of the gutter or pipe. This material is by its very nature more durable and has a high gloss finish.

The remaining material used in the product is standard PVCu containing 15% post production recycled material. All materials are lead free.




\*BS EN 607:2004 Eaves gutters and fittings – PVCu and EN 12200-1: 2000 Plastics rainwater piping systems for above ground external use – PVCu. (These standards replace the previous British Standard, BS4576.)



# Key components

Marley rainwater systems offer complete roof drainage solutions for a variety of building sizes and styles. Pictured is a selection of key components within the range. For rainwater product specifications, see pages 20 – 38.




### The iconic Marley socket

The origins of the iconic double ‘bump’ on our rainwater pipe socket stem from the fact that Marley was the first company in the UK to manufacture rainwater gutter. The design emulated the traditional material most often used for drain pipes, cast iron.

### Socket clip

The socket clip fits neatly around the iconic Marley socket, keeping the clip firmly in place.



## Easyclip

Deepflow, Clip-master, Flowline and Deepflow150 rainwater systems benefit from the Marley easyclip, which makes jointing both easy and reliable. The easyclip has twin compression tabs, which apply downward pressure onto the gutter seal, to ensure a watertight joint. A positive ‘click’ is made when the gutter is in place. The easyclip also makes life easy if you need to dismantle the joint.



Easyclip

## Notch adaptor (RGNA1)

It is possible to adapt the easyclip to make fittings suitable for ‘notch’ jointing, by fitting a ‘notch adaptor’ into the centre of the easyclip. The adaptor will then fit into a notch cut into the back of the gutter. This is an effective way of allowing gutter to expand and contract due to temperature change without gutter and fitting pulling apart. There is also no need to anchor fittings to the fascia, an ideal solution when using rafter arm brackets (see page 13).



Notch adaptor (RGNA1)

## Pipe clips

Two different pipe clip fixing methods are available. A one piece clip for flush fixing or a two piece clip to fit both the downpipe and pipe socket. These are used with backplate RCB300 and allow for adjustment.



One piece pipe clip



Two piece pipe clip

## Hopper head (RH252)

Designed with a curved front in order to collect high velocity rainwater and with a flow rate of 5.14 l/s, this hopper head can easily deal with the concentrated discharge that is likely during peak rainfall conditions.

For hopper head flow rates, see page 12.



With square downpipe



With circular downpipe

## Rain diverter (RD25R)

The need to reuse rainwater has become a way of life. The Marley rain diverter provides a simple solution for connecting downpipe to a water butt to capture this precious resource. Suitable for use with 68mm circular or 65mm square PVCu downpipes and available in black, brown, grey and white.



Rain diverter (RD25R)

## Side fixing points

Side fixing points on outlets allow fast fixing, whether power or hand tools are used.



Running outlet with side fixing points

## Fascia bracket roller bars

The fascia brackets on all rainwater systems feature roller bars to aid thermal movement.



Fascia bracket

## Gutter adaptors

Gutter adaptors to enable connection from Clip-master to Flowline, half round to cast iron or Clip-master to Ogee cast aluminium are all available as standard items.



Clip-master to Flowline adaptor (RGA2R)

Half round to cast iron adaptor (RGA1R). Also suitable for adapting 100mm to 112mm half round

Clip-master to Ogee cast aluminium adaptor (RGA4 [shown] & RGA5)

## Drain adaptors

Drain adaptors allow connection from 65mm square to 68mm circular plain and socketed pipe.



Flexible rubber adaptor (RA42)

65mm square socket to 68mm socketed pipe adaptor (RLE2)

65mm square socket to 68mm plain ended pipe adaptor (RLE4)

Design basis

To assess the suitability of a gutter system to drain the roof of a building the following factors need to be taken into consideration:

- 1. The effective roof area to be drained.
- 2. Rainfall intensity.
- 3. The flow characteristics of the gutter system.
- 4. The number and position of downpipes.

1. Effective roof area

The effective roof area can be determined by calculation in accordance with the following:

- BS EN 12056-3:2000, Roof drainage layout and calculations.
- The Building Regulations 2002 Approved Document H, Part H3.

The formula and example shown below reflects the method used in the above standard to calculate effective roof area.

Multiplication factors

An alternative approach to that described above is the use of multiplication factors to establish effective roof area. From plan area the appropriate factor for the roof slope can be applied to determine the effective area.

This method is similar to that shown in Approved Document H of the Building Regulations. The table below provides a wider range of factors to enable accurate assessment of effective roof area to be determined.

Roof pitch	Factor	Roof pitch	Factor
10°	1.088	30°	1.288
12.5°	1.111	32.5°	1.319
15°	1.134	35°	1.350
17.5°	1.158	37.5°	1.384
20°	1.182	40°	1.419
22.5°	1.207	42.5°	1.459
25°	1.233	45°	1.500
27°	1.260	47.5°	1.547

Vertical surfaces

Where pitched roofs abut vertical walls the catchment area is likely to be increased as a result of wind driven rain. To allow for this half the vertical surface area of the wall should be added to the effective area of the sloping roof.

Flat roofs

For roofs with a pitch of less than 10°, the effective area is taken as the plan area.

2. Rainfall intensity

The Building Regulations 2002 Approved Document H and BS EN 12056-3: 2000 provide detailed information on rainfall throughout the UK by geographical location and frequency of occurrence. The flow rates shown below for Marley PVCu gutter systems have been determined from tests carried out in accordance with the test procedure in BS EN 12056-3: 2000.

Gutter selection

Although aesthetic appearance is an important aspect in the selection of a particular gutter system, the following factors also need to be taken into consideration as they could influence the final choice of system.

- The size of gutter and its flow capacity.
- Whether the gutter is fitted level or to a fall.
- If end or centre outlet position for downpipes are adopted.
- The length of gutter to an outlet/ downpipe.

3. Flow capacity

The maximum flow capacity of different Marley gutter systems can be compared from the tables shown below. The capacity of each system varies depending on profile, size and whether the gutter is fitted level or to a fall. For design purposes eaves gutters are normally sized to ensure the calculated run-off does not exceed 90% of the gutter capacity. It is also recommended that gutters are fixed level as this enables the gutter to be fitted as high as possible to ensure the correct relationship is maintained at the roof edge.

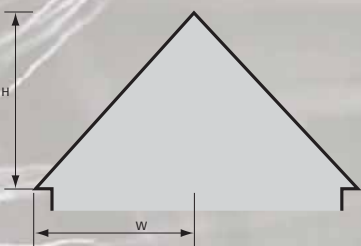
Effect of valleys

Where valleys occur it is good practice to position an outlet adjacent to the internal angle to deal with the concentrated discharge that is likely at such points during peak flow conditions. Depending on the size of roof it may also be beneficial to fit a corner hopper where the flow is considerable.

4. Rainwater pipe sizes

With the exception of the Industrial and Deepflow150 gutter systems which have 110mm and 82mm diameter downpipes respectively, all other Marley PVCu gutter systems incorporate outlets suitable for 68mm circular or 65mm square rainwater pipes. This size of downpipe has been selected as it has the necessary capacity to accommodate the maximum flow from any of the gutter systems.

Effective roof area



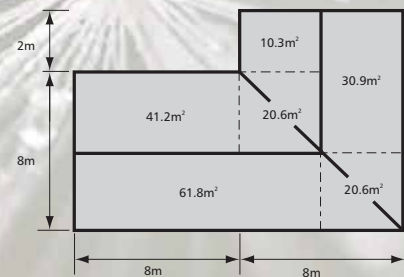
$$\left(\frac{H}{2}\right) + W \times L = m^2$$

For example a roof 4m high x 4m wide x 10m long  
 $2 + 4 \times 10 = 60m^2$

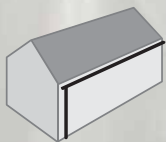
Multiplication factor method



Using the same roof dimensions as the example above with a 45° roof pitch.  
4m wide x 10m long x 1.5 = 60m²

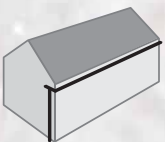


Outlet at one end



	level		fall 1:600	
Gutter system	m²	l/s	m²	l/s
Clip-master	43	0.90	48	1.00
Flowline	70	1.46	84	1.75
Deepflow	90	1.90	110	2.31
Classic	103	2.16	-	-
Industrial	127	2.67	152	3.20
Deepflow150	133	2.80	-	-

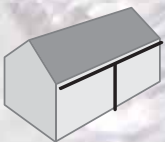
Outlet at one end with an angle within 2m of outlet



	level		fall 1:600	
Gutter system	m²	l/s	m²	l/s
Clip-master	39	0.81	43	0.95
Flowline	63	1.31	76	1.58
Deepflow	81	1.70	99	2.07
Classic	93	1.94	-	-
Industrial	116	2.44	138	2.90

For gutters with angles further than 2m from the outlet increase the above figures by 5%

Outlet in centre



	level		fall 1:600	
Gutter system	m²	l/s	m²	l/s
Clip-master	84	1.75	92	1.92
Flowline	135	2.84	170	3.40
Deepflow	185	3.90	226	4.75
Classic	216	4.55	-	-
Industrial	270	5.68	326	6.84
Deepflow150	286	6.00	-	-



# Installation data

## Gutter position

The spread of water as it leaves the roof edge can vary considerably depending on the rainfall intensity, type of roof surface and the pitch of the roof. BS EN 12056-3: 2000 recommends that eaves gutters should be fitted in such a position that they intercept the flow at the roof edge and that gutters are fitted centrally under the roof tile and close beneath it.

Gutters can be installed level or with a nominated gradient of 1:600. If fitted to fall, care should be taken to ensure the top of the gutter does not fall below the roof tile to such an extent that the water will pass over the front edge of the gutter. It is also important that the eaves course of the tile or slate should not project too far over the fascia board and a maximum of 50mm is recommended for 112-125mm nominal size gutters.

## Fascia brackets

All Marley PVCu gutter fascia brackets have been tested to the loading tests as detailed in BS EN 1462 and perform in excess of the highest classification, Class H heavy duty, which requires brackets to support a dead weight load of 75kg, to simulate snow load.

It is recommended that brackets are fixed with the aid of a string line to maintain alignment and bracket centres must not exceed 1m maximum centres. When fixing to cellular fascia boards the two outer most fixing holes must be used and 1" x 10g (32x5mm) pan or round head non-ferrous screws should be used. The use of countersunk screws is not recommended.

When fixing to cellular fascia boards of less than 16mm thick, a timber support batten should be fitted behind to ensure a secure fixing is obtained. To improve the loading characteristics of the gutter system, fascia bracket centres can be reduced but in

areas of the country that experience frequent heavy snow fall, the use of snow boards is recommended as advised in BS EN 12056-3: 2000.

The use of the gutter bracket centre fixing hole is not recommended and is provided to facilitate the adjustable rafter arm brackets RSA1A and RTA1A.



Fascia bracket

## Hopper Heads

The flow capacities of different size hopper heads are shown in the table below and are based on a rainfall intensity of 0.021 l/s per square metre of roof area.

Product Code	Pipe Size	Roof Area m <sup>2</sup>	Flow rate litres/second
RH252	68mm	247m <sup>2</sup>	5.14l/s
RH25	68mm	360m <sup>2</sup>	7.56l/s
SH30	82mm	196m <sup>2</sup>	4.11l/s
SH40G	110mm	720m <sup>2</sup>	15.12l/s
SH40B	110mm	720m <sup>2</sup>	15.12l/s
SH60	160mm	935m <sup>2</sup>	19.63l/s

## Roof and balcony outlets

Marley provide a range of roof outlets, sized to suit various applications. 68mm PVCu outlets are shown on page 38. Aluminium outlets, sized 50-150mm are shown on page 5 of the Alutec Roof and Floor Drainage Guide.

## Rafter arm brackets

Rafter arm brackets can be used with all Marley gutter systems. Additional structural fixings should be provided when used with a clip-jointed gutter system, to enable key fittings to be anchored and supported for the control of thermal movement.

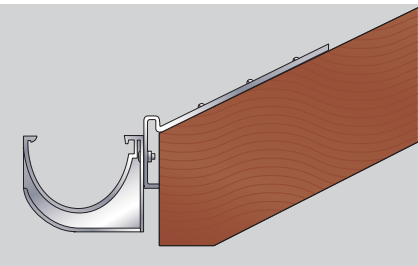
It is recommended that notched gutters are used on buildings without fascia boards as key fittings such as unions and outlets do not need to be secured and can be positioned adjacent to structural fixing points. Top rafter brackets, RTA1 or RTA1A, will need to be fitted before the roof is tiled. Side rafter brackets, RSA1 or RSTA1A, may be fitted afterwards and are easily adjusted to accommodate minor variations in line and level. Nuts and bolts are supplied to secure fascia brackets to the rafter arm. Although fixings are controlled by rafter centres it is important to meet gutter support recommendations previously described.

## Rise and fall brackets

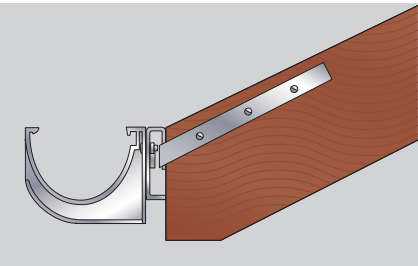
Rise and fall brackets, RKF1, can be used with clip-jointed gutters although a notched system is recommended as described for rafter arm fixing above. Nuts and bolts are supplied to secure fascia brackets to the multi-fit face plate. It is recommended that pilot holes are drilled in mortar joints before the spike is driven in to avoid cracking the brickwork bond. Bracket centres should not exceed 600mm.

## Angle fascia bracket

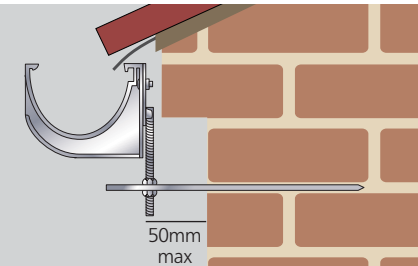
Angle fascia bracket adaptors, RKA1, RKA2, are required when a sloping fascia board is employed at the eaves. The galvanised mild steel adaptor is fitted behind the fascia bracket with two 1¼" x 10g (45x5mm) non-ferrous round head screws passing through both bracket and adaptor.



RSA1A adjustable side rafter arm, RSA1 also available



RTA1A adjustable top rafter arm, RTA1 also available



RKF1 rise and fall bracket

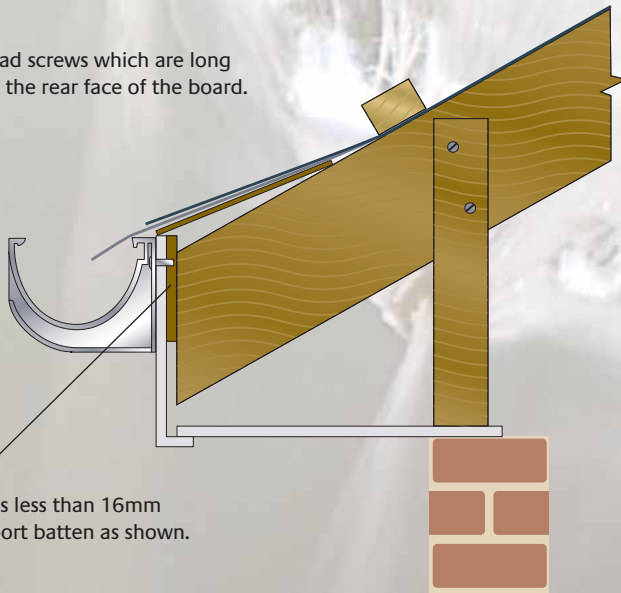
## Rainwater system installation



## Fixing to cellular fascia board

Use two parallel thread screws which are long enough to penetrate the rear face of the board.

If the cellular board is less than 16mm thick, fit timber support batten as shown.





Clip-jointed gutter systems

Each joint is made by inserting the plain edge of gutter into the fitting and locating under the rear clip. At the same time ease the front edge of fitting forward and up until the gutter clips under the front edge. Care must be taken to ensure that each length of gutter is fitted to the insertion mark on each fitting. This is particularly important and attention to this will ensure trouble free performance for many years.

Unions and outlets incorporate fixing holes in the rear edge which must be used to secure the fitting to the fascia board. This is essential for the control of thermal movement that occurs with temperature variations. The length of gutter to a stopend from a fitting must not exceed 300mm. Where this is exceeded a union must be fitted and secured as previously described with a short piece of gutter to the stopend. With Deepflow, Deepflow150, Clip-master and Flowline the length of gutter to a stopend can be retained using the notch technique and adaptor RGNA1 to eliminate this particular restriction (see opposite).



Notched gutter systems

It is possible to adapt the easyclip to make fittings suitable for 'notch' jointing, by fitting a 'notch adaptor' into the centre of the easyclip. The adaptor will then fit into a notch cut into the back of the gutter.

This is an effective way of allowing gutter to expand and contract due to temperature change without gutter and fitting pulling apart. There is also no need to anchor fittings to the fascia. This method is ideal to anchor the last joint of a gutter run which ends with a stopend.

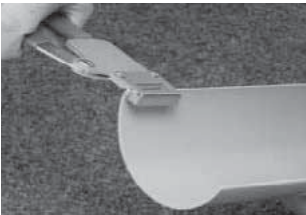
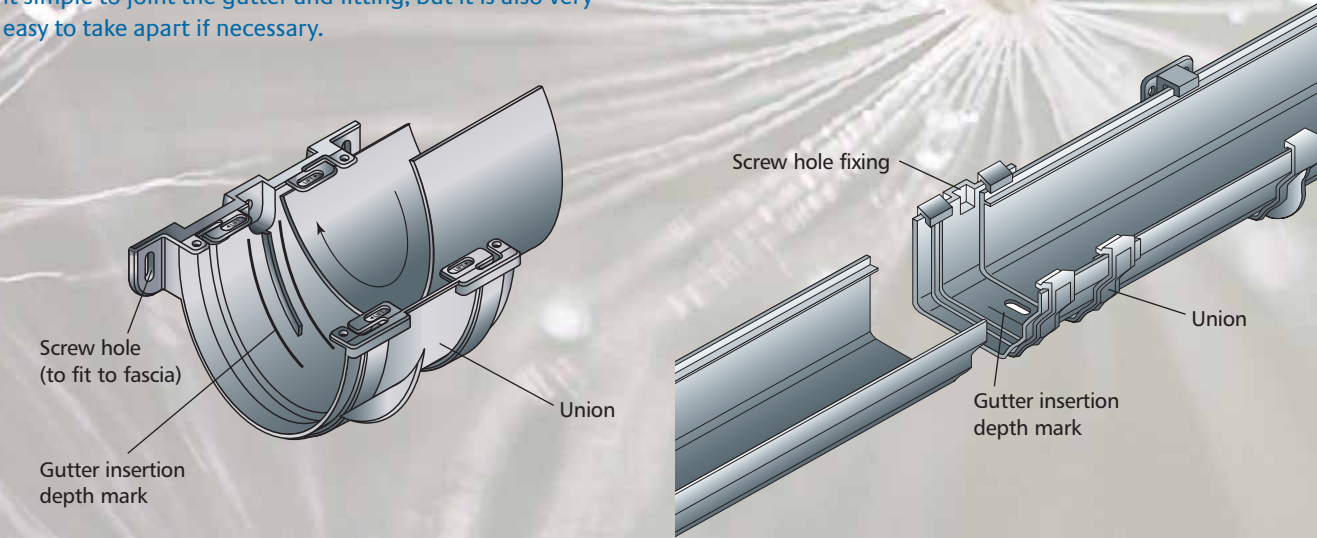
To watch a video demonstration of notch jointing, go to [www.marleyplumbinganddrainage.com/videos/4rainwater.html](http://www.marleyplumbinganddrainage.com/videos/4rainwater.html)



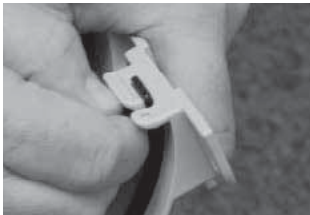
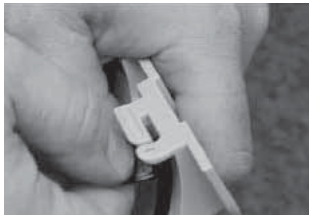
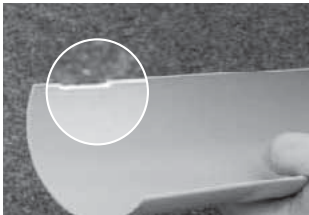
Deepflow, Deepflow150, Clip-master and Flowline can be installed as notched systems.

Deepflow, Deepflow150, Clip-master and Flowline systems are jointed via the innovative easyclip which makes it simple to joint the gutter and fitting, but it is also very easy to take apart if necessary.

The Classic system is jointed by means of pre-fitted clips on all fittings.



Using a notching tool, RGN1, notch the rear of the gutter. Notches must be made to both ends of a length of gutter.



A notch adaptor RGNA1 is then inserted into the easyclip from the underside, between the gap in the body of the fitting and the clip arm. Insert one end of the short side of the adaptor into the open end of the easyclip. Twist the other side of the adaptor into place. The adaptor is necessarily a tight fit to ensure it stays in place.



The notched gutter end is located under the notch adaptor and the joint completed by clipping the gutter under the easyclip on the front of the fitting.



When correctly assembled, a notched joint cannot pull apart and will absorb expansion and contraction associated with variations in temperature, while maintaining a watertight seal.



General

As rainwater pipes are generally fitted externally, joints between each spigot and socket length do not need to be sealed. However offset fittings are sized to allow for push fit or solvent weld jointing.

Gutter outlets are normally positioned directly above drain connections but on occasions it may be necessary to rotate the offset to avoid obstructions below. However when using the square downpipe system, the gutter outlet should be positioned directly above the rainwater drain connection, as square offsets cannot be rotated.

Where a RH25 hopper head is used, the RLE3 outlet adaptor with a pipe socket are required to provide the necessary transition from circular to square.

1. Offset assembly

Offsets can be easily constructed on site from a range of bends depending on the roof overhang at the eaves.

Where offsets exceed 600mm it is recommended that bends are solvent welded to gutter outlet spigots to ensure a positive connection. When two 87½° bends are used to construct an offset the horizontal section of pipe should be supported with a pipe clip from the soffit.

2. Location of pipe clips

Every rainwater pipe should have a clip located round the top socket to support the downpipe system. Intermediate clips should then be located at a maximum of 1.8m centres or in the middle of each length to maintain alignment. A gap of 10mm should be left between the end of each pipe and the bottom of the socket to allow for thermal movement.

Two different pipe clip fixing methods are available. A one piece clip for flush fixing or a two piece clip to fit both the downpipe and pipe socket. These are used with backplate RCB300 and allow for adjustment.

Each should be secured with two 32 x 6.5mm non-ferrous round head screws. An extension backplate RT200 can also be used for greater adjustment of the downpipe from the wall.

3. Drain connections

External rainwater pipes usually connect direct to the surface water drain. Where a direct connection is made a reducer and a short section of pipe is used to provide the transition between different pipe sizes. A gully trap will be required to both arrangements where the drain connects to a combined foul and surface water drainage system.

Circular downpipe systems

Marley **Deepflow**, **Classic**, **Flowline** and **Clip-master** gutters all have outlets designed to suit 68mm circular downpipe, which has sufficient capacity to accommodate the maximum flow from the above gutter systems.

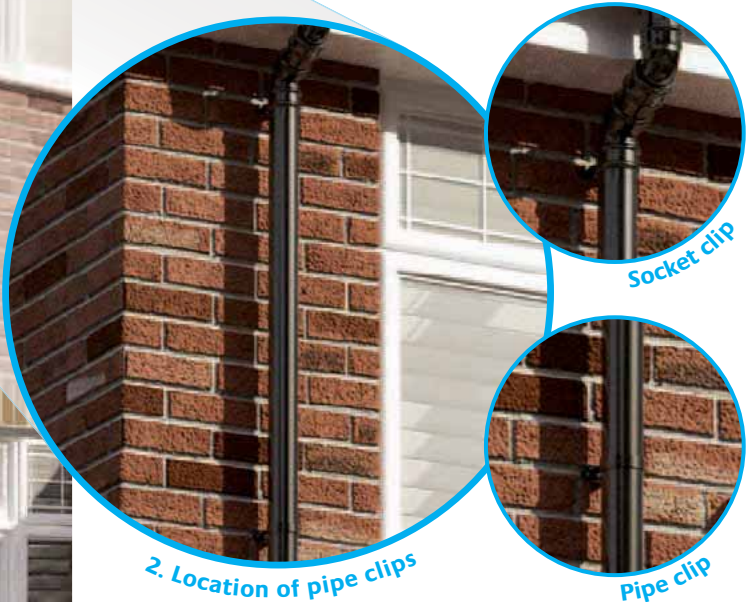


Square downpipe systems

Marley **Flowline** and **Classic** gutter systems are available with outlets suitable for 65mm square and 68mm circular rainwater pipes. For aesthetic reasons, the 65mm square system is normally preferred but both have sufficient capacity to accommodate the maximum flow from either system.



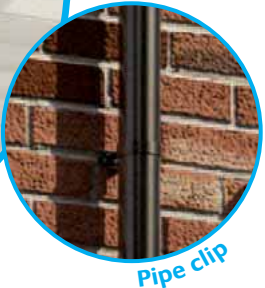
1. Offset assembly



2. Location of pipe clips



Socket clip



Pipe clip



3. Drain connections



# Standards

## British & European Standards

**BS EN 12056-3: 2000**

Gravity drainage inside buildings: Roof drainage, layout and calculation.

**BS EN 607: 2004**

Eaves gutters & fittings - PVCu. Definitions, requirements and testing.

**BS EN 12200-1: 2000**

Plastics rainwater piping systems for above ground external use - PVCu.

**BS 4576-1: 1989**

Specification for PVCu half round gutters and circular pipe.

**BS EN 1329-1: 2000**

Plastics piping systems for soil and waste discharge systems - PVCu.

**BS EN 1462: 2004**

Gutter brackets. Classification, requirements & testing.

**BS EN 681-1: 1996**

Elastomeric seals. Material requirements for pipe joint seals used in water and drainage applications. Part 1 vulcanised rubber.

**BS 4255-1: 1986**

Specification for non-cellular gaskets for buildings.

**BS EN ISO 9001: 2008**

Quality management system. Model for Quality Assurance in Design, Development, Production, Installation and Servicing.

**BS EN ISO 14001: 2004**

Environmental management systems. Requirements with guidance for use.

# Marley system solutions



**Marley PVCu Soil**

Standard PVCu soil systems to BS EN 1329: 2000. Ideal for domestic and commercial applications, including branch connections to other materials. Available in 82mm, 110mm and 160mm, ring seal and solvent weld jointing variants.



**Marley HDPE**

Marley Akatherm HDPE is a drainage system which offers an alternative solution to cast iron. It is particularly suited for commercial applications or where a product with high impact or abrasion resistance is required, such as hospitals, hotels, schools, as well as residential buildings. HDPE will also cope with temperature variations of -40°C to 100°C making it ideal for external as well as internal installations.



**Marley dBlue**

An acoustic soil and waste range with a triple layered pipe providing quick, hygienic removal of sanitary waste water. The noise generated by the flow of water is dramatically reduced – making it perfect for multi-occupancy apartment blocks and high specification developments.



**Marley waste systems**

A wide range of PVC-C, ABS and polypropylene waste ranges from 32mm to 50mm and in a variety of colours. The range includes waste traps in a hygienic white finish and higher specification chrome finish. Available with solvent weld, compression and push fit jointing.



**Marley sanitary**


High quality, durable, water and energy efficient solutions for the modern wash room. The range includes sanitary frames, concealed cisterns, flush actuation plates, linear and point drainage. Ideal for all situations, from commercial applications, including special products for schools, to high specification domestic settings.




**Marley underground systems**

The Marley Plumbing & Drainage range of underground systems include the solid wall range, predominately for round the house drainage and Quantum structured wall range for sewer and highway drainage applications.

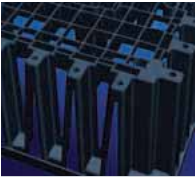
## Accreditations



**BS EN 607: 2004**  
**BS EN 12200**  
**BS 4576: 1989**  
**BS EN 1329-1: 2000**



**BS EN ISO 9001:2008**  
**BS EN ISO 14001:2004**



**Marley sustainable drainage**

The Waterloc250 cell is ideal for use in either an underground infiltration or attenuation system. 96% of the cell volume is available to store water, minimising the extent of excavation required for the installation. The range includes Flowloc, a vortex control device, which controls the rate at which water is discharged to a surface water drain or water course.



**Marley Alutec**

Alutec offer modern and traditional aluminium rainwater profiles, providing solutions for any type of building. Aluminium has high visual appeal and durability, lasting for 50 years or more. The product portfolio includes Evolve; easy to install, low cost gutter systems in four profiles. The rainwater ranges are complemented by aluminium soffit and fascia systems and roof & floor outlets.



**Marley Equator**

Equator is ideal for hot & cold water or central heating installations. A tamperproof fitting with a unique grip release mechanism ensuring that the system can only be disassembled through the use of a special de-mounting tool. Equator has been designed to meet the requirements of BS 7291: Parts 1 & 3; Class S. The complete Equator system is backed by a 30 year guarantee.



# Product specifications

## Deepflow 110 x 75mm semi-elliptical system

### GUTTER

Size	Code	CSA mm <sup>2</sup>	A	B	Colour	Qty
3m	<a href="#">RGD3</a>	6043	75	110	W B G BR	5
4m	<a href="#">RGD4</a>	6043	75	110	W B G BR	5

### UNION BRACKET

Code	A	B	Colour	Qty
<a href="#">RUD10</a>	155	40	W B G BR	20

Adaptors to join different gutter profiles are available to order

### FASCIA BRACKET

Code	A	B	C	Colour	Qty
<a href="#">RKD1</a>	131	100	50	W B G BR	80

When used with 2 hole screw fixings, brackets meet the heavy class of BS EN 1462

### ANGLES

Angle	Code	A	B	Colour	Qty
90°	<a href="#">RAD10</a>	176	40	W B G BR	20

Angle	Code	A	B	Colour	Qty
45°	<a href="#">RAD20</a>	108	80	W B G BR	15

Special gutter angles are available to order. Please state angle required.

### RUNNING OUTLET

Code	A	B	C	Colour	Qty
<a href="#">ROD10</a>	275	164	153	W B G BR	12

68mm circular spigot

### STOPEND OUTLET

Code	A	B	C	Colour	Qty
<a href="#">ROD20</a>	227	164	107	W B G BR	15

68mm circular spigot

### EXTERNAL STOPEND

Code	A	Colour	Qty
<a href="#">RED10</a>	44	W B G BR	40

### NOTCH ADAPTOR

Code	A	B	Colour	Qty
<a href="#">RGNA1</a>	16	18	B	20

To adapt fitting for notch jointing

## Clip-master 112mm nominal half round system

### GUTTER

Size	Code	CSA mm <sup>2</sup>	A	B	Colour	Qty
3m	<a href="#">RGC3</a>	3997	49	112	B G BR	5
4m	<a href="#">RGC4</a>	3997	49	112	W B G BR	5

### UNION BRACKET

Code	A	B	Colour	Qty
<a href="#">RUC1</a>	155	40	W B G BR	15

### FASCIA BRACKET

Code	A	B	C	Colour	Qty
<a href="#">RKC1</a>	132	72	48	W B G BR	50

When used with 2 hole screw fixings, brackets meet the heavy class of BS EN 1462

### ANGLES

Angle	Code	A	B	Colour	Qty
90°	<a href="#">RAC1</a>	170	40	W B G BR	15

Angle	Code	A	B	Colour	Qty
45°	<a href="#">RAC2</a>	110	80	W B G BR	10

Special gutter angles are available to order. Please state angle required.

### RUNNING OUTLET

Code	A	B	C	Colour	Qty
<a href="#">ROC1</a>	275	138	155	W B G BR	15

68mm circular spigot

### STOPEND OUTLET

Code	A	B	C	Colour	Qty
<a href="#">ROC2</a>	228	138	105	W B G BR	15

68mm circular spigot

### EXTERNAL STOPEND

Code	A	Colour	Qty
<a href="#">REC1</a>	40	W B G BR	20

### SPARE CLIP

Code	A	Colour	Qty
<a href="#">RCC1</a>	24	W B G BR	30

For use with old strapped system only

### CLIP-MASTER TO FLOWLINE ADAPTOR

Code	A	B	Colour	Qty
<a href="#">RGA2R</a>	87	72	W B G BR	

Other gutter adaptors are available to order

### NOTCH ADAPTOR

Code	A	B	Colour	Qty
<a href="#">RGNA1</a>	16	18	B	20

To adapt fitting for notch jointing



# Product specifications

## Circular downpipe 68mm system

### PIPES

Size	Code	A	Colour	Qty
2.5m	RPH2525	52	B G BR	4
3m	RPH253	52	W B G BR	4
5.5m	RPH2555	52	W B G BR	4

### SOCKETS

Loose pipe socket	Code	A	B	Colour	Qty
	RL25	100	50	W B G BR	10
Solvent weld pipe socket with push-fit seal	Code	A	B	Colour	Qty
	RLR25	92	50	W B	10

### CLIPS

### One piece 8mm screw fixing holes

Code	A	B	Colour	Qty
RCZ253	94	72	W B G BR	30

### Socket clip including nut and bolt for use with RCB300 backplate

Code	A	Colour	Qty
RC251	64	W B G BR	20

### Pipe clip including nut and bolt for use with RCB300 backplate

Code	A	Colour	Qty
RC252	64	W B G BR	20

### Backplate for use with RC251/RC252 clips

Code	A	B	Colour	Qty
RCB300	48	30	W B G BR SD	20

### Nuts and bolts 20mm x 6mm

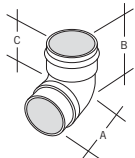

Code	Qty
RNB11	20

### BENDS

Angle	Code	A	B	C	Colour	Qty
87½°	RB251	48	75	81	W B G BR	25
Angle	Code	A	B	C	Colour	Qty
67½°	RB252	38	60	66	W B G BR	25
Angle	Code	A	B	C	Colour	Qty
45°	RB253	48	53	63	W B G BR	25

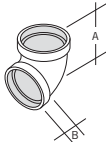

## Circular downpipe 68mm system

### OFFSET BENDS



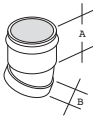

Angle	Code	A	B	C	Colour	Qty
67½°	<b>RNE255</b>	66	66	37	W B G BR	25

Socket/push-fit spigot





Angle	Code	A	B	Colour	Qty
67½°	<b>RNA250</b>	41	15	W B G BR	10

Socket/socket. For deep fascias



Angle	Code	A	B	Colour	Qty
20°	<b>RNE252</b>	51	15	W B G BR	10

Socket/socket. For 25mm offset construction



Angle	Code	A	B	Colour	Qty
20°	<b>RNE253</b>	56	15	W B G BR	10

Socket/spigot. For 25mm offset construction

### BRANCH

Angle	Code	A	B	Colour	Qty
67½°	RY252	196	90	W B G BR	10
Socket/spigot					

### ACCESS PIPE

Code	A	B	Colour	Qty
RF25	185	96	W B G BR	15
Socket/spigot				

### SHOE

Code	A	B	Colour	Qty
RS25	137	48	W B G BR	15

### LEAF GUARD

Code	A	B	C	Colour	Qty
RV225	64	55	18	W B G BR	30

### HOPPER HEAD

Code	A	B	C	D	Colour	Qty
RH252	308	174	220	200	W B G BR	6
Suitable for use with 68mm circular and 65mm square downpipe, using appropriate socket						



# Product specifications

## Flowline 112 x 60mm rectilinear system

### GUTTER

Size	Code	CSA mm <sup>2</sup>	A	B	C	Colour	Qty
4m	<b>RGF4</b>	5412	60	112	80	W B BR	5

### UNION BRACKET

Code	A	B	Colour	Qty
<b>RUF1</b>	155	84	W B BR	12

### FASCIA BRACKET

Size mm	Code	A	B	C	Colour	Qty
	<b>RKF2</b>	132	85	48	W B BR	40

When used with 2 hole screw fixings, brackets meet the heavy class of BS EN 1462

### ANGLE

Angle	Code	A	B	Colour	Qty
90°	<b>RAF1</b>	188	40	W B BR	20

Angle	Code	A	B	Colour	Qty
45°	<b>RAF2</b>	110	40	W B BR	15

Special gutter angles are available to order. Please state angle required.

### RUNNING OUTLET

		<table><tr><th>Code</th><th>A</th><th>B</th><th>C</th><th>Colour</th><th>Qty</th></tr><tr><td><b>ROF1</b></td><td>275</td><td>134</td><td>155</td><td>W B BR</td><td> 12</td></tr></table>	Code	A	B	C	Colour	Qty	<b>ROF1</b>	275	134	155	W B BR	 12
Code	A	B	C	Colour	Qty									
<b>ROF1</b>	275	134	155	W B BR	 12									

Suitable for both 68mm circular or 65mm square downpipe

### STOPEND OUTLET

Code	A	B	C	Colour	Qty
<b>ROF11</b>	225	134	110	W B BR	15

Suitable for both 68mm circular or 65mm square downpipe

### EXTERNAL STOPEND

Code	A	Colour	Qty
<b>REF2</b>	53	W B BR	20

### SPARE CLIP

Code	A	Colour	Qty
<b>RCF1</b>	24	W B GR	30

For use with old strapped system only

### CLIP-MASTER TO FLOWLINE ADAPTOR

Code	A	B	Colour	Qty
<b>RG2R</b>	87	72	W B BR	

Other gutter adaptors are available to order

### NOTCH ADAPTOR

Code	A	B	Colour	Qty
<b>RGNA1</b>	16	18	B	20

To adapt fitting for notch jointing

## Classic 116 x 75mm ogee style system

### GUTTER

Size	Code	CSA mm <sup>2</sup>	A	B	Colour	Qty
4m	<b>RCG54</b>	7377	75	116	W B BR	4
6m	<b>RCG56</b>	7377	75	116	W BR	4

### UNION BRACKET

Code	A	B	Colour	Qty
<b>RCU51</b>	88	100	W B BR	15

Adaptors to join different gutter profiles are available to order

### EXTERNAL FASCIA BRACKET

Code	A	B	C	Colour	Qty
<b>RCK51</b>	98	136	54	W B BR	40

When used with 2 hole screw fixings, brackets meet the heavy class of BS EN 1462

### INTERNAL FASCIA BRACKET

Code	A	B	Colour	Qty
<b>RCK52</b>	84	54	W B BR	40

### EXTERNAL ANGLES

Angle	Code	A	B	Colour	Qty
90°	<b>RCA51</b>	52	189	W B BR	10

Angle	Code	A	B	Colour	Qty
45°	<b>RCA511</b>	52	109	W B BR	15

Angle	Code	A	B	Colour	Qty
30°	<b>RCA510</b>	59	95	W BR	10

### INTERNAL ANGLES

Angle	Code	A	B	Colour	Qty
90°	<b>RCA52</b>	189	50	W B BR	10

Angle	Code	A	B	Colour	Qty
45°	<b>RCA522</b>	109	50	W B BR	15

Special gutter angles are available to order. Please state angle required.

#### External

Code	Colour	Qty
<b>RFB401</b>	W B BR	

#### Internal

Code	Colour	Qty
<b>RFB501</b>	W B BR	



# Product specifications

## Classic 116 x 75mm ogee style system

### RUNNING OUTLET

Code	A	B	C	Colour	Qty
RCO50	222	135	125	W B BR	15


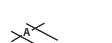
Suitable for both 68mm circular or 65mm square downpipe

### STOPEND OUTLET



Left hand					
Code	A	B	C	Colour	Qty
RCO51	177	135	66	W B BR	15
Right hand					
Code	A	B	C	Colour	Qty
RCO52	177	135	66	W B BR	15

Suitable for both 68mm circular or 65mm square downpipe

### EXTERNAL STOPEND

Left hand			
Code	A	Colour	Qty
RCE51	41	W B BR	15

Right hand			
Code	A	Colour	Qty
RCE52	41	W B BR	15

### SPARE CLIP

Code	A	Colour	Qty
RCC51	24	W B BR	30

### SPARE GUTTER SEAL



Code	Colour	Qty
RNG80	B	



## Square downpipe 65mm system

### PIPES

Size	Code	Colour	Qty
3m	RPE3	W B BR	6
5.5m	RPE2555	W B BR	2

### SOCKETS


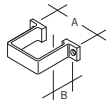
With fixing lugs


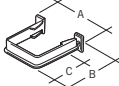
Code	A	B	Colour	Qty
RLE1	82	42	W B BR	<a href="#">🔍</a> <a href="#">❤️</a> 10


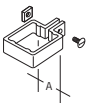
Plain



Code	A	B	Colour	Qty
RLE11	82	42	W B BR	<a href="#">🔍</a> 10

### CLIPS

### One piece 8mm screw fixing holes

Code	A	B	Colour	Qty
<b>RCE1</b>	88	40	W B BR	30

### One piece stand off

Code	A	B	C	Colour	Qty
<b>RCE3</b>	107	96	65	W B BR	5


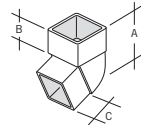
### Pipe clip including nut and bolt for use with RCB300 backplate

Code	A	Colour	Qty
<b>RCE2</b>	56	W B BR	10

### Backplate for use with RCE2 clip


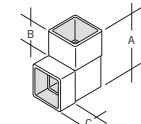
Code	A	B	Colour	Qty
<b>RCB300</b>	48	30	W B G BR SD	20

### OFFSET BENDS


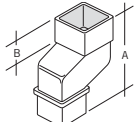
Angle	Code	A	B	C	Colour	Qty
67½°	RBE1	75	42	40	W B BR	15

Socket/spigot

Angle	Code	A	B	C	Colour	Qty
87½°	RBE3	104	40	28	W B BR	15

Socket/socket

Code	A	B	Colour	Qty
RNE1	142	42	W B BR	10

Socket/spigot  
50mm projection

# Product specifications

## Square downpipe 65mm system

### BRANCH

Angle	Code	A	B	Colour	Qty
67½°	<b>RYE1</b>	158	75	W B BR	15
Socket/spigot					

### ACCESS PIPE

Code	A	B	Colour	Qty
<b>RFB91</b>	222	95	W B BR	30
Socket/spigot				



### SHOES


With fixing lugs					
Code	A	B	Colour	Qty	
<b>RSE1</b>	115	40	W B BR	15	
Plain					
Code	A	B	Colour	Qty	
<b>RSE2</b>	140	40	W B BR	15	

### OUTLET ADAPTOR



Code	A	B	C	Colour	Qty
<b>RLE3</b>	96	51	41	W B BR	30
68mm circular spigot to 65mm square socket					

### DRAIN ADAPTORS

Code	A	Colour	Qty
<b>RLE2</b>	77	W B BR	

Adapts 65mm square socket to 68mm socketed pipe

Code	A	B	Colour	Qty
<b>RLE4</b>	98	40	W B BR	

Adapts 65mm square socket to 68mm plain ended pipe

## Deepflow150 150 x 98mm high capacity system

### GUTTER

Size	Code	CSA mm²	A	B	Colour	Qty
4m	<b>RGJ4</b>	10,060	98	155	W B G BR SD	4

### UNION BRACKET

Code	A	B	Colour	Qty
<b>RUJ1</b>	166	40	W B G BR SD	8
Adaptors to join different gutter profiles are available to order				

### FASCIA BRACKET

Code	A	B	C	Colour	Qty
<b>RKJ1</b>	174	125	49	W B G BR SD	20
When used with 2 hole screw fixings, brackets meet the heavy class of BS EN 1462					

### ANGLES

Angle	Code	A	B	Colour	Qty
90°	<b>RAJ1</b>	241	40	W B G BR SD	4
Angle	Code	A	B	Colour	Qty
45°	<b>RAJ2</b>	140	40	W B G BR SD	1
Special gutter angles are available to order. Please state angle required					
Code	Colour				
<b>RFB150</b>	W B G BR SD				

### RUNNING OUTLET

Code	A	B	C	Colour	Qty
<b>ROJ1</b>	281	192	160	W B G BR SD	20
82mm circular outlet					

### STOP ENDS

External				
Code	A	Colour	Qty	
<b>REJ1</b>	55	W B G BR SD	4	
Internal				
Code	A	Colour	Qty	
<b>REJ2</b>	44	W B G BR SD	4	

### NOTCH ADAPTOR

Code	A	B	Colour	Qty
<b>RGNA1</b>	16	18	B	20
To adapt fitting for notch jointing				



# Product specifications

## Circular downpipe 82mm system


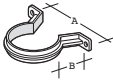
### DOWNPIPE


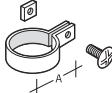
Size	Code	A	Colour	Qty
3m	RPH33	61	W B G BR SD	4
5.5m	RPH355	61	W B G BR SD	4
5.5m length available to order				



### SOCKET

Size mm	Code	A	B	Colour	Qty
	RL3	87	103	W B G BR SD	4

### CLIPS

One piece

Code	A	B	Colour	Qty
RC3	125	93	W B G BR SD	10

Pipe clip including nut and bolt

Code	A	Colour	Qty
RC32	70	W B G BR SD	20

Backplate for use with RC32 clip

Code	A	B	Colour	Qty
RCB300	48	30	W B G BR SD	20

Nuts and bolts 20mm x 6mm

Code	Qty
RNB11	20

### OFFSET BEND

Angle	Code	A	B	C	Colour	Qty
67°	RLE3	43	78	76	W B G BR SD	4

### BENDS

Angle	Code	A	B	C	Colour	Qty
87½°	RB31*	49	115	138	W B G BR SD	4
Angle	Code	A	B	C	Colour	Qty
45°	RB33*	49	78	70	W B G BR SD	4

## Circular downpipe 82mm system

### BRANCH

Angle	Code	A	B	C	Colour	Qty
45°	RY3*	229	130	55	W B G BR SD	24

### ACCESS PIPE

Code	A	B	C	Colour	Qty
RF3*	205	101	52	W B G BR SD	54

### SHOE

Code	A	B	Colour	Qty
RS3	118	22	W B G BR SD	4

# Product specifications

## Industrial 150mm high capacity half round system

### GUTTER

Size	Code	CSA mm <sup>2</sup>	A	B	Colour	Qty
3m	RGW4	8745	75	150	W B G BR	5

### UNION BRACKET

Code	A	B	Colour	Qty
RUW1	121	44	W B G BR	10

Adaptors to join different gutter profiles are available to order

### FASCIA BRACKET

Code	A	B	C	Colour	Qty
RKW1	176	100	50	W B G BR	5

When used with 2 hole screw fixings, brackets meet the heavy class of BS EN 1462

### ANGLE

Angle	Code	A	B	Colour	Qty
90°	RAW1	234	44	W B G BR	10

Special gutter angles are available to order. Please state angle required.

Code	Colour
RFB61	W B G BR

### RUNNING OUTLET

Code	Angle	A	B	C	Colour	Qty
ROW1	87½°	259	183	171	W B G BR	5

110mm circular spigot

### EXTERNAL STOPEND

Code	A	Colour	Qty
REW2	44	W B G BR	10

### NOTCH ADAPTOR

Code	A	B	Colour	Qty
RGNA1	16	18	B	20

To adapt fitting for notch jointing

## Circular downpipe 110mm system

### PIPE

Size	Code	Colour
3m	SP403	W B G BR

Push-fit socket

### LOOSE PIPE SOCKET

Code	A	B	C	Colour	Qty
SE400	109	61	48	W B G BR	8

Push-fit socket/solvent socket

### CLIPS

The image shows a 3D perspective view of a grey, U-shaped metal clip on the left. On the right is a technical line drawing of the same clip, showing its profile and dimensions. Dimension lines indicate 'A' for the overall width and 'B' for the height of the clip's flange.

Socket clip PVC coated mild steel includes 6 x 20 mm nut and bolt				
Code	A	B	Colour	Qty
SC41	152	101	B G	50

### Barrel clip collar Cut to length for use with SC41

Length	Code	Qty
1m	SC621	25

Flexible PVC

### One piece

Code	A	B	Colour	Qty
SC45	150	101	W B G BR	50

### Pipe clip For use with Backplate RCB300 or drive-in spike RSS1

Code	Colour	Qty
RPC1	B G BR	50


PVC coated mild steel, includes 6 x 20 mm nut and bolt

### BENDS

Angle	Code	A	B	C	Colour	Qty
87½°	SB41	135	174	80	W B G BR	4

Push-fit socket/spigot

### Short radius



Angle	Code	A	B	Colour	Qty
45°	SB45	145	125 80	W B G BR	4

### Adjustable

Code	A	B	C	Colour	Qty
SB47	210	205	82	B G	4

Adjustable, 21-90°  
Push-fit socket/spigot



# Product specifications

## Circular downpipe 110mm system

### OFFSET BEND

Angle	Code	A	B	C	Colour	Qty
67½°	<b>SNE405</b>	100	73	60	W B G BR	4
Push-fit socket/solvent socket						

### BRANCH

Angle	Code	A	B	C	D	Colour	Qty
87½°	<b>SY401</b>	300	150	60	175	W B G BR	4
Push-fit socket/spigot							

### ACCESS PIPES

Code	A	B	Colour	Qty
<b>SF41</b>	244	123	B G	4
Push-fit socket/spigot				



### SHOE

Size mm	Code	A	B	Colour
	<b>SS41</b>	116	80	B G BR
Push-fit socket				

## Ancillary items

### RAIN DIVERTER

Code	A	B	Colour	Qty
<b>RD25R</b>	105	500	W B G BR	20
Suitable for use with 68mm circular or 65mm square PVCu downpipes				

### WATER BUTT CONNECTOR

Code	A	Colour	Qty
<b>RDC26R</b>	500	B	10

### FASCIA BRACKET SPACER/HEIGHT ADJUSTER

Code	A	B	C	D	Colour	Qty
<b>RG51</b>	94	48	17	17	W B	45
Includes nut and bolt. Suitable for use with Deepflow, Clip-master, Flowline and Classic fascia brackets. 25mm height adjustment						

## Ancillary items



### ANGLED FASCIA BRACKET ADAPTOR

Angle	Code	Qty
22½°	<b>RKA1</b>	50
30°	<b>RKA2</b>	100
Galvanised mild steel		

### EXTENSION BACKPLATE

Code	A	B	Colour	Qty
<b>RT200</b>	104	45	W B G BR SD	50
PVCu For use with RC251/2, RCE2 and RC32 pipe clips				

### FIXED RAFTER ARMS

Side					
Angle	Code	A	B	C	Qty
22½°	<b>RSA1</b>	50	75	25	50
Top					
Angle	Code	A	B	C	Qty
22½°	<b>RTA1</b>	100	75	25	50
Electroplated mild steel					
Includes 2 cadmium plated nuts and bolts					

### ADJUSTABLE RAFTER ARMS

The image displays two photographs and two technical drawings of a metal bracket. The photographs show the physical part, which is a galvanized steel bracket with a hook end. The technical drawings show the bracket from the side and top views, with dimensions labeled: C (hook length), B (hook width), and A (main body length).

## Side

Code	A	B	C
<b>RSA1A</b>	123	75	25

## Top

Code	A	B	C
<b>RTA1A</b>	65	75	25

Galvanised steel  
Including nut, bolt and antislip washer.

### SPARE NUTS AND BOLTS

Size mm	Code	Qty
12x5	<b>RNB21</b>	10

### RISE AND FALL EXTENSION ARM

Code	A	B	C	Qty
<b>RKF1</b>	290	100	235	50
Electroplated mild steel Including 2 cadmium plated nuts and bolts				

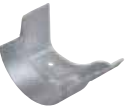
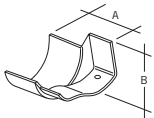

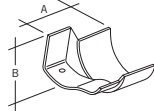
### DRIVE-IN SPIKE

Size mm	Code	A	B	C	Qty
	<b>RS1°</b>	115	58	154	50
Galvanised mild steel					


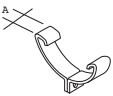
# Product specifications

## Ancillary items

### CLIP-MASTER TO OGEE GUTTER ADAPTORS

			<b>Right hand</b>	
	<b>Code</b>	<b>A</b>	<b>B</b>	<b>Qty</b>
	<b>RG44</b>	94	66	50
			<b>Left hand</b>	
	<b>Code</b>	<b>A</b>	<b>B</b>	<b>Qty</b>
	<b>RG45</b>	94	66	50
Cast aluminium				


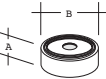



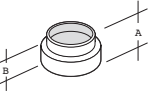
### HALF ROUND TO CAST IRON GUTTER ADAPTOR

				
	<b>Code</b>	<b>A</b>	<b>Colour</b>	<b>Qty</b>
	<b>RG41R</b>	29	B	25
Suitable for adapting 100mm to 112mm half round Other gutter adaptors are available to order				



### UNIVERSAL GUTTER NOTCHING TOOL

				
	<b>Code</b>			<b>Qty</b>
	<b>RGN1</b>			
Suitable for use with Deepflow, Clip-master, Flowline, Industrial and Deepflow150 gutter systems				


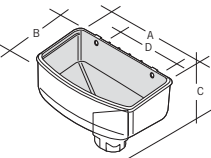

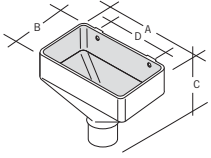

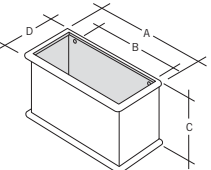

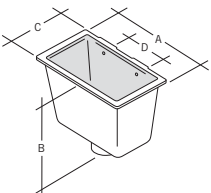


### DRAIN ADAPTORS

				
	<b>Code</b>	<b>A</b>	<b>B</b>	<b>Colour</b>
	<b>RA42</b>	31	104	B
Can be cut to fit all shapes and sizes of downpipe				
				
	<b>Code</b>	<b>A</b>	<b>B</b>	<b>Colour</b>
	<b>RRM425</b>	40	25	W B G BR
110mm socket to 68mm socket				
				
	<b>Code</b>	<b>A</b>	<b>B</b>	<b>Colour</b>
	<b>SRM325</b>	35	20	B G
82mm socket to 68mm socket				

### GUTTER SEAL

				
	<b>Code</b>			<b>Qty</b>
	<b>RNG50</b>			
Suitable for use with Deepflow, Clip-master, Flowline, Industrial and Deepflow150 gutter systems. Cut to required length				

## Hopper heads

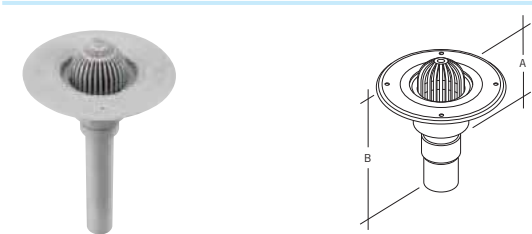
				
	<b>Size mm</b>	<b>Code</b>	<b>A</b>	<b>B</b>
	68/65	<b>RH252</b>	308	174
Dual spigot outlet				
				
	<b>Size mm</b>	<b>Code</b>	<b>A</b>	<b>B</b>
	82	<b>SH30</b>	280	155
Circular spigot outlet				
				
	<b>Size mm</b>	<b>Code</b>	<b>A</b>	<b>B</b>
	68	<b>RH25</b>	425	298
				
	<b>Size mm</b>	<b>Code</b>	<b>A</b>	<b>B</b>
	110	<b>SH40</b>	425	298
Circular spigot outlet				
				
	<b>Size mm</b>	<b>Code</b>	<b>A</b>	<b>B</b>
	160	<b>SH60°</b>	406	375
Circular spigot outlet				



# Product specifications

## PVCu Flat roof outlets

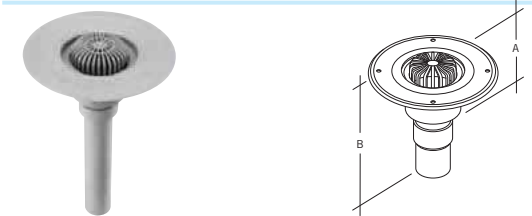
### FLAT ROOF OUTLET



Size mm	Code	A	B	Colour	Qty
68	<b>ROF25</b>	343	506	G	3

Items are supplied bagged loose for site assembly

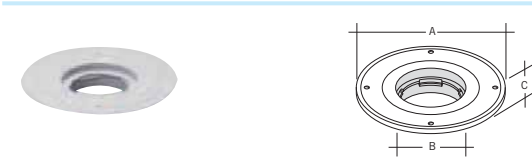
### BALCONY OUTLET



Size mm	Code	A	B	Colour	Qty
68	<b>ROB25</b>	343	506	G	3

Items are supplied bagged loose for site assembly

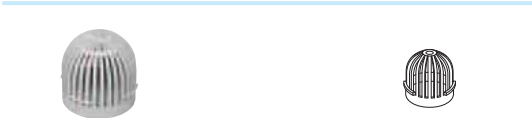
### UNIVERSAL FLANGE



Code	A	B	C	Colour	Qty
<b>SOF1</b>	343	180	55	G	5

Flange is 3mm thick

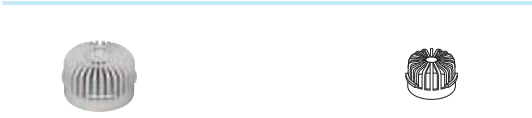
### FLAT ROOF OUTLET GRATING



Code	Colour	Qty
<b>SOF12</b>	G	25

For use with SOF1

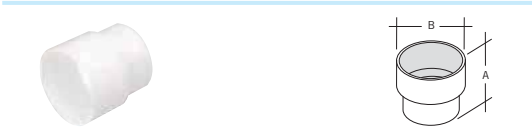
### BALCONY OUTLET GRATING



Code	Colour	Qty
<b>SOB1</b>	G	35

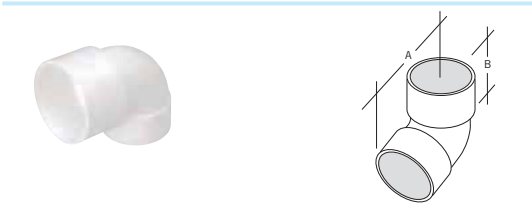
For use with SOF1

### STRAIGHT FLANGE CONNECTOR



Size mm	Code	A	B	Colour	Qty
82	<b>SGS31G</b>	133	137	G	♥ 20
110	<b>SGS41W</b>	139	134	W	♥ 20

### BENT FLANGE CONNECTOR



Size mm	Code	A	B	Colour	Qty
110	<b>STS41W</b>	104	156	W	♥ 45

Socket/socket





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