

April 2010

Tuscan
FOUNDRY PRODUCTS LTD

‘CAST IRON PRODUCTS’

TRADITIONAL CAST IRON RAINWATER,
GUTTERS AND ANCILLARY ITEMS



Purchasing Information

VAT should be added at the current rate.
A carriage charge will be applicable on all orders (please ask for details).

For further information on the products listed or on any special projects, please contact our Sales Office on 0800 174093.

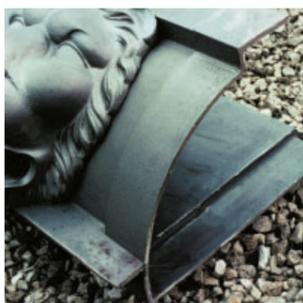
Price list subject to our standard Terms & Conditions, details available on request.

Liability

Every effort has been taken to ensure that the information contained in this publication is accurate, however Tuscan Foundry does not accept responsibility for any errors within. Due to continuous product development and improvement, descriptions and illustrations may be subject to revision without prior notice.



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www.tuscanfoundry.co.uk



Address & Contact Details:

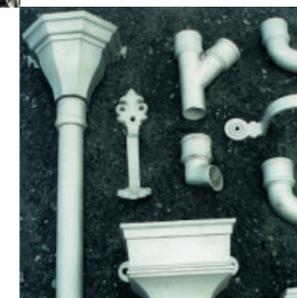
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Tuscan Foundry is pleased to present our extensive range of Traditional Cast Iron Rainwater Pipes, Gutters and Fittings in this catalogue.

Over the years we have built up a complete range of standard products and we can also provide special or non standard goods as required. We can therefore meet the needs of any new build, replacement, restoration or conservation work as required.

Cast Iron is particularly well suited and a popular choice for all drainage systems. It has infinite design possibilities, nothing looks better and no other product offers its strength, durability and longevity with such low maintenance. Above all it combines a lasting beauty that will enhance its environment with supreme functionality.

We hope you will find this catalogue informative and helpful and are encouraged to discuss your needs with us.



Product Section Contents

Round Rainwater Pipes & Fittings	10 – 11
Common Gutters & Fittings	12 – 18
Standard Rainwater Heads	19
Square Pipes & Fittings	20 – 21
Rectangular Pipes & Fittings	22 – 23
Ornamental Rainwater Heads	24 – 30
Large Sand-Cast Gutters & Fittings	31 – 34
Soil Pipes and Fittings	35 – 38
Air Bricks & Skylight Windows	39
Ancillaries & Special Items for Cast Iron	40 – 41
Miscellaneous Castings	42

Cast Iron offers many benefits which include:

- great strength and durability
- long life
- low maintenance
- cost effective
- low noise operation
- fire resistance

It is also able to withstand the rigours of on site handling, mechanical de-blocking and vandalism. It provides design capabilities that will meet the needs of restoration, refurbishment and conservation work equally as well as new, bespoke and unique designs. Cast iron is 100% recyclable and can be returned to the foundry for re-use. The combination of these benefits and features is a matchless product that delivers lifetime solutions to drainage needs. The benefits of specifying Tuscan Foundry products are the ease of availability throughout the UK and Ireland, excellent service and a wealth of experience that can be called upon for advice and information about your particular needs.

Tuscan Foundry Products provide building solutions in cast iron that add character and durability to homes of distinction.

All our traditional cast iron rainwater and soil products are manufactured in grey iron and conform to BS460 for rainwater goods and BS416 for soil goods.

The same experience and skills extend to our own pattern shop where in addition to standard products we can also meet exceptional needs for new or bespoke designs and to conserve or replace original pieces.

All our rainwater and soil goods are available throughout the UK and Ireland.

For further information contact our sales office on:

Telephone: 0800 174093

Facsimile: 0845 345 0215

Email: info@tuscanfoundry.co.uk

Website: www.tuscanfoundry.co.uk

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Rainwater

Tuscan Foundry can provide a wide range of stock and commonly used items with all fittings and accessories. Additionally, items can be made to order to meet the specific needs of your project.

The standards for rainwater have remained remarkably constant for many years which means that replacing or integrating new with old is easy. The physical properties of cast iron are sustained throughout its lifetime thus maintaining its effectiveness. Coupled with its durability and proper maintenance, we would expect our products to last for over 100 years under normal conditions.

Where it is not possible to match existing cast iron designs for individual buildings from stock, Tuscan, in association with its pattern makers, can offer a bespoke service.

For Rainwater Product details see pages 10 to 34.



The Premier Extra Range

As an alternative we are pleased to offer the 'Premier Extra' finish which has been developed to satisfy the needs of specifiers and clients requiring a "ready to fix product" with no painting required on site. The 'Premier Extra' range has an attractive black semi-gloss finish and is available in all 7 standard gutter profiles and round rainwater pipes.

Note: also available to special order in a comprehensive range of RAL & BS colours – details on request.



Key Features

- Life expectancy of coating 15 years plus; therefore reduced maintenance
- Reduces time on site – no need to undercoat and topcoat before installation
- Factory applied coating in a clean environment
- Gutters, Pipes & Fittings supplied wrapped in polythene for protection
- Lower cost than powder coated cast aluminium products

Painting Methods for Premier Rainwater

It is important when painting cast iron to ensure that all surfaces are completely covered.

Premier Rainwater products are supplied in a grey metal primer with rust inhibitors.

Before fixing on site, the products should be inspected for damage to the finish and, where necessary, wire brushed and spot primed with an appropriate metal primer. This should be followed by two undercoats and one top coat (or one undercoat and two top coats) of a good quality exterior paint.

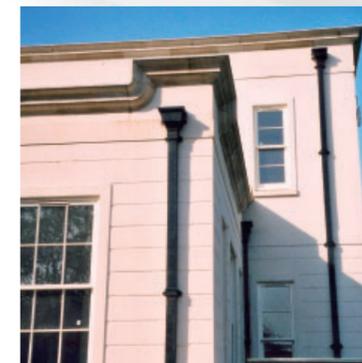
For coastal areas please consult your local stockist or paint manufacturer for their recommendations.

After installation ensure that any damage to the coating, jointing nuts, bolts and fixing screws is made good with the appropriate paint.

Note: We strongly recommend all products are painted prior to installation to ensure adequate coating on all surfaces. This will reduce long term maintenance.

Painting Methods for Premier Extra Rainwater

Our in house paint coating is formulated to have a life expectancy of 10 years when subject to normal weather conditions and rectification of any impact damage or surface scuffing during and after installation. Atmospheric pollution and/or the presence of dissolved salts in the rainwater put greater demands on the paint coatings and can adversely affect the life expectancy.



During installation and assembly of the product and handling, scuffing or impact damage to the coating must be made good to maintain the integrity of the finished paint coating. Likewise, any cutting or drilling operations must be protected with paint

immediately to prevent the onset of the rusting process. This touch up reworking also applies to any bolts, nuts and screws used during assembly.

Painting Methods for Premier Soil

It is important when painting cast iron to ensure that all surfaces are completely covered.

Conventional soil pipes are coated with a black bitumous based finish to conform to BS416.

If over painting, please refer to your paint specialist or manufacturer for a suitable system.



Paint Touch Up Procedure for Premier Extra Rainwater

This process will ensure the protection of the cast iron product against rusting from the reworked areas subject to regular annual checks and routine maintenance of the exterior surfaces.

Surface Preparation

Surface Scuffing or Impact Damage. The affected area should be rubbed with emery or sand paper to remove any loose paint or debris and provide a key for touch up. Any rusting from exposed metal should be fully sanded back to bare metal. This process should be carried out as soon as possible after preparation of the surface.

Cutting and Drilling. Remove any burrs or sharp edges and ensure that any oil contamination, loose dust or metal debris is fully removed on completion of these operations. Paint touch up should be carried out as soon as possible after preparation of the surface.

If the bare metal faces have been left untreated then any rusting of the exposed metal should be fully sanded back to bare metal before paint touch up.

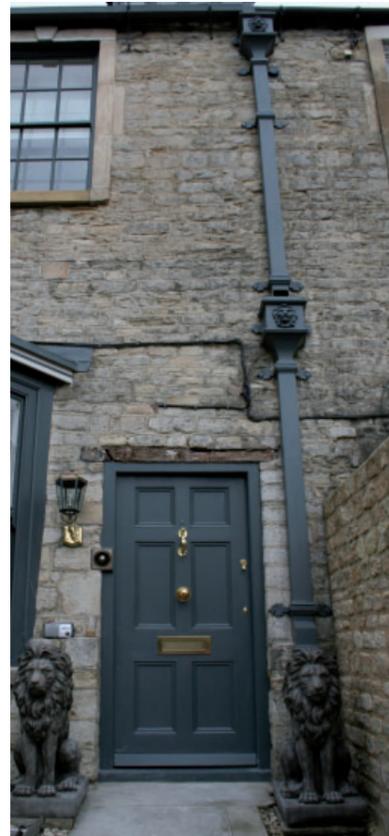
Painting Process

This process should be carried out in dry conditions with the surface to be treated clean and dry.

Use Tuscan Foundry semi gloss touch up paint in the appropriate colour and apply an initial coat of paint to the bare metal surface ensuring all exposed metal is covered.

Excessive brushing out of the paint should be avoided since this will reduce paint layer thickness and necessitate three or four layers of touch up paint to be required.

When the initial or previous coat is touch dry apply the second or additional coats of paint to the reworked area ensuring any adjacent areas of paint which have been rubbed during the sanding operations are also painted. It is important that a minimum of two thick layers of paint are applied to provide the desired paint thickness for product protection.



Cold Jointing Method for Premier Soil Pipes

As an alternative method of jointing, without the use of a naked flame as in the traditional lead caulking method, we can provide the following cold jointing products:

- Caulking Cord
- CT1 black sealant

Step 1.

Centrally align the pipe spigot within the socket and wet the cord.

Step 2.

Caulk this into the socket up to 30mm from the top. This will centralise the pipes and provide a backing for the top 30mm of the joint.

Step 3.

Fill the top 30mm with CT1 black sealant, apply using a skeleton gun.

Step 4.

When filled, smooth off level with the top of the socket, to provide a sealed joint and neat appearance. No further painting will be required if the pipes are black.

CT1 can be over painted if the pipes are a different colour.

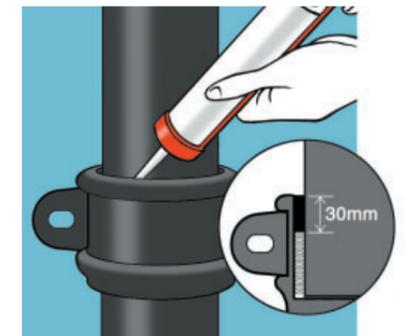
Note: Each joint of a 4" pipe will require approximately 4 metres of caulking cord and a quarter of a tube of CT1. Estimate usage on smaller or larger diameters pro-rata to pipe diameter.



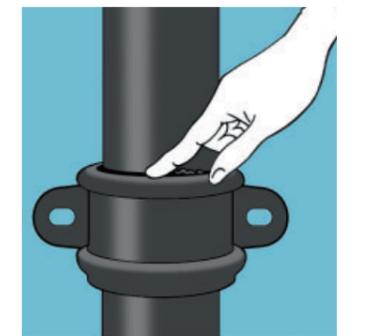
Step 1



Step 2



Step 3



Step 4

Fixing Methods for Premier Soil Pipes

A typical fixing for eared soil pipes is 100mm large head pipe nail, coach screws or other propriety fixing.

Fixing of uneared soil pipe is by a drive in spike.

Alternatively holderbats or earbands may be used for a more decorative effect. All fixings are available from stock.

Joining Methods for Premier Rainwater Pipes

Vertical rainwater pipes would not normally be sealed. Only seal joints between gutter outlet and rainwater pipe or offset plus any joints in a horizontal position such as a 90° branch arm or bend.

It is recommended that three small wedges made from timber or sheet lead off-cuts are used to centralise the pipe joints and prevent any wind rattle.

Fixing Methods for Premier Rainwater Pipes

The traditional fixing for eared cast iron rainwater pipes is by using large headed pipe nails which we have available in 75mm and 100mm lengths. These are secured in wooden plugs fitted in the brickwork/masonry background. Alternatively non corrosive coach screws or other proprietary fixings may be used.

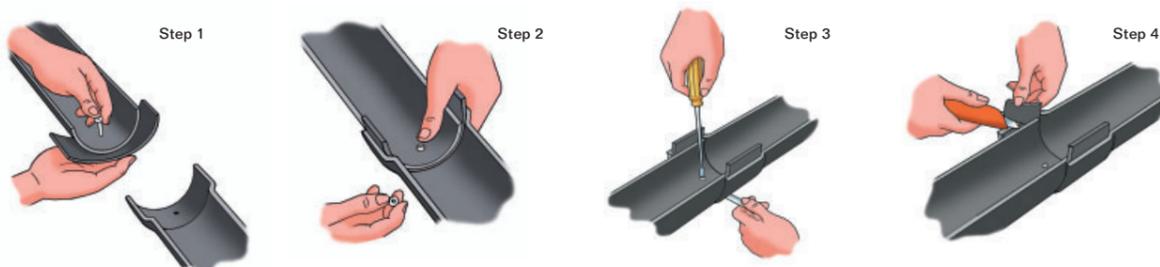
When fixing on an uneven or unstable surface the recommended method is to secure fixings by means of epoxy resin in pre-drilled holes.

Fixing of unearred pipes can be by holdfast, build in holderbat, earband or screw to wall bracket. These fixings are all available from stock.



Joining with Gutter Jointing Kit

Suitable for use on Plain Half Round and Beaded Half Round gutter profiles, this kit is an efficient alternative to traditional jointing methods. The kit contains 10 EPDM rubber seals plus M6 x 25mm bolts, nuts and washers, suitable for 100mm, 115mm, 125mm, and 150mm gutter sizes.



Step 1.
Take the EPDM gasket and push the bolt from the inside of the gutter spigot and then through the gasket.

Step 2.
Line up the gutter and gasket with the socket of the next gutter/fitting and push the bolt through ready to accept the washer and nut.

Step 3.
Check the gasket is square and even between the two gutters and then tighten the nut and washer. Be careful not to over tighten as this may affect the joint or damage the gutter.

Step 4.
Finally use a craft knife to trim off any excess gasket rubber.

Note: When carrying out jointing or installation work on cast iron gutters, always check for any slight damage including paint chips and cut ends and if necessary use the appropriate touch up paint to ensure a complete covering.

Joining Methods for Premier Gutters

The most popular way of jointing cast iron gutters is by using a low modulus silicone sealant or specialist rubberised bitumen gutter mastic.

The sealant should be spread evenly within the gutter socket applying additional sealant around the jointing hole before placing the gutter spigot into the socket and compressing both parts using M6 x 25mm corrosion resistant mushroom head bolts, ensuring the bolt head is on the inside of the gutter.

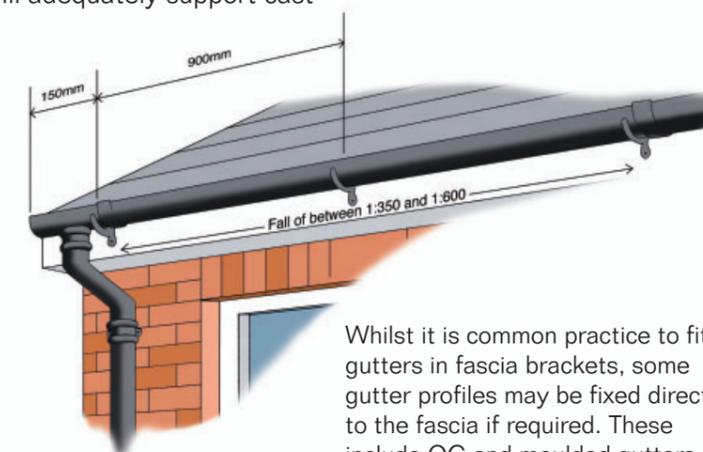
The washer and nut should be lightly tightened from the underside of the gutter to allow excess sealant to be removed. Do not over tighten as this could result in gutter damage.

Note: If gutters have been cut, remove any loose filings immediately to ensure no discolouration/ rust marks on the paint surface. Also check that cut ends, bolts, nuts and any slight installation damage is made good with the appropriate primer and paint.

Fixing Method for Premier Gutters

Before commencing the installation, inspect all fascia boards to ensure they are in good condition and will adequately support cast iron gutters.

1. Determine the direction for fitting the gutters beginning with socketed end of the gutter e.g. Notts OG gutters fit left to right and G46 gutters fit right to left
2. Position the first bracket 150mm from the end of the run
3. Fix subsequent brackets at 900mm maximum centres using a string line for alignment of brackets and ensuring a slight fall towards outlet positions.
4. Gutters may be cut with a powered disc cutter or tipped hacksaw.
5. When cutting gutters, ensure there are no loose filings left on the surface as these will cause discolouration of the paint finish.
6. All cut ends, bolt heads and damaged paint areas should be retouched immediately.

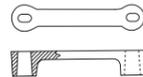
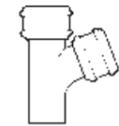
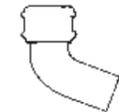
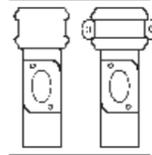
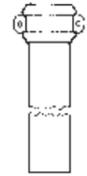


Whilst it is common practice to fit gutters in fascia brackets, some gutter profiles may be fixed direct to the fascia if required. These include OG and moulded gutters which have three pre-drilled holes per 1.8m (6') length along the top back edge.



Where building designs incorporate no fascia board, other types of bracket will be required, the most popular being side fixing rafter, top fixing rafter and rise and fall brackets with build in spikes. These are all readily available in galvanised/zinc plated steel and other designs are obtainable to suit your specific requirements.

round rainwater pipes & fittings



Rainwater Pipe without Ears								
Description	Premier (Primed)				Premier Extra (Black)			
	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")
1829mm (6') Single Socket Plain	R2501 £70.77	R3001 £70.77	R4001 £96.55	R6001 £191.34	XR2501 £88.47	XR3001 £88.47	XR4001 £115.84	XR6001 £229.59
1219mm (4') Single Socket Plain	R2504 £62.20	R3004 £62.20	R4004 £79.25	R6004 £173.58	XR2504 £77.72	XR3004 £77.72	XR4004 £95.13	XR6004 £208.14
914mm (3') Single Socket Plain	R2503 £55.61	R3003 £55.61	R4003 £70.22	R6003 £158.31	XR2503 £69.50	XR3003 £69.50	XR4003 £84.28	XR6003 £189.97
610mm (2') Single Socket Plain	R2502 £55.61	R3002 £55.61	R4002 £70.22	R6002 £158.31	XR2502 £69.50	XR3002 £69.50	XR4002 £84.28	XR6002 £189.97
1829mm (6') Double Socket Plain	R2501D £91.94	R3001D £91.94	R4001D £125.50	R6001D £229.59	XR2501D £114.92	XR3001D £114.92	XR4001D £150.63	XR6001D £275.55

Rainwater Pipe Eared								
Description	Premier (Primed)				Premier Extra (Black)			
	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")
1829mm (6') Single Socket Eared	R2501E £75.55	R3001E £75.55	R4001E £101.42	R6001E £196.23	XR2501E £94.44	XR3001E £94.44	XR4001E £121.72	XR6001E £233.45
1219mm (4') Single Socket Eared	R2504E £67.73	R3004E £67.73	R4004E £84.59	R6004E £178.97	XR2504E £84.69	XR3004E £84.69	XR4004E £101.53	XR6004E £225.48
914mm (3') Single Socket Eared	R2503E £61.70	R3003E £61.70	R4003E £76.50	R6003E £176.20	XR2503E £77.13	XR3003E £77.13	XR4003E £91.81	XR6003E £202.94
610mm (2') Single Socket Eared	R2502E £61.70	R3002E £61.70	R4002E £76.50	R6002E £176.20	XR2502E £77.13	XR3002E £77.13	XR4002E £91.81	XR6002E £202.94
1829mm (6') Double Socket Eared	R2501DE £98.27	R3001DE £98.27	R4001DE £131.91	R6001DE £235.45	XR2501DE £122.81	XR3001DE £122.81	XR4001DE £158.30	XR6001DE £282.53

Rainwater Access Pipe								
Description	Premier (Primed)				Premier Extra (Black)			
	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")
Oval Door Plain	R2510 £59.17	R3010 £59.17	R4010 £115.52	R6010 £293.64	XR2510 £65.08	XR3010 £65.08	XR4010 £122.45	XR6010 £314.75
Oval Door Eared	R2510E £81.44	R3010E £81.44	R4010E £124.91	R6010E £318.28	XR2510E £89.58	XR3010E £89.58	XR4010E £137.36	XR6010E £364.64

Rainwater Bend								
Description	Premier (Primed)				Premier Extra (Black)			
	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")
92.5 deg.	R2520 £22.36	R3020 £27.76	R4020 £38.42	R6020 £185.98	XR2520 £24.59	XR3020 £29.86	XR4020 £42.25	XR6020 £204.56
112.5 deg.	R2521 £22.36	R3021 £27.76	R4021 £38.42	R6021 £185.98	XR2521 £24.59	XR3021 £29.86	XR4021 £42.25	XR6021 £204.56
135 deg.	R2522 £22.36	R3022 £27.76	R4022 £38.42	R6022 £185.98	XR2522 £24.59	XR3022 £29.86	XR4022 £42.25	XR6022 £204.56

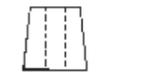
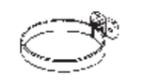
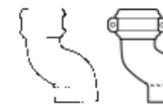
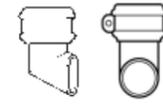
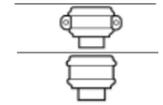
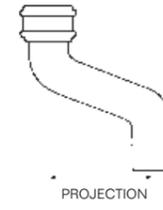
Rainwater Branch								
Description	Premier (Primed)				Premier Extra (Black)			
	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")
92.5 deg.	R2530 £43.14	R3030 £47.52	R4030 £56.42	R6030 £192.47	XR2530 £47.45	XR3030 £52.28	XR4030 £62.08	XR6030 £211.69
112.5 deg.	R2531 £43.14	R3031 £47.52	R4031 £56.42	R6031 £192.47	XR2531 £47.45	XR3031 £52.28	XR4031 £62.08	XR6031 £211.69
135 deg.	R2532 £43.14	R3032 £47.52	R4032 £56.42	R6032 £192.47	XR2532 £47.45	XR3032 £52.28	XR4032 £62.08	XR6032 £211.69

Rainwater Spacer Plates								
Description	Premier (Primed)				Premier Extra (Black)			
	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")
	R2570 £9.19	R3070 £9.38	R4070 £9.53	R6070 £18.84	XR2570 £11.50	XR3070 £11.72	XR4070 £11.92	XR6070 £23.56

Wire Balloon				
Description	Galvanised			
	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")
	WBALL 2.5 £9.00	WBALL 3 £9.00	WBALL 4 £9.00	

Other colours available on request POA

round rainwater pipes & fittings



Rainwater Offset								
Description	Premier (Primed)				Premier Extra (Black)			
	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")
75mm (3") projection	R2540 £34.19	R3040 £34.19	R4040 £64.52	R6040 £202.98	XR2540 £37.61	XR3040 £37.61	XR4040 £71.00	XR6040 £223.30
115mm (4.5") projection	R2541 £34.19	R3041 £34.19	R4041 £64.52	R6041 £202.98	XR2541 £37.61	XR3041 £37.61	XR4041 £71.00	XR6041 £223.30
150mm (6") projection	R2542 £34.19	R3042 £34.19	R4042 £64.52	R6042 £202.98	XR2542 £37.61	XR3042 £37.61	XR4042 £71.00	XR6042 £223.30
230mm (9") projection	R2543 £39.77	R3043 £39.77	R4043 £78.14	R6043 £230.63	XR2543 £43.73	XR3043 £43.73	XR4043 £85.95	XR6043 £253.69
305mm (12") projection	R2544 £46.63	R3044 £46.63	R4044 £98.01	R6044 £263.38	XR2544 £51.31	XR3044 £51.31	XR4044 £111.45	XR6044 £294.41
380mm (15") projection	R2545 £92.98	R3045 £92.98	R4045 £126.98	R6045 £363.84	XR2545 £102.39	XR3045 £102.39	XR4045 £139.67	XR6045 £400.25
457mm (18") projection	R2546 £108.91	R3046 £108.91	R4046 £154.31	R6046 £447.41	XR2546 £119.83	XR3046 £119.83	XR4046 £169.75	XR6046 £492.16
533mm (21") projection	R2547 £159.30	R3047 £159.30	R4047 £240.36	R6047 £456.97	XR2547 £184.42	XR3047 £184.42	XR4047 £278.27	XR6047 £529.07
610mm (24") projection	R2548 £159.30	R3048 £159.30	R4048 £240.36	R6048 £456.97	XR2548 £184.42	XR3048 £184.42	XR4048 £278.27	XR6048 £529.07

Rainwater Loose Socket								
Description	Premier (Primed)				Premier Extra (Black)			
	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")
With Spigot Eared	R2550SE £14.88	R3050SE £14.88	R4050SE £20.34	R6050SE £82.33	XR2550SE £18.61	XR3050SE £18.61	XR4050SE £25.42	XR6050SE £90.55
With Spigot Plain	R2550S £13.36	R3050S £13.36	R4050S £19.58	R6050S £77.14	XR2550S £15.36	XR3050S £15.36	XR4050S £22.84	XR6050S £84.81

Rainwater Shoe								
Description	Premier (Primed)				Premier Extra (Black)			
	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")
Eared	R2551E £36.52	R3051E £35.52	R4051E £47.52	R6051E £82.33	XR2551E £40.16	XR3051E £40.16	XR4051E £52.28	XR6051E £181.30
Plain	R2551 £32.13	R3051 £32.13	R4051 £42.63	R6051 £77.14	XR2551 £34.84	XR3051 £34.84	XR4051 £46.91	XR6051 £176.06

Rainwater Anti-Splash Shoe								
Description	Premier (Primed)				Premier Extra (Black)			
	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")
Eared	R2552E £67.38	R3052E £67.38	R4052E £91.25	R6052E £288.39	XR2552E £74.14	XR3052E £74.14	XR4052E £100.41	XR6052E £336.30
Plain	R2552 £61.09	R3052 £61.09	R4052 £85.40	R6052 £285.98	XR2552 £67.20	XR3052 £67.20	XR4052 £93.88	XR6052 £334.00

Rainwater Holdfast								
Description	Premier (Primed)				Premier Extra (Black)			
	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")
Holdfast	R2555 £5.42	R3055 £5.42	R4055 £6.13	R6055 £9.19	XR2555 £5.97	XR3055 £5.97	XR4055 £6.70	XR6055 £10.11

Rainwater Pipe Bracket								
Description	Premier (Primed)				Premier Extra (Black)			
	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")
Screw to Wall Steel	R2561 £13.08	R3061 £13.20	R4061 £13.53	R6061 £17.25	XR2561 £14.41	XR3061 £14.52	XR4061 £14.86	XR6061 £18.97

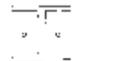
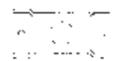
Wooden Bobbin				
Description	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")
	30mm	WBOB £1.38	WBOB £1.38	WBOB £1.38

Rainwater Pipe Nail				
Description	65mm (2.5")	75mm (3")	100mm (4")	150mm (6")
	Pipe Nails 75mm & 100mm		PN3 £0.53	PN4 £0.61

Extra for ears fitted to an unspecified item £16.05

Other colours available on request POA

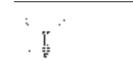
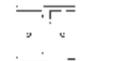
plain half round gutters & fittings



Plain Half Round Gutter								
Description	Premier (Primed)				Premier Extra (Black)			
	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")
1829mm (6") Gutter	HR4001 £38.50	HR4501 £40.08	HR5001 £46.84	HR6001 £79.86	XHR4001 £53.92	XHR4501 £56.09	XHR5001 £65.55	XHR6001 £99.86
Angle								
Description	Premier (Primed)				Premier Extra (Black)			
	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")
Square Angle (90°) Left Hand	HR4010 £15.98	HR4510 £16.53	HR5010 £19.91	HR6010 £35.56	XHR4010 £20.00	XHR4510 £20.66	XHR5010 £24.89	XHR6010 £44.44
Square Angle (90°) Right Hand	HR4011 £15.98	HR4511 £16.53	HR5011 £19.91	HR6011 £35.56	XHR4011 £20.00	XHR4511 £20.66	XHR5011 £24.89	XHR6011 £44.44
Obtuse Angle (135°) Left Hand	HR4012 £15.98	HR4512 £16.53	HR5012 £19.91	HR6012 £35.56	XHR4012 £20.00	XHR4512 £20.66	XHR5012 £24.89	XHR6012 £44.44
Obtuse Angle (135°) Right Hand	HR4013 £15.98	HR4513 £16.53	HR5013 £19.91	HR6013 £35.56	XHR4013 £20.00	XHR4513 £20.66	XHR5013 £24.89	XHR6013 £44.44
Outlet								
Description	Premier (Primed)				Premier Extra (Black)			
	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")
A = 65mm B = 75mm C = 100mm								
Nozzle/Centre Drop	HR4020A £15.98	HR4520A £17.03	HR5020A £19.91	HR6020B £33.67	XHR4020A £20.00	XHR4520A £21.30	XHR5020A £24.89	XHR6020B £42.10
	HR4020B £15.98	HR4520B £17.03	HR5020B £19.91	HR6020C £33.67	XHR4020B £20.00	XHR4520B £21.30	XHR5020B £24.89	XHR6020C £42.10
Dropend External	HR4021A £15.98	HR4521A £17.03	HR5021A £19.91	HR6021B £33.67	XHR4021A £20.00	XHR4521A £21.30	XHR5021A £24.89	XHR6021B £42.10
	HR4021B £15.98	HR4521B £17.03	HR5021B £19.91	HR6021C £33.67	XHR4021B £20.00	XHR4521B £21.30	XHR5021B £24.89	XHR6021C £42.10
Dropend Internal	HR4022A £15.98	HR4522A £17.03	HR5022A £19.91	HR6022B £33.67	XHR4022A £20.00	XHR4522A £21.30	XHR5022A £24.89	XHR6022B £42.10
	HR4022B £15.98	HR4522B £17.03	HR5022B £19.91	HR6022C £33.67	XHR4022B £20.00	XHR4522B £21.30	XHR5022B £24.89	XHR6022C £42.10
Stopend								
Description	Premier (Primed)				Premier Extra (Black)			
	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")
Stopend External	HR4030 £5.41	HR4530 £7.02	HR5030 £7.02	HR6030 £9.31	XHR4030 £6.77	XHR4530 £8.78	XHR5030 £8.78	XHR6030 £11.63
Stopend Internal	HR4031 £5.41	HR4531 £7.02	HR5031 £7.02	HR6031 £9.31	XHR4031 £6.77	XHR4531 £8.78	XHR5031 £8.78	XHR6031 £11.63
Clip								
Description	Premier (Primed)				Premier Extra (Black)			
	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")
Union Clip	HR4035 £10.61	HR4535 £12.88	HR5035 £14.89	HR6035 £16.72	XHR4035 £13.27	XHR4535 £16.08	XHR5035 £18.59	XHR6035 £21.41
Bracket								
Description	Premier (Primed)				Premier Extra (Black)			
	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")
Fascia Bracket	HR4040 £4.47	HR4540 £4.47	HR5040 £4.83	HR6040 £5.52	XHR4040 £5.58	XHR4540 £5.58	XHR5040 £6.03	XHR6040 £6.88
Top Fixing Rafter Bracket Steel	HR4041 £3.99	HR4541 £4.01	HR5041 £4.03	HR6041 £4.15	XHR4041 £4.98	XHR4541 £5.31	XHR5041 £5.64	XHR6041 £6.50
Side Fixing Rafter Bracket Steel	HR4042 £4.25	HR4542 £4.27	HR5042 £4.29	HR6042 £4.41	XHR4042 £5.31	XHR4542 £5.64	XHR5042 £5.98	XHR6042 £6.75
Rise and Fall Bracket Steel	HR4043 £5.99	HR4543 £6.01	HR5043 £6.03	HR6043 £6.15	XHR4043 £7.99	XHR4543 £8.01	XHR5043 £8.64	XHR6043 £8.89
Gutter Jointing Kit								
Description					HR0006 £14.35			
10 Rubber Gaskets, Bolt, Nut & Washer Suitable for Half Round Only								

Other colours available on request POA

beaded half round gutters & fittings



Beaded Half Round Gutter								
Description	Premier (Primed)				Premier Extra (Black)			
	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")
1829mm (6") Gutter	HB4001 £38.50	HB4501 £40.08	HB5001 £46.84	HB6001 £96.28	XHB4001 £53.92	XHB4501 £56.09	XHB5001 £65.55	XHB6001 £120.77
Angle								
Description	Premier (Primed)				Premier Extra (Black)			
	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")
Square Angle (90°) Left Hand	HB4010 £15.98	HB4510 £16.53	HB5010 £19.91	HB6010 £43.20	XHB4010 £20.00	XHB4510 £20.66	XHB5010 £24.89	XHB6010 £53.98
Square Angle (90°) Right Hand	HB4011 £15.98	HB4511 £16.53	HB5011 £19.91	HB6011 £43.20	XHB4011 £20.00	XHB4511 £20.66	XHB5011 £24.89	XHB6011 £53.98
Obtuse Angle (135°) Left Hand	HB4012 £15.98	HB4512 £16.53	HB5012 £19.91	HB6012 £43.20	XHB4012 £20.00	XHB4512 £20.66	XHB5012 £24.89	XHB6012 £53.98
Obtuse Angle (135°) Right Hand	HB4013 £15.98	HB4513 £16.53	HB5013 £19.91	HB6013 £43.20	XHB4013 £20.00	XHB4513 £20.66	XHB5013 £24.89	XHB6013 £53.98
Outlet								
Description	Premier (Primed)				Premier Extra (Black)			
	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")
A = 65mm B = 75mm C = 100mm								
Nozzle/Centre Drop	HB4020A £15.98	HB4520A £17.03	HB5020A £19.91	HB6020B £43.20	XHB4020A £20.00	XHB4520A £21.30	XHB5020A £24.89	XHB6020B £53.98
	HB4020B £15.98	HB4520B £17.03	HB5020B £19.91	HB6020C £43.20	XHB4020B £20.00	XHB4520B £21.30	XHB5020B £24.89	XHB6020C £53.98
Dropend External	HB4021A £15.98	HB4521A £17.03	HB5021A £19.91	HB6021B £43.20	XHB4021A £20.00	XHB4521A £21.30	XHB5021A £24.89	XHB6021B £53.98
	HB4021B £15.98	HB4521B £17.03	HB5021B £19.91	HB6021C £43.20	XHB4021B £20.00	XHB4521B £21.30	XHB5021B £24.89	XHB6021C £53.98
Dropend Internal	HB4022A £15.98	HB4522A £17.03	HB5022A £19.91	HB6022B £43.20	XHB4022A £20.00	XHB4522A £21.30	XHB5022A £24.89	XHB6022B £53.98
	HB4022B £15.98	HB4522B £17.03	HB5022B £19.91	HB6022C £43.20	XHB4022B £20.00	XHB4522B £21.30	XHB5022B £24.89	XHB6022C £53.98
Stopend								
Description	Premier (Primed)				Premier Extra (Black)			
	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")
Stopend External	HB4030 £5.41	HB4530 £7.02	HB5030 £7.02	HB6030 £9.31	XHB4030 £6.77	XHB4530 £8.78	XHB5030 £8.78	XHB6030 £14.84
Stopend Internal	HB4031 £5.41	HB4531 £7.02	HB5031 £7.02	HB6031 £9.31	XHB4031 £6.77	XHB4531 £8.78	XHB5031 £8.78	XHB6031 £14.84
Clip								
Description	Premier (Primed)				Premier Extra (Black)			
	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")
Union Clip	HB4035 £10.61	HB4535 £12.88	HB5035 £14.89	HB6035 £21.25	XHB4035 £13.27	XHB4535 £16.08	XHB5035 £18.59	XHB6035 £26.58
Bracket								
Description	Premier (Primed)				Premier Extra (Black)			
	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")	100mm (4")	115mm (4.5")	125mm (5")	150mm (6")
Fascia Bracket	HB4040 £4.47	HB4540 £4.47	HB5040 £4.83	HB6040 £5.52	XHB4040 £5.58	XHB4540 £5.58	XHB5040 £6.03	XHB6040 £6.88
Top Fixing Rafter Bracket Steel	HB4041 £3.99	HB4541 £4.01	HB5041 £4.03	HB6041 £4.15	XHB4041 £4.98	XHB4541 £5.31	XHB5041 £5.64	XHB6041 £6.50
Side Fixing Rafter Bracket Steel	HB4042 £4.25	HB4542 £4.27	HB5042 £4.29	HB6042 £4.41	XHB4042 £5.31	XHB4542 £5.64	XHB5042 £5.98	XHB6042 £6.75
Rise and Fall Bracket Steel	HB4043 £5.99	HB4543 £6.01	HB5043 £6.03	HB6043 £6.15	XHB4043 £7.99	XHB4543 £8.01	XHB5043 £8.64	XHB6043 £8.89

Other colours available on request POA



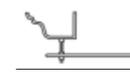
OG Gutter						
Description	Premier (Primed)			Premier Extra (Black)		
	100mm (4")	115mm (4.5")	125mm (5")	100mm (4")	115mm (4.5")	125mm (5")
1829mm (6') Gutter	OG4001 £42.84	OG4501 £47.17	OG5001 £49.45	XOG4001 £60.00	XOG4501 £66.03	XOG5001 £69.25
Angle						
Description	Premier (Primed)			Premier Extra (Black)		
	100mm (4")	115mm (4.5")	125mm (5")	100mm (4")	115mm (4.5")	125mm (5")
Square Angle (90°) External	OG4010 £16.70	OG4510 £18.14	OG5010 £19.81	XOG4010 £20.88	XOG4510 £22.69	XOG5010 £24.78
Square Angle (90°) Internal	OG4011 £16.70	OG4511 £18.14	OG5011 £19.81	XOG4011 £20.88	XOG4511 £22.69	XOG5011 £24.78
Obtuse Angle (135°) External	OG4012 £16.70	OG4512 £18.14	OG5012 £19.81	XOG4012 £20.88	XOG4512 £22.69	XOG5012 £24.78
Obtuse Angle (135°) Internal	OG4013 £16.70	OG4513 £18.14	OG5013 £19.81	XOG4013 £20.88	XOG4513 £22.69	XOG5013 £24.78
Outlet						
Description	Premier (Primed)			Premier Extra (Black)		
	100mm (4")	115mm (4.5")	125mm (5")	100mm (4")	115mm (4.5")	125mm (5")
A = 65mm B = 75mm C = 100mm						
Nozzle/Centre Drop	OG4020A £16.70	OG4520A £18.14	OG5020A £19.81	XOG4020A £20.88	XOG4520A £22.69	XOG5020A £24.78
	OG4020B £16.70	OG4520B £18.14	OG5020B £19.81	XOG4020B £20.88	XOG4520B £22.69	XOG5020B £24.78
Dropend External	OG4021A £16.70	OG4521A £18.14	OG5021A £19.81	XOG4021A £20.88	XOG4521A £22.69	XOG5021A £24.78
	OG4021B £16.70	OG4521B £18.14	OG5021B £19.81	XOG4021B £20.88	XOG4521B £22.69	XOG5021B £24.78
Dropend Internal	OG4022A £16.70	OG4522A £18.14	OG5022A £19.81	XOG4022A £20.88	XOG4522A £22.69	XOG5022A £24.78
	OG4022B £16.70	OG4522B £18.14	OG5022B £19.81	XOG4022B £20.88	XOG4522B £22.69	XOG5022B £24.78
Stopend						
Description	Premier (Primed)			Premier Extra (Black)		
	100mm (4")	115mm (4.5")	125mm (5")	100mm (4")	115mm (4.5")	125mm (5")
Stopend External (Right Hand)	OG4030 £4.88	OG4530 £6.52	OG5030 £6.52	XOG4030 £6.08	XOG4530 £8.17	XOG5030 £8.17
Stopend Internal (Left Hand)	OG4031 £4.88	OG4531 £6.52	OG5031 £6.52	XOG4031 £6.08	XOG4531 £8.17	XOG5031 £8.17
Clip						
Description	Premier (Primed)			Premier Extra (Black)		
	100mm (4")	115mm (4.5")	125mm (5")	100mm (4")	115mm (4.5")	125mm (5")
Union Clip	OG4035 £10.31	OG4535 £10.61	OG5035 £13.30	XOG4035 £12.89	XOG4535 £13.27	XOG5035 £16.63
Bracket						
Description	Premier (Primed)			Premier Extra (Black)		
	100mm (4")	115mm (4.5")	125mm (5")	100mm (4")	115mm (4.5")	125mm (5")
Fascia Bracket	OG4040 £4.83	OG4540 £4.83	OG5040 £5.44	XOG4040 £6.00	XOG4540 £6.00	XOG5040 £6.83
Top fixing Rafter Bracket Steel	OG4041 £4.80	OG4541 £5.00	OG5041 £5.20	XOG4041 £10.97	XOG4541 £11.13	XOG5041 £11.30
Side fixing Rafter Bracket Steel	OG4042 £5.68	OG4542 £5.88	OG5042 £6.18	XOG4042 £11.89	XOG4542 £12.09	XOG5042 £12.22
Rise and Fall Brackets Steel	OG4043 £8.12	OG4543 £8.32	OG5043 £8.52	XOG4043 £14.09	XOG4543 £14.34	XOG5043 £14.55



Other colours available on request POA

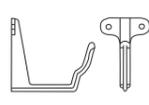
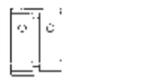
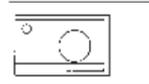
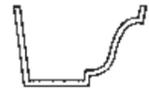


Notts OG Gutter		
Description	Premier (Primed)	Premier Extra (Black)
	115mm (4.5")	115mm (4.5")
1829mm (6') Gutter	NO4501 £74.78	XNO4501 £93.48
Angle		
Description	Premier (Primed)	Premier Extra (Black)
	115mm (4.5")	115mm (4.5")
Square Angle (90°) External	NO4510 £41.55	XNO4510 £51.92
Square Angle (90°) Internal	NO4511 £41.55	XNO4511 £51.92
Obtuse Angle (135°) External	NO4512 £41.55	XNO4512 £51.92
Obtuse Angle (135°) Internal	NO4513 £41.55	XNO4513 £51.92
Outlet		
Description	Premier (Primed)	Premier Extra (Black)
	115mm (4.5")	115mm (4.5")
A = 65mm B = 75mm		
Nozzle/Centre Drop	NO4520A £41.55	XNO4520A £51.92
	NO4520B £41.55	XNO4520B £51.92
Dropend External	NO4521A £41.55	XNO4521A £51.92
	NO4521B £41.55	XNO4521B £51.92
Dropend Internal	NO4522A £41.55	XNO4522A £51.92
	NO4522B £41.55	XNO4522B £51.92
Stopend		
Description	Premier (Primed)	Premier Extra (Black)
	115mm (4.5")	115mm (4.5")
Stopend External	NO4530 £14.81	XNO4530 £18.55
Stopend Internal	NO4531 £14.81	XNO4531 £18.55
Clip		
Description	Premier (Primed)	Premier Extra (Black)
	115mm (4.5")	115mm (4.5")
Union Clip	NO4535 £17.36	XNO4535 £21.69
Bracket		
Description	Premier (Primed)	Premier Extra (Black)
	115mm (4.5")	115mm (4.5")
Fascia Bracket	NO4540 £14.81	XNO4540 £18.55
Top Fix Rafter Bracket Steel	NO4541 £5.80	XNO4541 £10.97
Side Fix Rafter Bracket Steel	NO4542 £6.80	XNO4542 £12.39
Rise and Fall Bracket Steel	NO4543 £9.60	XNO4543 £15.20



Other colours available on request POA

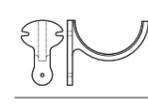
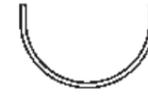
g46 moulded gutters & fittings



G46 Moulded Gutter				
	Premier (Primed)		Premier Extra (Black)	
Description	100 x 75 (4" x 3")	125 x 100 (5" x 4")	100 x 75 (4" x 3")	125 x 100 (5" x 4")
1829mm (6') Gutter	G4301 £73.63	G5401 £106.05	XG4301 £92.11	XG5401 £132.55
Angle				
	Premier (Primed)		Premier Extra (Black)	
Description	100 x 75 (4" x 3")	125 x 100 (5" x 4")	100 x 75 (4" x 3")	125 x 100 (5" x 4")
Square Angle (90°) External	G4310 £40.67	G5410 £58.47	XG4310 £50.83	XG5410 £73.06
Square Angle (90°) Internal	G4311 £40.67	G5411 £58.47	XG4311 £50.83	XG5411 £73.06
Obtuse Angle (135°) External	G4312 £40.67	G5412 £58.47	XG4312 £50.83	XG5412 £73.06
Obtuse Angle (135°) Internal	G4313 £40.67	G5413 £58.47	XG4313 £50.83	XG5413 £73.06
Outlet				
	Premier (Primed)		Premier Extra (Black)	
Description	100 x 75 (4" x 3")	125 x 100 (5" x 4")	100 x 75 (4" x 3")	125 x 100 (5" x 4")
A = 65mm B = 75mm C = 100mm				
Nozzle/Centre Drop	G4320A £40.67	G5420A £58.47	XG4020A £50.83	XG4520A £73.06
	G4320B £40.67	G5420B £58.47	XG4020B £50.83	XG4520B £73.06
Dropend External	G4321A £40.67	G5421A £58.47	XG4021A £50.83	XG4521A £73.06
	G4321B £40.67	G5421B £58.47	XG4021B £50.83	XG4521B £73.06
Dropend Internal	G4322A £40.67	G5422A £58.47	XG4022A £50.83	XG4522A £73.06
	G4322B £40.67	G5422B £58.47	XG4022B £50.83	XG4522B £73.06
Stopend				
	Premier (Primed)		Premier Extra (Black)	
Description	100 x 75 (4" x 3")	125 x 100 (5" x 4")	100 x 75 (4" x 3")	125 x 100 (5" x 4")
Stopend External	G4330 £15.52	G5430 £20.22	XG4330 £19.41	XG5430 £25.16
Stopend Internal	G4331 £15.52	G5431 £20.22	XG4331 £19.41	XG5431 £25.16
Clip				
	Premier (Primed)		Premier Extra (Black)	
Description	100 x 75 (4" x 3")	125 x 100 (5" x 4")	100 x 75 (4" x 3")	125 x 100 (5" x 4")
Union Clip	G4335 £17.02	G5435 £20.22	XG4335 £21.27	XG5435 £25.27
Bracket				
	Premier (Primed)		Premier Extra (Black)	
Description	100 x 75 (4" x 3")	125 x 100 (5" x 4")	100 x 75 (4" x 3")	125 x 100 (5" x 4")
Fascia Bracket	G4340 £6.61	G5440 £7.94	XG4340 £8.14	XG5440 9.95
Top Fix Rafter Bracket Steel	G4341 £5.80	G5441 £6.00	XG4341 £13.09	XG5441 £13.36
Side Fix Rafter Bracket Steel	G4342 £6.80	G5442 £7.00	XG4342 £14.14	XG5442 £14.47
Rise and Fall Bracket Steel	G4343 £12.00	G5443 £12.52	XG4343 £17.72	XG5443 £17.98

Other colours available on request POA

plain deep half round gutters & fittings



Plain Deep Half Round Gutter				
	Premier (Primed)		Premier Extra (Black)	
Description	100 x 75 (4" x 3")	125 x 75 (5" x 3")	100 x 75 (4" x 3")	125 x 75 (5" x 3")
1829mm (6') Gutter	DH4301 £62.61	DH5301 £81.70	XDH4301 £79.00	XDH5301 £102.13
Angle				
	Premier (Primed)		Premier Extra (Black)	
Description	100 x 75 (4" x 3")	125 x 75 (5" x 3")	100 x 75 (4" x 3")	125 x 75 (5" x 3")
Square Angle (90°) Left Hand	DH4310 £44.14	DH5310 £56.08	XDH4310 £55.20	XDH5310 £62.92
Square Angle (90°) Right Hand	DH4311 £44.14	DH5311 £56.08	XDH4311 £55.20	XDH5311 £62.92
Obtuse Angle (135°) Left Hand	DH4312 £44.14	DH5312 £56.08	XDH4312 £55.20	XDH5312 £62.92
Obtuse Angle (135°) Right Hand	DH4313 £44.14	DH5313 £56.08	XDH4313 £55.20	XDH5313 £62.92
Outlet				
	Premier (Primed)		Premier Extra (Black)	
Description	100 x 75 (4" x 3")	125 x 75 (5" x 3")	100 x 75 (4" x 3")	125 x 75 (5" x 3")
A = 65mm B = 75mm				
Nozzle/Centre Drop	DH4320A £44.14	DH5320A £56.08	XDH4320A £55.20	XDH5320A £62.92
	DH4320B £44.14	DH5320B £56.08	XDH4320B £55.20	XDH5320B £62.92
Dropend External	DH4321A £44.14	DH5321A £56.08	XDH4321A £55.20	XDH5321A £62.92
	DH4321B £44.14	DH5321B £56.08	XDH4321B £55.20	XDH5321B £62.92
Dropend Internal	DH4322A £44.14	DH5322A £56.08	XDH4322A £55.20	XDH5322A £62.92
	DH4322B £44.14	DH5322B £56.08	XDH4322B £55.20	XDH5322B £62.92
Stopend				
	Premier (Primed)		Premier Extra (Black)	
Description	100 x 75 (4" x 3")	125 x 75 (5" x 3")	100 x 75 (4" x 3")	125 x 75 (5" x 3")
Stopend External	DH4330 £15.98	DH5330 £18.78	XDH4330 £20.00	XDH5330 £23.45
Stopend Internal	DH4331 £15.98	DH5331 £18.78	XDH4331 £20.00	XDH5331 £23.45
Clip				
	Premier (Primed)		Premier Extra (Black)	
Description	100 x 75 (4" x 3")	125 x 75 (5" x 3")	100 x 75 (4" x 3")	125 x 75 (5" x 3")
Union Clip	DH4335 £17.36	DH5335 £18.78	XDH4335 £21.69	XDH5335 £23.45
Bracket				
	Premier (Primed)		Premier Extra (Black)	
Description	100 x 75 (4" x 3")	125 x 75 (5" x 3")	100 x 75 (4" x 3")	125 x 75 (5" x 3")
Fascia Bracket	DH4340 £15.98	DH5340 £18.78	XDH4340 £20.03	XDH5340 £23.45
Top Fix Rafter Bracket Steel	DH4341 £7.74	DH5341 £7.94	XDH4341 £12.08	XDH5341 £12.33
Side Fix Rafter Bracket Steel	DH4342 £8.74	DH5342 £8.94	XDH4342 £12.58	XDH5342 £12.80
Rise and Fall Bracket Steel	DH4343 £11.44	DH5343 £12.44	XDH4343 £14.81	XDH5343 £15.72

Other colours available on request POA

box gutters & fittings



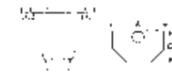
Box Gutter - Double Spigot		
	Premier (Primed)	Premier Extra (Black)
Description	100mm x 75mm (4" x 3")	100mm x 75mm (4" x 3")
1829mm (6') Gutter	B4301 £114.00	XB4301 £142.50
Angle		
	Premier (Primed)	Premier Extra (Black)
Description	100mm x 75mm (4" x 3")	100mm x 75mm (4" x 3")
Square Angle (90°)	B4310 £41.55	XB4310 £51.92
Obtuse Angle (135°)	B4311 £41.55	XB4311 £51.92
Outlet		
	Premier (Primed)	Premier Extra (Black)
Description	100mm x 75mm (4" x 3")	100mm x 75mm (4" x 3")
A = 65mm B = 75mm		
Nozzle/Centre Drop	B4320A £30.67 B4520B £30.67	XB4320A £38.36 XB4320B £38.36
Stopend		
	Premier (Primed)	Premier Extra (Black)
Description	100mm x 75mm (4" x 3")	100mm x 75mm (4" x 3")
Stopend	B4330 £8.89	XB4330 £11.14
Clip		
	Premier (Primed)	Premier Extra (Black)
Description	100mm x 75mm (4" x 3")	100mm x 75mm (4" x 3")
Union Clip	B4335 £11.56	XB4335 £14.47
Bracket		
	Premier (Primed)	Premier Extra (Black)
Description	100mm x 75mm (4" x 3")	100mm x 75mm (4" x 3")
Fascia Bracket	B4340 £9.07	XB4340 £11.31

Other colours available on request POA

Rafter brackets, top and side fixing and rise and fall brackets are available. Price available on request.



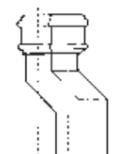
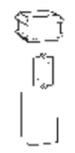
standard rainwater heads



Standard Heads				
	Premier (Primed)		Premier Extra (Black)	
Description	Width x Depth x Height		Width x Depth x Height	
H0 Flat Back Hopper 65mm (2.5")	210 x 163 x 195mm	RH025 £30.78	210 x 163 x 195mm	XRH025 £33.86
H0 Flat Back Hopper 75mm (3")	210 x 163 x 195mm	RH03 £30.78	210 x 163 x 195mm	XRH03 £33.86
H0 Flat Back Hopper 100mm (4")	253 x 210 x 210mm	RH04 £77.47	253 x 210 x 210mm	XRH04 £85.20
H460 Rectangular Plain Head 65mm (2.5")	255 x 178 x 178mm	RH46010 £68.53	255 x 178 x 178mm	XRH46010 £75.39
H460 Rectangular Plain Head 75mm (3")	255 x 178 x 178mm	RH460103 £68.53	255 x 178 x 178mm	XRH460103 £75.39
H460 Rectangular Plain Head 100mm (4")	255 x 178 x 178mm	RH460104 £68.53	255 x 178 x 178mm	XRH460104 £75.39
H460 Rectangular Plain Head 65mm (2.5")	305 x 250 x 200mm	RH46012 £133.94	305 x 250 x 200mm	XRH46012 £147.33
H460 Rectangular Plain Head 75mm (3")	305 x 250 x 200mm	RH460123 £133.94	305 x 250 x 200mm	XRH460123 £147.33
H460 Rectangular Plain Head 100mm (4")	305 x 250 x 200mm	RH460124 £133.94	305 x 250 x 200mm	XRH460124 £147.33
H460D Rectangular Castellated 65mm (2.5")	255 x 178 x 178mm	RH46010D £68.53	255 x 178 x 178mm	XRH46010D £75.39
H460D Rectangular Castellated 75mm (3")	255 x 178 x 178mm	RH460103D £68.53	255 x 178 x 178mm	XRH460103D £75.39

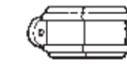
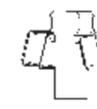
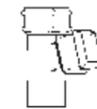
Sundries		
Gutter Bolt Nut & Washer		
Description		
M6 x 25 Bolt, Nut & Washer Zinc		HR001 £0.33
Silicone Sealant		
Description		
Cartridge Sealquick Sealant		HR002 £13.03
Fixing Screw		
Description		
16g x 30mm Mushroom Head Screw Zinc		HR003 £0.53
Wood Screw		
Description		
Round Head Pozzi Screw Zinc (For fixing Fascia & Rafter Brackets) No.10 x 1.25"		HR004 £0.09
Touch Up Paint		
Description		
250ml Black Semi-Gloss Finish		XP007 £10.33
Thinners/Cleaner		
Description		
250ml Thinners		XT008 £8.27
Rainwater Diverter Kit		
Description		
Rainwater Diverter Kit New Item	R2550DE 65mm 2.5" £48.20	R3050DE 75mm 3" £48.20





PROJECTION

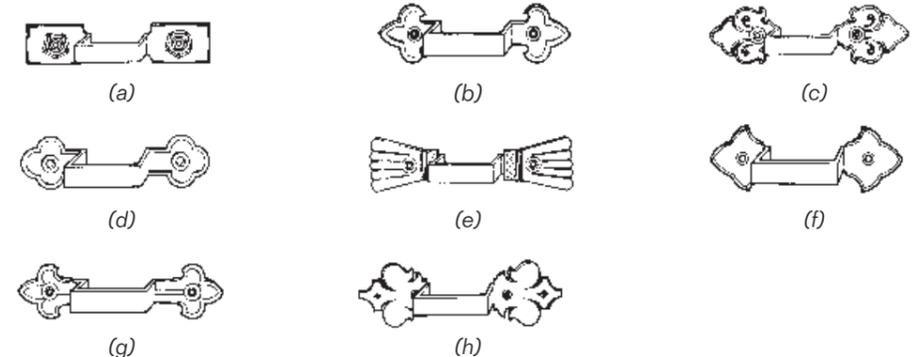
Pipe with Ears			
Description	75x75mm (3"x3")	100x100mm (4"x4")	125x125mm (5"x5")
1829mm (6') Pipe Eared	SQ3301E £220.25	SQ4401E £286.09	SQ5501E £433.49
1210mm (4') Pipe Eared	SQ3304E £190.31	SQ4404E £236.75	SQ5504E £349.89
914mm (3') Pipe Eared	SQ3303E £145.24	SQ4403E £185.04	SQ5503E £311.73
610mm (2') Pipe Eared	SQ3302E £145.24	SQ4402E £185.04	SQ5502E £311.73
Pipe without Ears			
Description	75x75mm (3"x3")	100x100mm (4"x4")	125x125mm (5"x5")
1829mm (6') Pipe Plain	SQ3301 £216.91	SQ4401 £281.25	SQ5501 £428.00
1210mm (4') Pipe Plain	SQ3304 £186.71	SQ4404 £231.71	SQ5504 £343.71
914mm (3') Pipe Plain	SQ3303 £140.64	SQ4403 £179.95	SQ5503 £305.27
610mm (2') Pipe Plain	SQ3302 £140.64	SQ4402 £179.95	SQ5502 £305.27
Access Pipe			
Description	75x75mm (3"x3")	100x100mm (4"x4")	125x125mm (5"x5")
Access Pipe (Available with ears upon request.)	SQ3310 £280.45	SQ4410 £310.33	SQ5510 £353.45
Shoe			
Description	75x75mm (3"x3")	100x100mm (4"x4")	125x125mm (5"x5")
Shoe Eared	SQ3351E £100.71	SQ4451E £140.07	SQ5551E £177.42
Shoe Plain	SQ3351 £97.82	SQ4451 £134.36	SQ5551 £174.11
Anti-Splash Shoe Eared	SQ3352E £140.51	SQ4452E £212.00	SQ5552E £277.27
Anti-Splash Shoe Plain	SQ3352 £129.96	SQ4452 £192.69	SQ5552 £262.55
Bend			
Description	75x75mm (3"x3")	100x100mm (4"x4")	125x125mm (5"x5")
Bends 92.5°	SQ3320 £69.40	SQ4420 £123.89	SQ5520 £173.31
Bends 112.5°	SQ3321 £69.40	SQ4421 £123.89	SQ5521 £173.31
Bends 135°	SQ3322 £69.40	SQ4422 £123.89	SQ5522 £173.31
Offset 112.5°			
Description	75x75mm (3"x3")	100x100mm (4"x4")	125x125mm (5"x5")
56mm (2.25") projection	SQ3340 £84.36	SQ4440 £140.65	SQ5540 £221.25
75mm (3") projection	SQ3341 £84.36	SQ4441 £140.65	SQ5541 £221.25
115mm (4.5") projection	SQ3342 £86.73	SQ4442 £156.95	SQ5542 £248.35
150mm (6") projection	SQ3343 £86.73	SQ4443 £156.95	SQ5543 £248.35
230mm (9") projection	SQ3344 £116.33	SQ4444 £190.85	SQ5544 £295.36
305mm (12") projection	SQ3345 £136.58	SQ4445 £238.85	SQ5545 £357.35
380mm (15") projection	SQ3346 £209.35	SQ4446 £270.29	SQ5546 £479.64
457mm (18") projection	SQ3347 £282.55	SQ4447 £390.15	SQ5547 £616.05
533mm (21") projection	SQ3348 £349.65	SQ4448 £497.24	SQ5548 £747.62
610mm (24") projection	SQ3349 £408.47	SQ4449 £571.10	SQ5549 £837.10



Please see the illustrations below for Ornamental Earbands. (a,b,c,d,e,f,g and h represents various styles.)

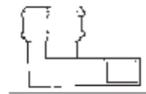
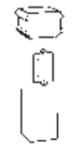
Plinth Offsets 135°			
Description	75x75mm (3"x3")	100x100mm (4"x4")	125x125mm (5"x5")
115mm (4.5") Projection Plain	SQ3342P £97.27	SQ4442P £157.75	SQ5542P £248.15
115mm (4.5") Projection Eared	SQ3342PE £124.55	SQ4442PE £185.02	SQ5542PE £275.42
Branch			
Description	75x75mm (3"x3")	100x100mm (4"x4")	125x125mm (5"x5")
Single Branch: 92.5°	SQ3330 £187.24	SQ4430 £233.09	SQ5530 £283.47
Single Branch: 112.5°	SQ3331 £187.24	SQ4431 £233.09	SQ5531 £283.47
Single Branch: 135°	SQ3332 £187.24	SQ4432 £233.09	SQ5532 £283.47
Double Branch: 92.5°	SQ3333 £291.46	SQ4433 £363.36	SQ5533 £516.93
Double Branch: 112.5°	SQ3334 £291.46	SQ4434 £363.36	SQ5534 £516.93
Double Branch: 135°	SQ3335 £291.46	SQ4435 £363.36	SQ5535 £516.93
Loose Socket			
Description	75x75mm (3"x3")	100x100mm (4"x4")	125x125mm (5"x5")
Loose Socket Eared	SQ3350E £51.82	SQ4450E £72.46	SQ5550E £108.20
Loose Socket Plain	SQ3350 £42.75	SQ4450 £69.06	SQ5550 £102.20
Connector			
Description	75x75mm (3"x3")	100x100mm (4"x4")	125x125mm (5"x5")
Square to Round Connector	SQ3325 £112.62	SQ4425 £136.75	SQ5525 £183.22
Holderbat			
Description	75x75mm (3"x3")	100x100mm (4"x4")	125x125mm (5"x5")
Build-in-Holderbat	SQ3360 £50.31	SQ4460 £94.73	SQ5560 £139.35
Earband			
Description	75x75mm (3"x3")	100x100mm (4"x4")	125x125mm (5"x5")
Earband Plain	SQ3365 £40.64	SQ4465 £47.13	SQ5565 £63.49
Earband Ornamental	SQ3365O £60.56	SQ4465O £67.76	SQ5565O £89.67

Extra for ears on fittings not specified above: £16.05

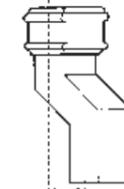


Note: other styles available to special order

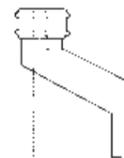
All fittings available with ears



Pipe with Ears				
Description	100x75mm (4"x3")	125x70mm (5"x2.75")	125x100mm (5"x4")	150x100mm (6"x4")
1829mm (6') Pipe Eared	RT4301E £215.04	RT5301E £323.27	RT5401E £323.27	RT6401E £376.96
1210mm (4') Pipe Eared	RT4304E £184.86	RT5304E £268.35	RT5404E £268.35	RT6404E £304.27
914mm (3') Pipe Eared	RT4303E £141.09	RT5303E £243.24	RT5403E £243.24	RT6403E £271.07
610mm (2') Pipe Eared	RT4302E £141.09	RT5302E £243.24	RT5402E £243.24	RT6402E £271.07
Pipe without Ears				
Description	100x75mm (4"x3")	125x70mm (5"x2.75")	125x100mm (5"x4")	150x100mm (6"x4")
1829mm (6') Pipe Plain	RT4301 £211.29	RT5301 £319.76	RT5401 £319.76	RT6401 £372.16
1210mm (4') Pipe Plain	RT4304 £180.93	RT5304 £263.71	RT5404 £263.71	RT6404 £298.89
914mm (3') Pipe Plain	RT4303 £136.93	RT5303 £237.98	RT5403 £237.98	RT6403 £265.44
610mm (2') Pipe Plain	RT4302 £136.93	RT5302 £237.98	RT5402 £237.98	RT6402 £265.44
Access Pipe				
Description	100x75mm (4"x3")	125x70mm (5"x2.75")	125x100mm (5"x4")	150x100mm (6"x4")
Access Pipe (Available with ears upon request.)	RT4310 £236.84	RT5310 £272.84	RT5410 £272.84	RT6410 £283.93
Shoe				
Description	100x75mm (4"x3")	125x70mm (5"x2.75")	125x100mm (5"x4")	150x100mm (6"x4")
Shoe Eared	RT4345E £112.29	RT5345E £141.62	RT5445E £141.62	RT6445E £177.40
Shoe Plain	RT4345 £102.07	RT5345 £138.64	RT5445 £138.64	RT6445 £174.11
Anti-Splash Shoe Eared	RT4346E £140.71	RT5346E £227.45	RT5446E £227.45	RT6446E £277.27
Anti-Splash Shoe Plain	RT4346 £129.96	RT5346 £208.75	RT5446 £208.75	RT6446 £262.55
Side Shoe Eared	RT4347E £140.65	RT5347E £177.04	RT5447E £177.04	RT6447E £222.26
Side Shoe Plain	RT4347 £120.18	RT5347 £159.04	RT5447 £159.04	RT6447 £217.09
Bend				
Description	100x75mm (4"x3")	125x70mm (5"x2.75")	125x100mm (5"x4")	150x100mm (6"x4")
Front Bend: 92.5°	RT4320 £72.87	RT5320 £131.58	RT5420 £131.58	RT6420 £173.31
Front Bend: 112.5°	RT4321 £72.87	RT5321 £131.58	RT5421 £131.58	RT6421 £173.31
Front Bend: 135°	RT4322 £72.87	RT5322 £131.58	RT5422 £131.58	RT6422 £173.31
Side Bend: 92.5°	RS4320 £90.98	RS5320 £164.82	RS5420 £164.82	RS6420 £217.09
Side Bend: 112.5°	RS4321 £90.98	RS5321 £164.82	RS5421 £164.82	RS6421 £217.09
Side Bend: 135°	RS4322 £90.98	RS5322 £164.82	RS5422 £164.82	RS6422 £217.09

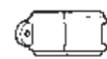
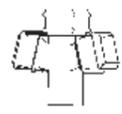
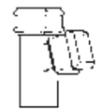


PROJECTION



PROJECTION

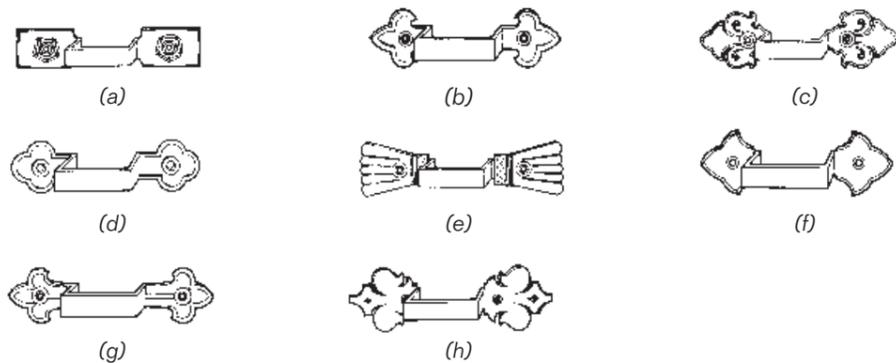
Front Offset 112.5°				
Description	100x75mm (4"x3")	125x70mm (5"x2.75")	125x100mm (5"x4")	150x100mm (6"x4")
56mm (2.25") projection	RT4340 £90.64	RT5340 £163.64	RT5440 £163.64	RT6440 £221.26
75mm (3") projection	RT4341 £90.64	RT5341 £170.08	RT5441 £170.08	RT6441 £221.26
115mm (4.5") projection	RT4342 £100.36	RT5342 £186.31	RT5442 £186.31	RT6442E £248.55
150mm (6") projection	RT4343 £100.36	RT5343 £186.31	RT5443 £186.31	RT6443 £248.55
230mm (9") projection	RT4344 £123.18	RT5344 £224.04	RT5444 £224.04	RT6444 £295.47
305mm (12") projection	RT4345 £150.04	RT5345 £279.11	RT5445 £279.11	RT6445 £357.35
380mm (15") projection	RT4346 £245.38	RT5346 £404.75	RT5446 £404.75	RT6446 £508.40
457mm (18") projection	RT4347 £321.31	RT5347 £559.07	RT5447 £559.07	RT6447 £619.95
533mm (21") projection	RT4348 £398.56	RT5348 £710.36	RT5448 £710.36	RT6448 £747.62
610mm (24") projection	RT4349 £398.56	RT5349 £710.36	RT5449 £710.36	RT6449 £747.62
Side Offset 112.5°				
Description	100x75mm (4"x3")	125x70mm (5"x2.75")	125x100mm (5"x4")	150x100mm (6"x4")
56mm (2.25") projection	RS4340 £109.51	RS5340 £204.62	RS5440 £204.62	RS6440 £276.80
75mm (3") projection	RS4341 £109.51	RS5341 £204.62	RS5441 £204.62	RS6441 £276.80
115mm (4.5") projection	RS4342 £125.47	RS5342 £232.73	RS5442 £232.73	RS6442 £310.44
150mm (6") projection	RS4343 £125.47	RS5343 £232.73	RS5443 £232.73	RS6443 £310.44
230mm (9") projection	RS4344 £158.45	RS5344 £279.71	RS5444 £279.71	RS6444 £369.33
305mm (12") projection	RS4345 £187.42	RS5345 £348.49	RS5445 £348.49	RS6445 £420.95
380mm (15") projection	RS4346 £321.31	RS5346 £477.58	RS5446 £477.58	RS6446 £635.98
457mm (18") projection	RS4347 £401.87	RS5347 £559.07	RS5447 £559.07	RS6447 £774.47
533mm (21") projection	RS4348 £501.71	RS5348 £710.36	RS5448 £710.36	RS6448 £933.84
610mm (24") projection	RS4349 £578.53	RS5349 £783.35	RS5449 £783.35	RS6449 £1043.09
Plinth Offsets 135°				
Description	4"x3"	5"x2.75"	5"x4"	6"x4"
115mm (4.5") Projection Plain	RT4342P £112.56	RT5342P £183.51	RT5442P £183.51	RT6442P £248.15
115mm (4.5") Projection Eared	RT4342PE £139.84	RT5342PE £210.78	RT5442PE £210.78	RT6442PE £275.42



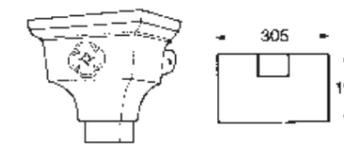
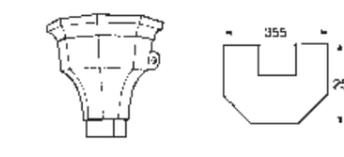
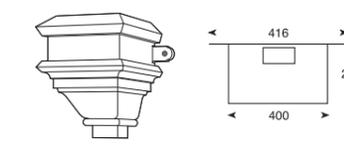
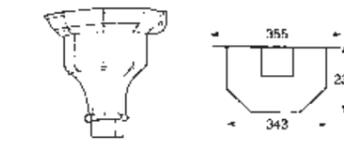
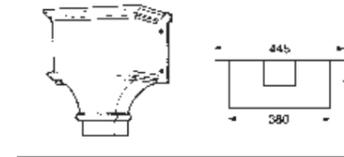
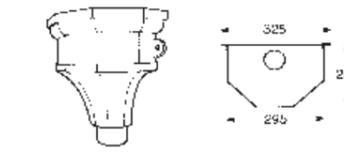
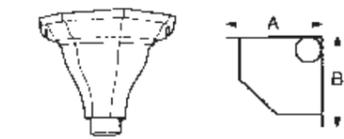
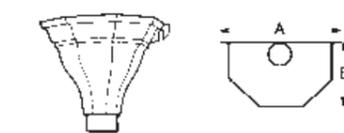
Please see the illustrations on below of Ornamental Earbands. (a,b,c,d,e,f,g and h represents various styles.)

Branch				
Description	100x75mm (4"x3")	125x70mm (5"x2.75")	125x100mm (5"x4")	150x100mm (6"x4")
Single Branch: 92.5°	RT4330 £210.36	RT5330 £234.95	RT5430 £234.95	RT6430 £283.47
Single Branch: 112.5°	RT4331 £210.36	RT5331 £234.95	RT5431 £234.95	RT6431 £283.47
Single Branch: 135°	RT4332 £210.36	RT5332 £234.95	RT5432 £234.95	RT6432 £283.47
Double Branch: 92.5°	RT4333 £331.36	RT5333 £412.04	RT5433 £412.04	RT6433 £487.67
Double Branch: 112.5°	RT4334 £331.36	RT5334 £412.04	RT5434 £412.04	RT6434 £487.67
Double Branch: 135°	RT4335 £331.36	RT5335 £412.04	RT5435 £412.04	RT6435 £487.67
Loose Socket				
Description	100x75mm (4"x3")	125x70mm (5"x2.75")	125x100mm (5"x4")	150x100mm (6"x4")
Loose Socket Eared	RT4350E £58.82	RT5350E £80.07	RT5450E £80.07	RT6450E £108.20
Loose Socket Plain	RT4350 £44.75	RT5350 £77.09	RT5450 £77.09	RT6450 £102.20
Connector				
Description	100x75mm (4"x3")	125x70mm (5"x2.75")	125x100mm (5"x4")	150x100mm (6"x4")
Rectangular to Round Connector	RT4325 £122.60	RT5325 £138.86	RT5425 £138.86	RT6425 £183.22
Holderbat				
Description	100x75mm (4"x3")	125x70mm (5"x2.75")	125x100mm (5"x4")	150x100mm (6"x4")
Built-in-Holderbat	RT4360 £50.31	RT5360 £98.73	RT5460 £98.73	RT6460 £139.35
Earband				
Description	100x75mm (4"x3")	125x70mm (5"x2.75")	125x100mm (5"x4")	150x100mm (6"x4")
Earband Plain	RT4365 £42.76	RT5365 £57.42	RT5465 £57.42	RT6465 £63.49
Earband Ornamental	RT4365O £56.40	RT5365O £81.16	RT5465O £81.16	RT6465O £89.67

Extra for ears on fittings not specified above: £16.05

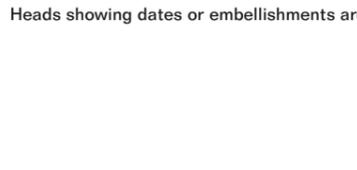
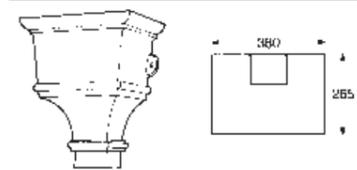
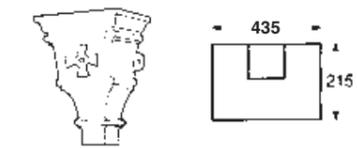
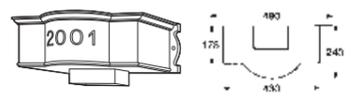
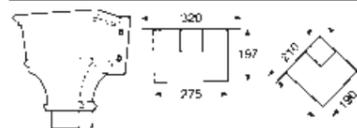
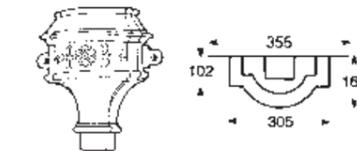
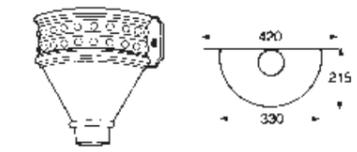
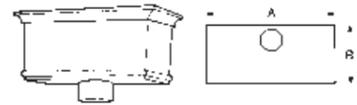
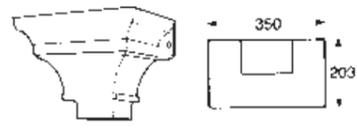


Note: other styles available to special order



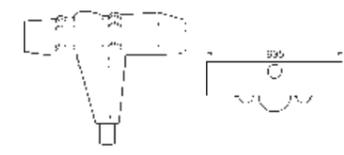
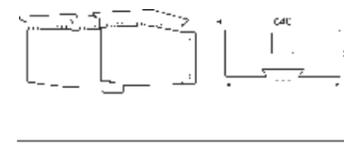
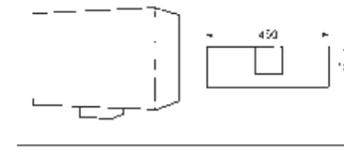
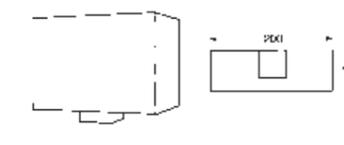
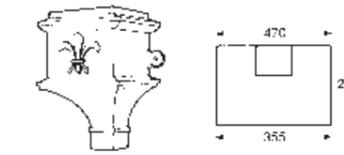
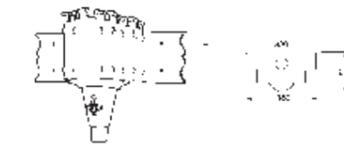
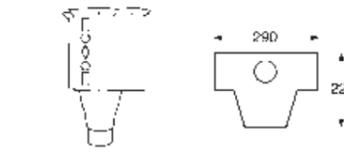
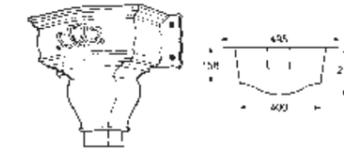
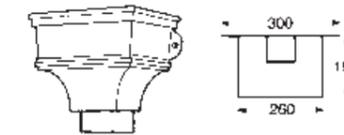
Ornamental Heads		
Description	Width x Depth x Height	
H1 65mm (2.5") Flat Back	305 x 197 x 210mm	RH12.5 £129.00
H1 75mm (3") Flat Back	305 x 197 x 210mm	RH13 £129.00
H1 100mm (4") Flat Back	335 x 230 x 240mm	RH14 £182.00
H1A 65mm (2.5") Corner	210 x 210 x 222mm	RH1A2.5 £129.00
H1A 75mm (3") Corner	210 x 210 x 222mm	RH1A3 £129.00
H1A 100mm (4") Corner	240 x 240 x 240mm	RH1A4 £182.00
H2	325 x 200 x 290mm	RH2 £297.00
H11	445 x 180 x 370mm	RH11 £317.00
H12	355 x 230 x 305mm	RH12 £359.00
H37	416 x 240 x 460mm	RH37 £415.00
H40	355 x 255 x 305mm	RH40 £359.00
H42A 305mm (12")	305 x 184 x 150mm	RH4212 £129.00
H42A 355mm (14")	355 x 184 x 150mm	RH4214 £146.00
H42A 457mm (18")	457 x 184 x 150mm	RH4218 £164.00
H42A 610mm (24")	610 x 184 x 150mm	RH4224 £255.00
H55	305 x 197 x 255mm	RH55 £309.00

Heads showing dates or embellishments are examples only. These items can be cast on any head, where suitable. P.O.A.



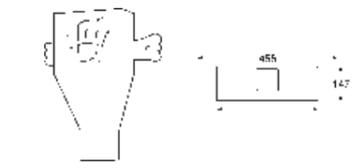
Ornamental Heads		
Description	Width x Depth x Height	
H58	350 x 203 x 203mm	RH58 £262.00
H82 355mm (14")	355 x 235 x 200mm	RH8214 £204.00
H82 482mm (19")	482 x 235 x 200mm	RH8219 £348.00
H82 610mm (24")	610 x 235 x 200mm	RH8224 £422.00
H82 762mm (30")	762 x 235 x 200mm	RH8230 £513.00
H86	420 x 215 x 305mm	RH86 £729.00
H91	355 x 160 x 343mm	RH91 £511.00
H97 Flat Back	320 x 197 x 292mm	RH97 £268.00
H97 Corner	210 x 210 x 292mm	RHA97 £268.00
H100	490 x 240 x 210mm	RH100 £469.00
H108	310 x 215 x 335mm	RH108 £422.00
H126	565 x 260 x 335mm	RH126 £1742.00
H132	380 x 265 x 430mm	RH132 £611.00

Heads showing dates or embellishments are examples only. These items can be cast on any head, where suitable. P.O.A.

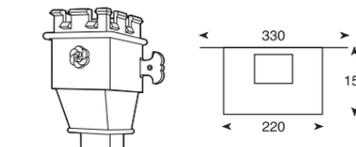
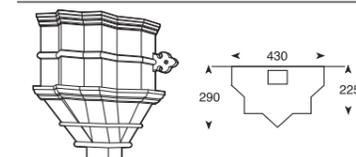
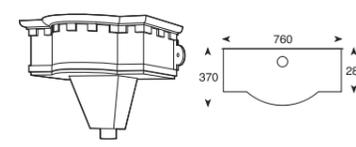
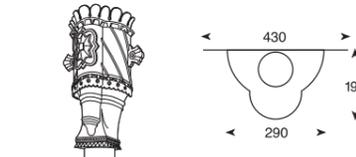
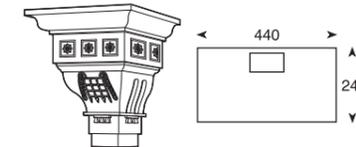
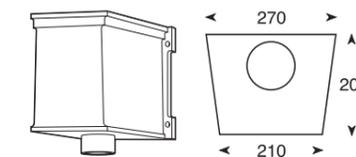
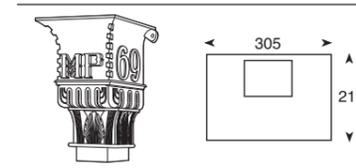
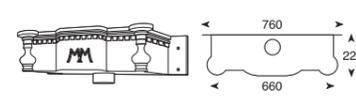
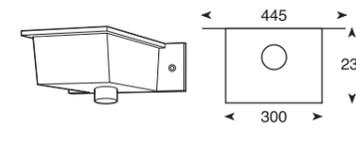
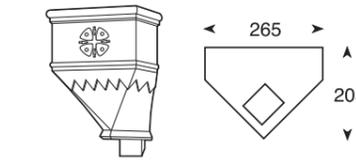


Ornamental Heads		
Description	Width x Depth x Height	
H169	300 x 197 x 222mm	RH169 £249.00
H178	495 x 210 x 375mm	RH178 £737.00
H498	290 x 220 x 370mm	RH498 £420.00
H499	820 x 210 x 370mm	RH499 £682.00
H500	470 x 230 x 640mm	RH500 £577.00
H501	200 x 150 x 370mm	RH501 £191.00
H501A	450 x 150 x 370mm	RH501L £328.00
H510	640 x 221 x 243mm	RH510 £531.00
H511	635 x 160 x 510mm	RH511 £584.00

Heads showing dates or embellishments are examples only. These items can be cast on any head, where suitable. P.O.A.

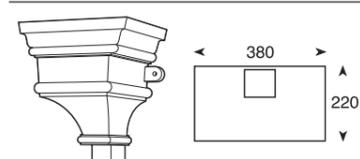
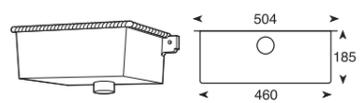
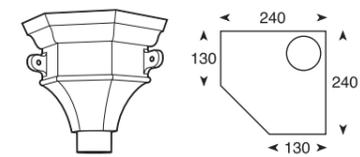
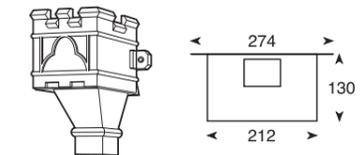
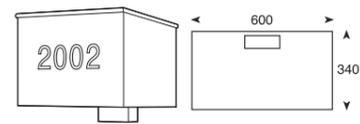
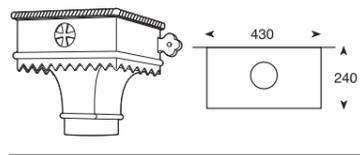
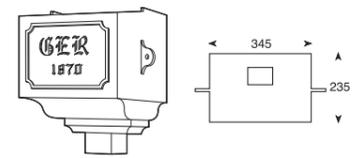
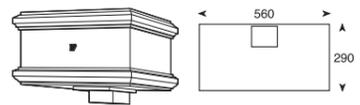
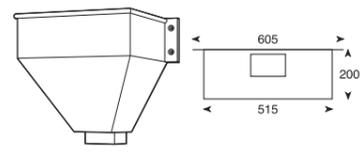


Ornamental Heads		
Description	Width x Depth x Height	
H512	455 x 147 x 471mm	RH512 £464.00
H513	508 x 367 x 340mm	RH513 £560.00
H514	785 x 505 x 582mm	RH514 £791.00
H515	291 x 179 x 429mm	RH515 £584.00
H516	505 x 180 x 167mm	RH516 £455.00
H517	405 x 205 x 280mm	RH517 £413.00
H518	455 x 260 x 530mm	RH518 £480.00
H519	340 x 190 x 325mm	RH519 £377.00
H520	435 x 160 x 360mm	RH520 £442.00
H521	430 x 185 x 370mm	RH521 £399.00



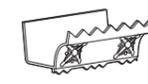
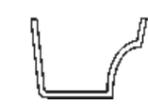
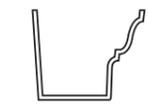
Ornamental Heads		
Description	Width x Depth x Height	
H521C	265 x 205 x 360mm	RHA521 £399.00
H522	445 x 235 x 168mm	RH522 £340.00
H523	760 x 225 x 210mm	RH523 £671.00
H524	305 x 210 x 445mm	RH524 £611.00
H525	270 x 208 x 285mm	RH525 £389.00
H526	440 x 240 x 460mm	RH526 £728.00
H527	430 x 195 x 540mm	RH527 £762.00
H528	760 x 370 x 565mm	RH528 £831.00
H529	430 x 290 x 540mm	RH529 £633.00
H530	330 x 150 x 350mm	RH530 £437.00

Dates or embellishments can be cast on any head where suitable



Ornamental Heads		
Description	Width x Depth x Height	
H531	605 x 200 x 505mm	RH531 £686.00
H532	560 x 290 x 305mm	RH532 £640.00
H533	345 x 235 x 390mm	RH533 £464.00
H534	430 x 240 x 366mm	RH534 £722.00
H540	600 x 340 x 475mm	RH540 £946.00
H541	274 x 130 x 330mm	RH541 £300.00
H542C	240 x 240 x 290mm	RHA542 £515.00
H543	504 x 185 x 200mm	RH543 £333.00
H544	380 x 220 x 418mm	RH544 £642.00

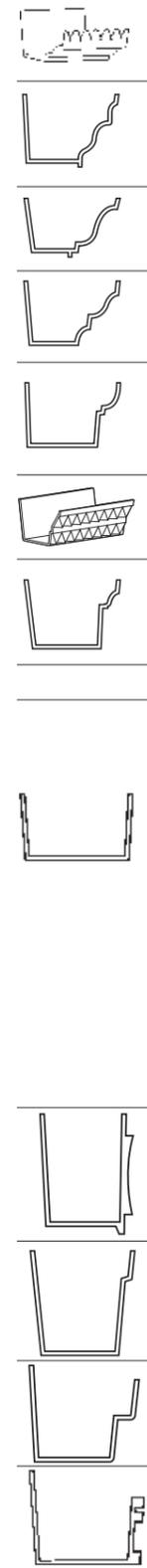
Dates or embellishments can be cast on any head where suitable



Plain Half Round					
Description	1829mm (6')	Angles	Nozzle	Stopends	Union Clip
H1 75mm (3")	6H13 £220.00	H1ANG3 £111.00	H1NOZZ3 £111.00	H1STOP3 £37.00	H1CLIP3 £37.00
Plain Deep Half Round					
Description	1829mm (6')	Angles	Nozzle	Stopends	Union Clip
H3 125x100mm (5"x4")	6H35x4 £220.00	H3ANG5x4 £111.00	H3NOZZ5x4 £111.00	H3STOP5x4 £37.00	H3CLIP5x4 £37.00
H3 150x100mm (6"x4")	6H36x4 £246.00	H3ANG6x4 £124.00	H3NOZZ6x4 £124.00	H3STOP6x4 £42.00	H3CLIP6x4 £42.00
H3 200x100mm (8"x4")	6H38x4 £399.00	H3ANG8x4 £200.00	H3NOZZ8x4 £200.00	H3STOP8x4 £68.00	H3CLIP8x4 £68.00
Double Beaded Deep Half Round					
Description	1829mm (6')	Angles	Nozzle	Stopends	Union Clip
H3A 125X100mm (5"x4")	6H3A5x4 £220.00	H3AANG5x4 £110.00	H3ANOZZ5x4 £110.00	H3ASTOP5x4 £37.00	H3ACLIP5x4 £37.00
H3A 150x100mm (6"x4")	6H3A6x4 £246.00	H3AANG6x4 £124.00	H3ANOZZ6x4 £124.00	H3ASTOP6x4 £42.00	H3ACLIP6x4 £42.00
H3A 200X100mm (8"x4")	6H3A8x4 £399.00	H3AANG8x4 £200.00	H3ANOZZ8x4 £200.00	H3ASTOP8x4 £68.00	H3ACLIP8x4 £68.00
Single Beaded Deep Half Round					
Description	1829mm (6')	Angles	Nozzle	Stopends	Union Clip
H3B 125X100mm (5"x4")	6H3B5x4 £220.00	H3BANG5x4 £111.00	H3BNOZZ5x4 £111.00	H3BSTOP5x4 £37.00	H3BCLIP5x4 £37.00
H3B 150x100mm (6"x4")	6H3B6x4 £246.00	H3BANG6x4 £124.00	H3BNOZZ6x4 £124.00	H3BSTOP6x4 £42.00	H3BCLIP6x4 £42.00
H3B 200X100mm (8"x4")	6H3B8x4 £399.00	H3BANG8x4 £200.00	H3BNOZZ8x4 £200.00	H3BSTOP8x4 £68.00	H3BCLIP8x4 £68.00
Moulded & Deep OG					
Description	1829mm (6')	Angles	Nozzle	Stopends	Union Clip
H10 125x100mm (5"x4")	6H105x4 £244.00	H10ANG5x4 £122.00	H10NOZZ5x4 £122.00	H10STOP5x4 £42.00	H10CLIP5x4 £42.00
H10 190x114mm (7.5"x4.5")	6H107.5x4.5 £342.00	H10ANG7.5x4.5 £171.00	H10NOZZ7.5x4.5 £171.00	H10STOP7.5x4.5 £59.00	H10CLIP7.5x4.5 £59.00
H10 200x150mm (8"x6")	6H108x6 £468.00	H10ANG8x6 £231.00	H10NOZZ8x6 £231.00	H10STOP8x6 £77.00	H10CLIP8x6 £77.00
H10 250x180mm (10"x7")	6H1010x7 £606.00	H10ANG10x7 £304.00	H10NOZZ10x7 £304.00	H10STOP10x7 £102.00	H10CLIP10x7 £102.00
H12 125x75mm (5"x3")	6H125x3 £220.00	H12ANG5x3 £111.00	H12NOZZ5x3 £111.00	H12STOP5x3 £37.00	H12CLIP5x3 £37.00
H12 125x100mm (5"x4")	6H125x4 £260.00	H12ANG5x4 £131.00	H12NOZZ5x4 £131.00	H12STOP5x4 £44.00	H12CLIP5x4 £44.00
H12 150x100mm (6"x4")	6H126x4 £262.00	H12ANG6x4 £131.00	H12NOZZ6x4 £131.00	H12STOP6x4 £44.00	H12CLIP6x4 £44.00
H12 200x114mm (8"x4.5")	6H128x4.5 £420.00	H12ANG8x4.5 £211.00	H12NOZZ8x4.5 £211.00	H12STOP8x4.5 £71.00	H12CLIP8x4.5 £71.00
H12S 133x100mm (5.25"x4")	6H12S5.25x4 £455.00	H12SANG5.25x4 £228.00	H12SNOZZ5.25x4 £228.00	H12SSTOP5.25x4 £77.00	H12SCLIP5.25x4 £77.00
H13 125x100mm (5"x4")	6H135x4 £264.00	H13ANG5x4 £133.00	H13NOZZ5x4 £133.00	H13STOP5x4 £44.00	H13CLIP5x4 £44.00



Moulded & Deep OG continued					
Description	1829mm (6')	Angles	Nozzle	Stopends	Union Clip
H14 125x115mm (5"x4.5")	6H145x4.5 £289.00	H14ANG5x4.5 £140.00	H14NOZZ5x4.5 £146.00	H14STOP5x4.5 £49.00	H14CLIP5x4.5 £49.00
H14 150x100mm (6"x4")	6H146x4 £300.00	H14ANG6x4 £151.00	H14NOZZ6x4 £151.00	H14STOP6x4 £51.00	H14CLIP6x4 £51.00
H14 150x115mm (6"x4.5")	6H146x4.5 £308.00	H14ANG6x4.5 £155.00	H14NOZZ6x4.5 £155.00	H14STOP6x4.5 £53.00	H14CLIP6x4.5 £53.00
H14S 150x100mm (6"x4")	6H14S6x4 £482.00	H14SANG6x4 £242.00	H14SNOZZ6x4 £242.00	H14SSTOP6x4 £82.00	H14SCLIP6x4 £82.00
H14S 150x150mm (6"x6")	6H14S6x6 £531.00	H14SANG6x6 £266.00	H14SNOZZ6x6 £266.00	H14SSTOP6x6 £89.00	H14SCLIP6x6 £89.00
H16 125x100mm (5"x4")	6H165x4 £129.00	H16ANG5x4 £66.00	H16NOZZ5x4 £66.00	H16STOP5x4 £22.00	H16CLIP5x4 £22.00
H16 150x100mm (6"x4")	6H166x4 £144.00	H16ANG6x4 £73.00	H16NOZZ6x4 £73.00	H16STOP6x4 £26.00	H16CLIP6x4 £26.00
H16 230x115mm (9"x4.5")	6H169x4.5 £482.00	H16ANG9x4.5 £242.00	H16NOZZ9x4.5 £242.00	H16STOP9x4.5 £82.00	H16CLIP9x4.5 £82.00
H16 292x127mm (11.5"x5")	6H1611.5x5 £524.00	H16ANG11.5x5 £262.00	H16NOZZ11.5x5 £262.00	H16STOP11.5x5 £88.00	H16CLIP11.5x5 £88.00
H16 340x115mm (13.5"x4.5")	6H1613.5x4.5 £548.00	H16ANG13.5x4.5 £275.00	H16NOZZ13.5x4.5 £275.00	H16STOP13.5x4.5 £93.00	H16CLIP13.5x4.5 £93.00
H23 125x75mm (5"x3")	6H235x3 £262.00	H23ANG5x3 £131.00	H23NOZZ5x3 £131.00	H23STOP5x3 £44.00	H23CLIP5x3 £44.00
H23 125x100mm (5"x4")	6H235x4 £266.00	H23ANG5x4 £133.00	H23NOZZ5x4 £133.00	H23STOP5x4 £46.00	H23CLIP5x4 £46.00
H23 150x100mm (6"x4")	6H236x4 £269.00	H23ANG6x4 £135.00	H23NOZZ6x4 £135.00	H23STOP6x4 £46.00	H23CLIP6x4 £46.00
H23 157x133mm (6.25"x5.25")	6H236.25x5.25 £277.00	H23ANG6.25x5.25 £139.00	H23NOZZ6.25x5.25 £139.00	H23STOP6.25x5.25 £48.00	H23CLIP6.25x5.25 £48.00
H23 180x125mm (7"x5")	6H237x5 £368.00	H23ANG7x5 £184.00	H23NOZZ7x5 £184.00	H23STOP7x5 £62.00	H23CLIP7x5 £62.00
H23D 190x125mm (7.5"x5")	6H23D7.5x5 £402.00	H23DANG7.5x5 £202.00	H23DNOZZ7.5x5 £202.00	H23DSTOP7.5x5 £68.00	H23DCLIP7.5x5 £68.00
H23D 200x125mm (8"x5")	6H23D8x5 £379.00	H23DANG8x5 £189.00	H23DNOZZ8x5 £189.00	H23DSTOP8x5 £64.00	H23DCLIP8x5 £64.00
H38 150x125mm (6"x5")	6H386x5 £288.00	H38ANG6x5 £144.00	H38NOZZ6x5 £144.00	H38STOP6x5 £49.00	H38CLIP6x5 £49.00
H38 157x180mm (6.25"x7")	6H386.25x7 £320.00	H38ANG6.25x7 £160.00	H38NOZZ6.25x7 £160.00	H38STOP6.25x7 £55.00	H38CLIP6.25x7 £55.00
H38 292x125mm (11.5"x5")	6H3811.5x5 £524.00	H38ANG11.5x5 £262.00	H38NOZZ11.5x5 £262.00	H38STOP11.5x5 £88.00	H38CLIP11.5x5 £88.00
H44 180x125mm (7"x5")	6H447x5 £402.00	H44ANG7x5 £202.00	H44NOZZ7x5 £202.00	H44STOP7x5 £68.00	H44CLIP7x5 £68.00
H44 215x150mm (8.5"x6")	6H448.5x6 £460.00	H44ANG8.5x6 £231.00	H44NOZZ8.5x6 £231.00	H44STOP8.5x6 £77.00	H44CLIP8.5x6 £77.00
H44 230x157mm (9"x6.25")	6H449x6.25 £482.00	H44ANG9x6.25 £242.00	H44NOZZ9x6.25 £242.00	H44STOP9x6.25 £82.00	H44CLIP9x6.25 £82.00
H46 150x115mm (6"x4.5")	6H466x4.5 £271.00	H46ANG6x4.5 £137.00	H46NOZZ6x4.5 £137.00	H46STOP6x4.5 £46.00	H46CLIP6x4.5 £46.00
H46 150x125mm (6"x5")	6H466x5 £273.00	H46ANG6x5 £137.00	H46NOZZ6x5 £137.00	H46STOP6x5 £46.00	H46CLIP6x5 £46.00
H46 180x125mm (7"x5")	6H466x5 £409.00	H46ANG6x5 £206.00	H46NOZZ6x5 £206.00	H46STOP6x5 £69.00	H46CLIP6x5 £69.00
H46 190x125mm (7.5"x5")	6H467.5x5 £419.00	H46ANG7.5x5 £209.00	H46NOZZ7.5x5 £209.00	H46STOP7.5x5 £71.00	H46CLIP7.5x5 £71.00
H46 215x157mm (8.5"x6.25")	6H468.5x6.25 £448.00	H46ANG8.5x6.25 £224.00	H46NOZZ8.5x6.25 £224.00	H46STOP8.5x6.25 £75.00	H46CLIP8.5x6.25 £75.00



Moulded & Deep OG continued					
Description	1829mm (6')	Angles	Nozzle	Stopends	Union Clip
H46S 100x75mm (4"x3")	6H46S4x3 £291.00	H46SANG4x3 £146.00	H46SNOZZ4x3 £146.00	H46SSTOP4x3 £49.00	HH46CLIP4x3 £49.00
H46D 180x155mm (7"x6")	6H46D7x6 £342.00	H46DANG7x6 £171.00	H46DNOZZ7x6 £171.00	H46DSTOP7x6 £59.00	H46DCLIP7x6 £59.00
H46D 200x115mm (8"x4.5")	6H46D8x4.5 £453.00	H46DANG8x4.5 £228.00	H46DNOZZ8x4.5 £228.00	H46DSTOP8x4.5 £77.00	H46DCLIP8x4.5 £77.00
H48 230x150mm (9"x6")	6H489x6 £482.00	H48ANG9x6 £242.00	H48NOZZ9x6 £242.00	H48STOP9x6 £82.00	H48CLIP9x6 £82.00
H77 185x125mm (7.25"x5")	6H77.25x5 £457.00	H77ANG7.25x5 £229.00	H77NOZZ7.25x5 £229.00	H77STOP7.25x5 £77.00	H77CLIP7.25x5 £77.00
H77 200x133mm (8"x5.25")	6H778.5x5.25 £471.00	H77ANG8x5.25 £237.00	H77NOZZ8x5.25 £237.00	H77STOP8x5.25 £80.00	H77CLIP8x5.25 £80.00
H101 140x120mm (5.5"x4.75")	6H1015.5x4.75 £342.00	H101ANG5.5x4.75 £171.00	H101NOZZ5.5x4.75 £171.00	H101STOP5.5x4.75 £59.00	H101CLIP5.5x4.75 £59.00
H102 180x125mm (7"x5")	6H1027x5 £449.00	H102ANG7x5 £226.00	H102NOZZ7x5 £226.00	H102STOP7x5 £75.00	H102CLIP7x5 £75.00
Box Gutter Socket and Spigot					
Description	1829mm (6')	Angles	Nozzle	Stopends	Union Clip
H25 100x100mm (4"x4")	6H254x4 £264.00	H25ANG4x4 £131.00	H25NOZZ4x4 £131.00	H25STOP4x4 £44.00	H25CLIP4x4 £44.00
H25 125x100mm (5"x4")	6H255x4 £275.00	H25ANG5x4 £139.00	H25NOZZ5x4 £139.00	H25STOP5x4 £46.00	H25CLIP5x4 £46.00
H25 150x75mm (6"x3")	6H256x3 £302.00	H25ANG6x3 £151.00	H25NOZZ6x3 £151.00	H25STOP6x3 £51.00	H25CLIP6x3 £51.00
H25 150x100mm (6"x4")	6H256x4 £302.00	H25ANG6x4 £151.00	H25NOZZ6x4 £151.00	H25STOP6x4 £51.00	H25CLIP6x4 £51.00
H25 150x150mm (6"x6")	6H256x6 £399.00	H25ANG6x6 £200.00	H25NOZZ6x6 £200.00	H25STOP6x6 £68.00	H25CLIP6x6 £68.00
H25 200x200mm (8"x8")	6H258x8 £526.00	H25ANG8x8 £264.00	H25NOZZ8x8 £264.00	H25STOP8x8 £89.00	H25CLIP8x8 £89.00
H25S 115x150 (4.5"x6")	6H25S4.5x6 £399.00	H25SANG4.5x6 £200.00	H25SNOZZ4.5x6 £200.00	H25SSTOP4.5x6 £68.00	H25SCLIP4.5x6 £68.00
H25S 150x150 (6"x6")	6H25S6x6 £446.00	H25SANG6x6 £222.00	H25SNOZZ6x6 £222.00	H25SSTOP6x6 £75.00	H25SCLIP6x6 £75.00
H25S 200x180 (8"x7")	6H25S8x7 £499.00	H25SANG8x7 £249.00	H25SNOZZ8x7 £249.00	H25SSTOP8x7 £84.00	H25SCLIP8x7 £84.00
H25S 160x130x115mm(6"x4") (Ornamental Front)	6H25S £328.00	H25SANG £164.00	H25SNOZZ £164.00	H25SSTOP £55.00	H25SCLIP £55.00

Brackets available to suit all profiles on request



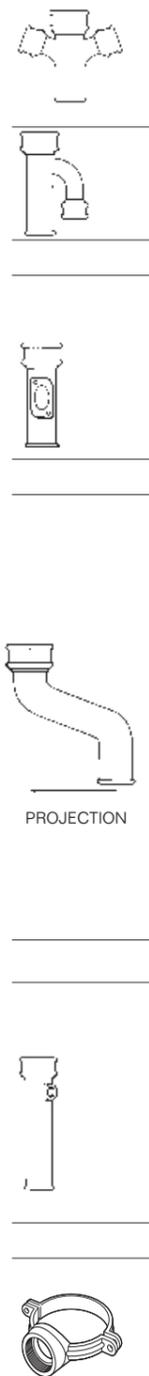
Boundary Wall & Valley					
Description	1829mm (6')	Angles	Nozzle	Stopends	Union Clip
H28 190x150mm with 140mm Sole (7.5"x6")	6H287.5x6 £522.00	H28ANG7.5x6 £262.00	H28NOZZ7.5x6 £262.00	H28STOP7.5x6 £88.00	H28CLIP7.5x6 £88.00
H28 305x125mm with 200mm Sole (12"x5")	6H2812x5 £560.00	H28ANG12x5 £280.00	H28NOZZ12x5 £280.00	H28STOP12x5 £95.00	H28CLIP12x5 £95.00
H35 380x125mm with 125mm Sole (15"x5")	6H3515x5 £589.00	H35ANG15x5 £295.00	H35NOZZ15x5 £295.00	H35STOP15x5 £99.00	H35CLIP15x5 £99.00
Radius (Curved) Gutter					
Description	1829mm (6')	Angles	Nozzle	Stopends	Union Clip
Various patterns available to suit specified radius in 1m lengths	POA	POA	POA	POA	POA

Note: embellishments e.g. Lions Head, Rose etc available to special order - details upon request.



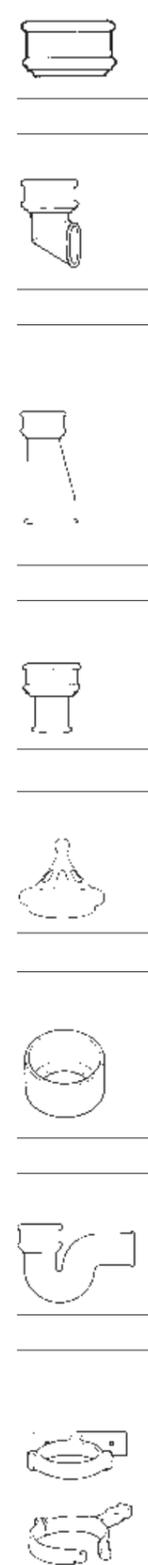
Soil Pipes with Ears						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
1829mm (6') Pipe Eared	S2001E £84.13	S2501E £90.53	S3001E £90.53	S35001E £113.47	S4001E £113.47	S6001E £229.67
1219mm (4') Pipe Eared	S2004E £78.97	S2504E £86.18	S3004E £86.18	S35004E £106.00	S4004E £106.00	S6004E £204.38
914mm (3') Pipe Eared	S2003E £68.18	S2503E £73.35	S3003E £73.35	S35003E £91.73	S4003E £91.73	S6003E £190.74
610mm (2') Pipe Eared	S2002E £68.18	S2502E £73.35	S3002E £73.35	S35002E £91.73	S4002E £91.73	S6002E £190.74
1829mm (6') Pipe Double Socket Eared	S2001DE £111.55	S2501DE £116.32	S3001DE £116.32	S35001DE £151.88	S4001DE £151.88	S6001DE £312.67
Soil Pipes without Ears						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
1829mm (6') Pipe Plain	S2001 £79.65	S2501 £85.67	S3001 £85.67	S35001 £108.57	S4001 £108.57	S6001 £208.60
1219mm (4') Pipe Plain	S2004 £65.80	S2504 £70.23	S3004 £70.23	S35004 £86.92	S4004 £86.92	S6004 £181.97
914mm (3') Pipe Plain	S2003 £52.83	S2503 £56.30	S3003 £56.30	S35003 £69.58	S4003 £69.58	S6003 £164.57
610mm (2') Pipe Plain	S2002 £52.83	S2502 £56.30	S3002 £56.30	S35002 £69.58	S4002 £69.58	S6002 £164.57
1829mm (6') Pipe Double Socket Plain	S2001D £110.30	S2501D £113.83	S3001D £113.83	S35001D £135.53	S4001D £135.53	S6001D £270.85
Bends						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
Bend 92.5°	S2020 £39.80	S2520 £48.18	S3020 £48.18	S3520 £59.15	S4020 £59.15	S6020 £98.90
Bend 112.5°	S2021 £39.80	S2521 £48.18	S3021 £48.18	S3521 £59.15	S4021 £59.15	S6021 £98.90
Bend 135°	S2022 £39.80	S2522 £48.18	S3022 £48.18	S3522 £59.15	S4022 £59.15	S6022 £98.90
Bend with door 92.5°	S2020D £98.57	S2520D £106.88	S3020D £106.88	S3520D £121.48	S4020D £121.48	S6020D £161.83
Bend with door 112.5°	S2021D £98.57	S2521D £106.88	S3021D £106.88	S3521D £121.48	S4021D £121.48	S6021D £161.83
Bend with door 135°	S2022D £98.57	S2522D £106.88	S3022D £106.88	S3522D £121.48	S4022D £121.48	S6022D £161.83
Branches						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
Branch Equal 92.5°	S2030 £59.57	S2530 £64.55	S3030 £64.55	S3530 £100.23	S4030 £100.23	S6030 £164.18
Branch Equal 112.5°	S2031 £59.57	S2531 £64.55	S3031 £64.55	S3531 £100.23	S4031 £100.23	S6031 £164.18
Branch Equal 135°	S2032 £59.57	S2532 £64.55	S3032 £64.55	S3532 £100.23	S4032 £100.23	S6032 £164.18
Branch Unequal: all degrees		S2534 £64.55	S3034 £64.55	S3534 £100.23	S4034 £100.23	S6034 £164.18
Branch Equal with door: all degrees	S2030D £113.18	S2530D £121.20	S3030D £121.20	S3530D £151.42	S4030D £151.42	S6030D £222.88
Branch Unequal with door: all degrees		S2534D £121.20	S3034D £121.20	S3534D £151.42	S4034D £151.42	S6034D £222.88
Double Branch Equal: all degrees	S2056 £128.72	S2556 £128.72	S3056 £128.72	S3556 £168.42	S4056 £168.42	S6056 £283.97

Doors available: left hand, right hand or Heel (back)



Branches continued						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
Double Branch Unequal: all degrees		S2557 £128.72	S3057 £128.72	S3557 £168.42	S4057 £168.42	S6057 £283.97
Anti-Syphon Branch					S4039 £103.50	
Access Pipe						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
Access Pipe with oval door	S2010 £83.82	S2510 £83.82	S3010 £83.82	S3510 £91.47	S4010 £91.47	S6010 £148.42
Offsets						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
75mm (3") projection	S2040 £59.80	S2540 £59.80	S3040 £59.80	S3540 £87.43	S4040 £87.43	S6040 £153.92
115mm (4.5") projection	S2041 £59.80	S2541 £59.80	S3041 £59.80	S3541 £87.43	S4041 £87.43	S6041 £153.92
150mm (6") projection	S2042 £59.80	S2542 £59.80	S3042 £59.80	S3542 £87.43	S4042 £87.43	S6042 £153.92
230mm (9") projection	S2043 £68.73	S2543 £68.73	S3043 £68.73	S3543 £97.03	S4043 £97.03	S6043 £175.83
305mm (12") projection	S2044 £76.95	S2544 £76.95	S3044 £76.95	S3544 £108.68	S4044 £108.68	S6044 £197.93
380mm (15") projection	S2045 £104.00	S2545 £104.00	S3045 £104.00	S3545 £158.23	S4045 £158.23	S6045 £250.98
457mm (18") projection	S2046 £124.62	S2546 £124.62	S3046 £124.62	S3546 £183.15	S4046 £183.15	S6046 £259.17
533mm (21") projection	S2047 £145.27	S2547 £145.27	S3047 £145.27	S3547 £219.80	S4047 £219.80	S6047 £267.73
610mm (24") projection	S2048 £160.35	S2548 £160.35	S3048 £160.35	S3548 £242.60	S4048 £242.60	S6048 £313.02
Bossed Pipe						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
610mm o/all: 1.25"					S4081 £133.50	
610mm o/all: 1.5"					S4082 £133.50	
610mm o/all: 2"					S4083 £133.50	
Cost of extra bosses					S4084 £32.82	
Strap on Boss						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
2" bspt					S4092 £60.20	

Doors available; left hand, right hand or back



Loose Sockets						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
Loose Socket Plain	S2050 £23.55	S2550 £23.55	S3050 £23.55	S3550 £24.92	S4050 £24.92	S6050 £33.97
Loose Socket Eared	S2050E £26.43	S2550E £26.43	S3050E £26.43	S3550E £29.73	S4050E £29.73	S6050E £56.07
Shoes						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
Shoe Plain	S2051 £47.67	S2551 £47.67	S3051 £47.67	S3551 £64.25	S4051 £64.25	S6051 £118.68
Shoe Eared	S2051E £52.65	S2551E £52.65	S3051E £52.65	S3551E £68.90	S4051E £68.90	S6051E £140.85
Expanding Piece						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
75 x 50mm (3 x 2") spigot large end			S3052 £50.50			
100 x 50mm (4 x 2") spigot large end					S4052 £70.47	
100 x 75mm (4 x 3") spigot large end					S4053 £70.47	
150 x 100mm (6 x 4") spigot large end						S6052 £144.12
Diminishing Piece						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
75 x 65mm (3 x 2.5") spigot small end			S3054 £70.47			
100 x 90mm (4 x 3.5") spigot small end					SD4054 £86.88	
Cowl						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
100mm (4") Chinaman's hat (to fit socket)					S4055 £84.37	
Socket Reducer						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
75 x 50mm (3 x 2")			S3086 £18.65			
100 x 50mm (4 x 2")					S4086 £24.38	
100 x 75mm (4 x 3")					S4087 £24.38	
P Trap						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
P Trap	S2096 £76.57	S2596 £76.57	S3096 £76.57	S3596 £92.97	S4096 £92.97	S6096 £218.57
Holderbat						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
Holderbat - Screw to Wall	S2060 £34.37	S2560 £34.37	S3060 £34.37	S3560 £38.40	S4060 £38.40	S6060 £89.53
Build in	S2061 £29.38	S2561 £29.38	S3061 £29.38	S3561 £32.41	S4061 £32.41	S6061 £83.90

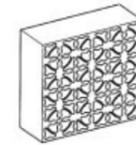


Please see page 21 for styles of earbands available in standard range.

(a,b,c,d,e,f,g and h represents various styles.)



Blank End						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
Blank End	S2070 £19.45	S2570 £19.45	S3070 £19.45	S3570 £24.38	S4070 £24.38	S6070 £48.80
Ornamental Earband						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
Ornamental Earband	S2062 £79.80	S2562 £79.80	S3062 £79.80	S3562 £83.03	S4062 £83.03	S6062 £83.03
Extra for Ears						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
Loose Ears	S2065 £20.42	S2565 £20.42	S3065 £20.42	S3565 £23.38	S4065 £23.38	S6065 £30.13
Extra for ears fitted to an unspecified item	S2065F £26.80	S2565F £28.43	S3065F £28.43	S3565F £30.13	S4065F £30.13	S6065F £36.77
Loose Door						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
Loose Door	S2069 £13.78	S2569 £14.75	S3069 £14.75	S3569 £16.07	S4069 £16.07	S6069 £25.13
Rubber Gasket						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
Rubber Gasket to suit above door	S2069G £4.30	S2569G £6.02	S3069G £6.02	S3569G £8.40	S4069G £8.40	S6069G £15.22
Set Screws						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
Set Screws: per pair	SCREW £2.30	SCREW £2.30	SCREW £2.30	SCREW £2.30	SCREW £2.30	SCREW £2.30
Wooden Bobbin						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
Wooden Bobbin 30mm	WBOB £1.20	WBOB £1.20	WBOB £1.20	WBOB £1.20	WBOB £1.20	WBOB £1.20
Pipe Nails						
Description	50mm (2")	65mm (2.5")	75mm (3")	90mm (3.5")	100mm (4")	150mm (6")
Pipe Nails 75mm or 100mm			PN3 £0.50		PN4 £0.60	
Gaskin						
Description						
White Gaskin (per metre)						GASKIN £1.85
Lead Ingot						
Description						
Lead Ingot 8kg						LEAD POA
PC4AF						
Description						
Fosroc Caulking Compound 3.125kg						PC4AF £148.00



Ornamental Air Bricks		
Description	Size (mm)	65mm (2.5")
Ornamental Air Brick 9"x 3"	230 x 75 x 75	£59.50
Ornamental Air Brick 9"x 6"	230 x 150 x 75	AB9x6 £62.50
Ornamental Air Brick 9"x 9"	230 x 230 x 75	AB9x9 £69.50
Ornamental Air Brick 9"x 9" (Horse Shoe with Horse's head)	230 x 230 x 75	ABHS9x9 £69.50
Hit and Miss F02080-300-AFC	9"x 3"	£37.54
Hit and Miss F02080-310-AFC	9"x 6"	£44.47
Hit and Miss F02080-320-AFC	9"x 9"	£49.09
Louvre F02080-200-AFC	9"x 3"	£38.70
Louvre F02080-210-AFC	9"x 6"	£43.89
Louvre F02080-220-AFC	9"x 9"	£47.36
School Board F02080-100-AFC	9"x 3"	£38.70
School Board F02080-110-AFC	9"x 6"	£45.05
School Board F02080-120-AFC	9"x 9"	£48.51

Skylight Windows		
Description	Size (mm)	65mm (2.5")
Skylight Window 16" x 24"	Opening 400 x 605, depth 87 overall 586 x 870	SKY 16x24 £183.15
Skylight Window 16" x 30"	Opening 400 x 750, depth 87 overall 586 x 1035	SKY 16x24 £204.49

ancillaries & special items for Cast Iron

ancillaries & special items for Cast Iron

SCREWED TO WALL HOLDERBATS

Size	Part No
2"	RB100/A
3"	RB100/D
4"	RB100/F
6"	RB100/N
8"	RB100/R

PIPE CLIP TAPPED M10/M12/M16

Size	Part No
2"	RB101/A
3"	RB101/D
4"	RB101/F
6"	RB101/N
8"	RB101/R

ANGLE BRACKETS

Size	Part No
Made to measure	RB102

HANGING BRACKETS

Size	Part No
2"	RB103/A
3"	RB103/D
4"	RB103/F
6"	RB103/N

BUILD IN HOLDERBATS TO SUIT SOIL PIPE

Size	Part No
2"	RB104/A
3"	RB104/D
4"	RB104/F
6"	RB104/N

SCREWED TO WALL HOLDERBATS TO SUIT SOCKET OF SOIL PIPE

Size	Part No
2"	RB106/A
2 1/2"	RB106/B
3"	RB106/D
4"	RB106/F
6"	RB106/N

PIPE CLIPS DRAIN / RAINWATER TAPPED

Size	Part No
2"	RB107/A (100mm ø) or 250mm M10/M12
3"	RB107/D (100mm ø) or 250mm M10/M12
4"	RB107/F (110mm ø) or 250mm M10/M12
6"	RB107/N (170mm ø) or 250mm M10/M12
8"	RB107/R (220mm ø) or 300mm M12/M16
9"	RB107/T (250mm ø) or 300mm M16

SCREWED TO WALL HOLDERBATS TO SUIT RAINWATER PIPE

Size	Part No
2"	RB108/A
2 1/2"	RB108/B
3"	RB108/D
4"	RB108/F
6"	RB108/N

DOUBLE WEIGHT SUPPORT BRACKETS

Size	Part No
2"	RB110/A
3"	RB110/D
4"	RB110/F
6"	RB110/N

BRACKETS FOR COUPLING

Size	Part No
2"	RB113/A
3"	RB113/D
4"	RB113/F
6"	RB113/N

SCREWED TO WALL HOLDERBATS

Size	Part No
2"	RB114/A
3"	RB114/D
4"	RB114/F
6"	RB114/N

PIPE CLIP WITH SPIKE

Size	Part No
2"	RB115/A
2 1/2"	RB115/B
3"	RB115/D
4"	RB115/F
6"	RB115/N

PIPE CLIP WITH SCREWED TO WALL ADJUSTABLE STAY

Size	Part No
2"	RB116/A
2 1/2"	RB116/B
3"	RB116/D
4"	RB116/F
6"	RB116/N

FIXING PLATES TAPPED M10/M12/M16

Part No
RB201

TEE KEYS

Part No
RB202

STURTS ONLY

Size	Part No
12 1/2"	RB203

Other lengths to order

UNDERSTAY

Part No
RB204

DRIVE BRACKET HALF ROUND

Size	Part No
4"	RB301/F
4 1/2"	RB301/G
5"	RB301/K
6"	RB301/N

DRIVE BRACKET OG

Size	Part No
4"	RB302/F
4 1/2"	RB302/G
5"	RB302/K

DRIVE BRACKET DOUBLE BEADED

Size	Part No
4"	RB303/F
4 1/2"	RB303/G
5"	RB303/K

BRACKET HALF ROUND DRIVE WITH UNDERSTAY

Size	Part No
4"	RB304/F
4 1/2"	RB304/G
5"	RB304/K
6"	RB304/N

BRACKET OG DRIVE WITH UNDERSTAY

Size	Part No
4"	RB305/F
4 1/2"	RB305/G
5"	RB305/K

REPAIR BRACKET HALF ROUND

Size	Part No
4"	RB401/F
4 1/2"	RB401/G
5"	RB401/K
6"	RB401/N

FASCIA BRACKET OG

Size	Part No
4"	RB402/F
4 1/2"	RB402/G
5"	RB402/K

FASCIA BRACKET DEEP HALF ROUND

Size	Part No
4"x3"	RB403/J
5"x3"	RB403/L

FASCIA BRACKET MOULDED No.46

Size	Part No
4"x3"	RB404/J
5"x4"	RB404/M

FASCIA BRACKET FOR NOTTS OG

Size	Part No
4 1/2"	RB406

FASCIA BRACKET FOR BOX GUTTER

Size	Part No
4"x3"	RB407/J
5"x4"	RB407/M
6"x4"	RB407/P

NORWICH CITY COUNCIL REPAIR FASCIA BRACKET HALF ROUND

Size	Part No
4"	RB408/F
4 1/2"	RB408/G
5"	RB408/K
6"	RB408/N

FASCIA BRACKET HALF ROUND

Size	Part No
4"	RB409/F
4 1/2"	RB409/G
5"	RB409/K
6"	RB409/N

RISE AND FALL TOP FIX RAFTER HALF ROUND BRACKET

Size	Part No
4"	RB500/F
4 1/2"	RB500/G
5"	RB500/K
6"	RB500/N

RISE AND FALL SIDE FIX RAFTER HALF ROUND BRACKET

Size	Part No
4"	RB501/F
4 1/2"	RB501/G
5"	RB501/K
6"	RB501/N

RISE AND FALL FASCIA BRACKET HALF ROUND

Size	Part No
4"	RB502/F
4 1/2"	RB502/G
5"	RB502/K
6"	RB502/N

RISE AND FALL FASCIA BRACKET HALF ROUND

Size	Part No
4"	RB503/F
4 1/2"	RB503/G
5"	RB503/K
6"	RB503/N

RISE AND FALL DRIVE BRACKET HALF ROUND

Size	Part No
4"	RB504/F
4 1/2"	RB504/G
5"	RB504/K
6"	RB504/N

RISE AND FALL DRIVE BRACKET HALF ROUND WITH UNDERSTAY

Size	Part No
4"	RB505/F
4 1/2"	RB505/G
5"	RB505/K
6"	RB505/N

RISE AND FALL DRIVE BRACKET OG

Size	Part No
4"	RB506/F
4 1/2"	RB506/G
5"	RB506/K

RISE AND FALL DRIVE BRACKET MOULDED No.46

Size	Part No
4"x3"	RB507/J
5"x4"	RB507/M

RISE & FALL BRACKET MOULDED GUTTER

Size	Part No
5"x4"	RB508/M

RISE & FALL DRIVE BRACKET NOTTS OG GUTTER

Size	Part No
4 1/2"	RB509/

RISE & FALL DRIVE BRACKET DOUBLE BEADED

Size	Part No
4"	RB510/F
4 1/2"	RB510/G
5"	RB510/K

RISE & FALL DRIVE BRACKET DEEP HALF ROUND

Size	Part No
4"x3"	RB511/J
5"x3"	RB511/L

TOP FIX RAFTER BRACKET OG

Size	Part No
4"	RB512/F
4 1/2"	RB512/G
5"	RB512/K

TOP FIX RAFTER BRACKET HALF ROUND

Size	Part No
4"	RB513/F
4 1/2"	RB513/G
5"	RB513/K
6"	RB513/N

RISE & FALL TOP FIX NOTTS OG

Size	Part No
4 1/2"	RB514

SIDE/TOP FIX RAFTER TO SUIT BEADED GUTTER HALF ROUND

Size	Part No
4"	RB516/F
4 1/2"	RB516/G
5"	RB516/K

SIDE/TOP FIX RAFTER TO SUIT MOULDED No.46

Size	Part No
4"x3"	RB517/J
5"x4"	RB517/M

SIDE FIX RAFTER BRACKET HALF RND

Size	Part No
4"	RB518/F
4 1/2"	RB518/G
5"	RB518/K
6"	RB518/N

SIDE FIX RAFTER BRACKET DEEP HALF ROUND

Size	Part No
4"x3"	RB519/J
5"x3"	RB519/L

SIDE/TOP FIX BOX BRACKET

Size	Part No
4"	RB520/F
4 1/2"	RB520/G
5"	RB520/K

GUTTER PROFILES - Available for all Brackets from RB301 to RB520

Plain Half Round		Beaded Half Round		Deep Half Round		Box	
Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric
4"	100	4"	100	4"x3"	100x75	4"x3"	100x75
4 1/2"	115	4 1/2"	115	5"x3"	125x75		
5"	125	5"	125				

OG		No 46		Notts OG	
Imperial	Metric	Imperial	Metric	Imperial	Metric
4"	100	4"x3"	100x75	4 1/2"	115x70
4 1/2"	112	5"x4"	125x70		
5"	125				

EARBANDS - Available in sizes 4" x 3", 5" x 4" or 6" x 4"

PLAIN EARBAND	ORNAMENTAL EARBAND - A	ORNAMENTAL EARBAND - B

FIXINGS

A - M6 x 25mm Gutter Nut & Bolt	B - 30 x 16mm Mushroom Headed Roofing Screw	C - 10 x 100mm Coach Screw

Key
 A Part No DC503 D Part No PN3
 B Part No DC502 E Part No PN4
 C Part No CS1

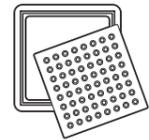
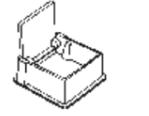
PROTECTING

Pipe Balloon for Round Pipe

Size	Part No
65mm	BAL25
75mm	BAL3
100mm	BAL4



SEALING / JOINTING



Boxes		
Description	Size (mm)	
Double Triangular Surface Box (Loop Detector Box)	opening 150 x 150, depth 150 overall 256 x 256	DTSBOX £59.30
Stop Tap Box (Toby Cover)	opening 118 x 143, depth 87 overall 169 x 197	STB6x6 £49.52
Stop Tap Box (Toby Cover)	opening 105 x 143, depth 87 overall 137 x 137	STB4.5x2.5 £20.40
Gulley Grate		
Description	Size (mm)	
Gulley Grate 3"	135 x 160	GG3 £9.20
Square Grate & Frame 6" x 6"	150 x 150	SQFG6 £19.52
Square Grate & Frame 7" x 7"	180 x 180	SQFG7 £21.83
Square Grate & Frame 8" x 8"	200 x 200	SQFG8 £25.05
Square Grate & Frame 9" x 9"	230 x 230	SQFG9 £26.87
Square Grate & Frame 10" x 10"	250 x 250	SQFG10 £29.22
Square Grate & Frame 12" x 12"	305 x 305	SQFG12 £34.15

Private

Our customer service is second to none and we pride ourselves on being able to assist with your enquiry from first contact through to delivery and beyond. Whether you need expert advice on gutter sizes, radiator outputs or just need to chat about your project we can help.

Tuscan can supply you with traditional building products to make your selfbuild, refurb or renovation plans become a reality.



Commercial

Our individual service is both extensive and tailored to suit your requirements. We are able to provide estimates from drawing "take offs", radiator sizing and heat loss calculations with our own "Heatscale" program.

In addition we are also able to supply sample sections/pieces of many of our gutters and radiators, please contact our sales office or visit our website for further information.

Radiators

For period properties and traditional styles, cast iron radiators from Tuscan Foundry will provide the perfect heating solution.

We offer several types to suit all properties from elegant Nouveau (as shown) with it's scrolled relief pattern, to the school type looks of the Victorian.

All radiators are copies of original designs and can be supplied with a full range of traditional accessories.

A total of 11 radiator models are supplied in various heights and depths to suit every household and commercial application.

Tuscan's expertise in heating solutions also extends to "Heatscale" our online program for calculating room heat requirements.



Valves & Accessories

Tuscan's range of valves and accessories complement its selection of cast-iron radiators. All radiators require a valve and lockshield; the actual valve, to allow and adjust the flow of water into the radiator, and a lockshield at the other end, to regulate the flow and isolate the radiator should any maintenance be required.

Empire, Union, Traditional and Easiclean are solid-brass radiator valves and lockshields. Reproduced from originals of the 1920s and 1930s, they are engineered and hand-made in the UK to an extremely high standard. Most valves and accessories are also available in chrome and nickel finishes.



LUMEN ROOFLIGHT



The Lumen Rooflight is a masterpiece of style and engineering.

Tuscan Foundry Products recognise the importance of manufacturing heritage products which replicate original designs but provide design flexibility for both period and contemporary environments.

Manufactured in Britain, the Lumen Rooflight is unique in its approach by satisfying the needs of the heritage building sector and providing the highest specification of glazing by incorporating Pilkington Activ - the world's first self cleaning glass.

The Lumen Rooflight is a conservation product and therefore different from other modern-day rooflights. It has been especially designed and crafted to replicate a traditional Victorian design which is unobtrusive and sympathetic to the external architecture of the building. The choice of bespoke mechanisms for the interior aspect of the rooflight means the Lumen

Rooflight will compliment both traditional and contemporary interiors.

With the recent influx of barn and loft conversions it is imperative that conservation rooflights deliver every aspect required by heritage organisations. The Lumen Rooflight has already achieved this kudos. Its attention to detail and fine lines of steel have met the requirements of a number of prestigious heritage projects overseen by English Heritage.

Especially designed to sit flush, the Lumen Rooflight has a low profile that doesn't detract from the character of the building. Where an increased amount of light is needed, the Lumen Rooflight has developed its capabilities. The Lumen Extra Light's interlocking design reduces the amount of visible steel between each casement and multiplies the

amount of ventilation and light.

This advancement has taken the Lumen Rooflight to the forefront of the industry with its design and functionality creating endless opportunities for its application. The Lumen Rooflight complies with BS6375:Part1:2004 for air permeability, water tightness and wind resistance, making it one of the most desirable and energy efficient conservation rooflights available.

The Lumen Rooflight benefits from a high level of customer service provided by its manufacturers, Tuscan Foundry Products, who have a history of working with metal that stretches back to 1893. Designed and manufactured in Britain, the Lumen Rooflight boasts a next day delivery. Delivery for bespoke sizes to suit individual project requirements can be achieved within a month.



The importance of maintaining and preserving cast iron rainwater systems

In England, rainwater systems have been used to drain roofs at least since 1066, when a rainwater pipe was erected at the Tower of London to protect its newly whitewashed walls. It is also known that the ready availability of recycled lead following the dissolution of the monasteries in 1539 promoted a sudden increase in their use, as illustrated by the number of hopper heads displaying heraldic designs and dates from that period. Nevertheless the use of gutters and down-pipes remained rare until the 18th century, and most houses relied on broad-spreading roofs to shed their water clear of the walls.

Cast iron rainwater goods were introduced in the late 18th century as a mass-produced alternative to lead. As well as being easier to produce, the material enabled eaves gutters to be installed much more simply, since lead could only be used in this location as a lining for timber. By the mid 19th century cast iron predominated, although lead continued to be used for down-pipes and ornate hoppers in the various revivals of gothic and medieval

styles of architecture, particularly on churches. As a result, most old buildings now have cast iron rainwater systems which should be preserved and regularly maintained. Not only are they part of a building's heritage and character, but they also keep water out of its fabric, and they are therefore vital to its structural integrity.

Cast iron pipes, gutters and their fittings have a highly distinctive appearance due to the texture of the material, its thickness, and the quality of the cast components. Preserving and maintaining an original rainwater system contributes immensely to the external character of a property. Decorative features like hopper heads, or rainwater heads as they are also known, can add further interest and a unique silhouette to a building, especially when accompanied by other ornate castings like decorative ear bands. Cast iron hopper heads also often provide an indication of the building's age and are especially important to the architectural value of a property. During the Victorian and Edwardian times, they were

commonly used to put a stamp on a property by displaying either a date, coat of arms, an emblem or initials in imitation of the lead hopper heads that preceded them, as well as providing an effective way of collecting rainwater.

Maintenance and repairs

Neglecting a property's rainwater disposal can cause serious structural deterioration especially with old buildings. Regular inspection could prevent the need to spend hundreds of pounds at a later date on dealing with a serious outbreak of dry rot in timber roof trusses or a flooded basement or ground floor because of a blocked drain. Forgetting to remove the debris from hopper heads, flat roofs and drainage channels and also not removing the vegetation from behind down-pipes or ignoring leaky gutters have become major causes of concern for conservation organisations. The Society for the Protection of Ancient Buildings (SPAB) recently launched a National Gutters Day, to encourage property owners to inspect their gutters and keep buildings free from damp and structural damage.

Cast iron is a strong material which, if correctly designed and maintained, can be one of the most durable elements of the building fabric. However, if the paint layer which protects it is neglected, the underlying metal will rust and eventually fail, particularly if poorly detailed. Moulded gutters supported by a stringcourse are particularly vulnerable as the stringcourse catches the moisture and two faces of the gutter are in permanent contact with damp brickwork.

Traditionally, cast iron was protected by applying two top coats of lead-based oil paints over a coat of primer, but these traditional paint systems dry slowly and are highly toxic. Today, there is a wide choice of paint systems, each offering different advantages. Modern alkyd-based oil paints are the most common, applied in two coats over a zinc-rich primer. (Three top coats may be necessary in more aggressive environments such as coastal areas.) When repainting, make sure that all areas of paint that are in poor condition are properly covered; patches of missing paint should be primed and re-primed before painting. Particular care should be taken when dismantling sections of guttering because cast iron is a brittle material, and joints must not be forced.

Where rainwater goods have been badly neglected it may be necessary to remove all the paintwork and rust by carefully shot blasting the surface to strip it back to the bare metal. Only then can the condition of the metalwork be examined to determine the level of decay. Shot blasting is a highly skilled job as too strong a pressure can cause fractures and the cast iron will crack. In the case of the most important historic buildings it may be a requirement of listed building consent to have paint analysis undertaken first, so that this important aspect of the building's history is not lost. In any event it is always advisable to at least record the colour of the old paint so it can be restored back to its original colour.



Without proper maintenance, damp and decay caused by blocked, sagging and damaged gutters can lead to expensive repair bills and the loss of historic fabric.



Replacement parts

If a section of the rainwater system is beyond repair, the SPAB suggests that replacements should usually be made of the same material as the original. However, finding a replacement for a particular profile can be difficult, as cast iron has been used since the 19th century for gutters, down-pipes and rainwater systems and, over this period many different foundries, few of which still remain. Sometimes the only solution is to make replicas.

Recently, Tuscan Foundry Products restored an original hopper head in Walthamstow High Street, London and copied its original Victorian design to produce a small number of

replica cast iron hopper heads for a heritage economic regeneration scheme. The reinstatement of the hopper heads was an integral part of putting back unique historic features to Walthamstow High Street and the original hopper head had so much historical value it was hand delivered by the Heritage Projects Officer to the factory.

The hopper head had suffered so much weather damage that it had to be shot blasted back to the bare metal. On examination it was found that the hopper head was still intact and could be repaired and also replicated. To ensure that the details were perfectly matched, the decorative pattern of the original was hand carved into wood to create the moulds for the replica cast iron



A reproduction of a typical late 19th century hopper with cast iron parapet gutters and simple ear bands on the down-pipe below

hopper heads. Both the original and replica hopper heads were then painted to protect them from rust.

In sensitive situations where historical gutter cannot be removed, it may be necessary to copy a pattern in situ by making an accurate template. This was the case with the recent restoration of the rainwater system on Brighton and Hove Museum, where the guttering was an unusual profile.

Installation

Joints in cast iron rainwater pipes do not need to be sealed because the upper pipe runs inside the socket of the lower pipe, preventing leaks, and an unsealed pipe will be easier to maintain and repair in the future. Generally, all that is required is three lead wedges placed between the socket and the spigot to centralise and secure it, although many installers choose to seal the void using low modulus silicone sealant.

Gutters, on the other hand, must be sealed. In the past the joints were caulked using red lead putty, but this has now been replaced by low modulus silicone sealants. The sealant is spread evenly within the gutter socket before placing the gutter spigot into the socket and bolting them together with stainless steel or zinc-plated screws. The nuts should be lightly tightened onto washers to avoid damaging the paint. Finally, any excess sealant should be removed.

Typical fixings for an eared rainwater pipe are large headed pipe nails but

alternatively, rawl bolts or coach screws can be used. Whichever type of fixing is used, it is important that it is made of stainless steel, as rusting steel buried in masonry can cause the masonry to crack. Unearred pipes can be fixed by drive-in spike, built-in holderbat or ear-bands.

Before fixing the system to old fabric, it is important to survey the structure carefully, including any roof timbers or fascia boards affected, as well as the masonry below. As with any drainage system, cast iron gutters and pipes must be fixed to sound material. Bear in mind that this material may also have to support the additional weight of a potential build up of ice and snow in the winter months. If the system has leaked in the past, it may be necessary to carry out local repairs to make the structure watertight and to ensure that the fixing points are sound before proceeding. Repairs to historic structures will require skills and materials to match those used historically, and in most cases will require the services of a contractor who is familiar with the use of lime mortar repairs.

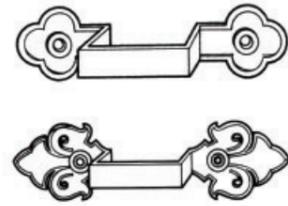
Once the rainwater system or part of has been installed, it should be water tested using a hose or watering can to check there are no leaks and the walls are dry.

New Cast Iron Rainwater Systems

Where the original rainwater system of an historic building has been replaced by an inappropriate modern



A spiked gutter bracket in galvanised mild steel.



Two designs for decorative ear brackets - in this case for square down-pipes.

system in, for example, grey plastic or extruded aluminium, it may be appropriate to introduce a system which is more in keeping with its character. Traditionally detailed designs in cast iron or cast aluminium will often be the most appropriate solution for 19th and early 20th century buildings, and in many cases they may also be appropriate for older buildings.



Cast iron is particularly well suited especially for historic buildings and is a popular choice for all drainage systems. Not only does it have many design possibilities, it also offers strength, durability and longevity.

However, there will be cases where only lead will suffice, particularly on pre-19th century buildings and churches, and in certain cases it may even be preferable to have no system at all. Thatched buildings in particular almost invariably rely on broad eaves and careful ground treatment below to drain the water away. Each case will have to be judged on its own merits.

The positioning of new down-pipes on an old building is usually determined by the location of the ground level gullies, although manufactured or bespoke swan necks and bends allow more flexibility. The gutters should be laid to a shallow fall to the down-pipes which should be vertical. Ideally, all

rainwater goods should always project clear of the fabric so that when leaks or blockages occur, the rainwater does not come into contact with it.

The paint applied to new cast iron rainwater systems at the foundry is only a transit finish so the system will need to be carefully painted to avoid rusting before it is installed with any bare or cut metal primed accordingly. Once the rainwater goods are dry they can be installed.

It is easy to forget about your rainwater system after replacing or repairing failed sections but it does need to be maintained and inspected at least twice a year. Even though cast iron rainwater goods have a superb life span, both new and old examples still need to be looked after, especially for their historical value. However, it does not matter whether the property is a hundred years old or brand new, the message is the same: 'maintaining your

rainwater system contributes to the external appearance of the building as well as keeping it free from damp and structural damage'.

Recommended reading

Keith Blackney, *Cleaning Historic Ironwork for Painting and Painting Historic Ironwork*, Cathedral Communications Limited, 2002, – see www.buildingconservation.com/articles.htm

www.maintainyourbuilding.org.uk (an SPAB website)

English Heritage Research Transactions Vol 1: *Metals*, James and James (Science Publishers) Ltd, London 1998





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