

July 2013

Aluminium, Cast Iron & Steel Rainwater Systems

Featuring Harmer LCC Soil & Waste Systems

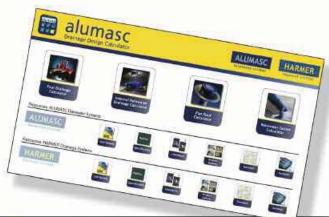


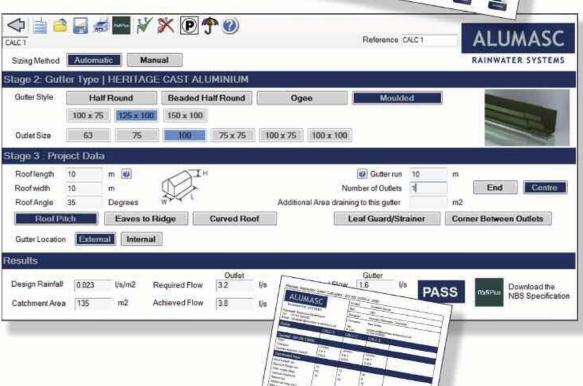
Maintaining a Flow of Information

www.alumascrainwater.co.uk

The Alumasc Rainwater website provides a wealth of information on all aspects of rainwater solutions, including gutters, downpipes and associated fittings.

Also included are FAQs, file downloads for NBS specification clauses, COSHH information and a CAD library.









Drainage Design Calculator

Architects and building service engineers can now design and quantify all their Rainwater Drainage requirements using Alumasc's dedicated design software.

Key Features

- Eaves drainage gutter sizing and pipe calculator for cast and contemporary gutter types
- Category 2 and 3 Flat Roof Drainage Calculator linked to local rainfall data
- Hyperlinks to product literature, DWF files and application specific NBS Specification Clauses

Technical Support

Alumasc Rainwater products are backed-up by comprehensive technical literature and by hands-on project support starting with technical and design advice, and extending through site installation to recommendation of appropriate maintenance regimes. Implementation is led by the Alumasc Rainwater Manager appointed to the project.

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Alumasc - An Introduction

Alumasc Exterior Building Products is part of the Alumasc Group plc. The Group has over 800 employees, generating turnover of around £110 million. The aim is to focus on high quality, environmentally responsible building products within the construction arena in order to deliver first class customer service, long-term solutions and lasting relationships.



About Alumasc

Alumasc Exterior Building Products (Alumasc) is a leading supplier of premium products and systems for specification. The Company has been a major force in the UK construction industry for 70 years, during which time Alumasc products and systems have been used on some of Europe's most prestigious buildings.

Alumasc ensures a high quality of product specification and installation, delivering risk-free, zero-defect solutions. The Company's commitment to making ongoing improvements is demonstrated through its accreditation to the ISO 14001: 2004 Environmental Management Standard.

By pursuing sustainable building products, systems and manufacturing processes, Alumasc aims to offer specifers a wide choice of design alternatives, with long-term peace of mind. Recognised brands such as Harmer, Apex, Derbigum, Euroroof, ZinCo, Hydrotech, Firestone, Armaseam and M.R., together with Alumasc's well-known architectural rainwater range have been independently certified, and in some cases have a lifespan in excess of 60 years or for the life of the building.

Services and Support

Alumasc leads the way in the field of construction product and system manufacture and the delivery of proven solutions. This success is founded on four key areas:

Premium Products

A constantly evolving range of quality proven, world class products and systems, fully accredited to UK, European and North American Standards.

Technical Support

Comprehensive data for specification and use of all products and systems is available in published form, and on the company website. This is backed up by proactive support on a project basis, led by specialist area managers and using the latest CAD and calculation technology.

Approved Stockists

Delivery of Alumasc products is controlled through a network of approved suppliers. This allows close control over all matters to ensure first class customer service.

Warranties

All Alumasc products come with a company backed assurance as to their quality, life expectancy and suitability for purpose ensuring specifiers and end users long-term peace of mind.







Quality and Sustainability

In addition to complying with environmental legislation, Alumasc is committed to developing its own measures to limit the adverse effects of its activities on the environment. To this end, Alumasc operates an environmental policy that fully integrates all aspects of company activities.



Quality

ISO 9001: 2008

Alumasc operates a quality management system which is independently audited to ISO 9001: 2008. The ISO 9001 framework governs the management of many aspects of Alumasc support services, manufacturing and transport operations. Alumasc extends quality management to its network of approved installers for single source accountability and peace of mind.



Sustainability

Alumasc actively pursues sustainability in the full range of products it offers and, with its partners and its suppliers, is committed to putting consideration for the built and wider environment at the core of all aspects of current business and future development.

ISO 14001: 2004

Alumasc's manufacturing sites at St Helens, Merseyside and at Burton Latimer, Northamptonshire are audited to the ISO 14001:2004 Environmental Management Standard. Alumasc is committed to achieving improvements across all of its operating sites, not only as a good neighbour to the surroundings of manufacturing plants, but in the responsible sourcing of raw materials and monitoring of the impact on the environment as a whole.



BREEAM Standards

BREEAM points, as a framework for analysis and scoring, allow easy comparison of the relative merits of different construction types and also comparisons between different construction product groups. The BREEAM points system promotes the use of materials with a proven sustainable message and allows designers to differentiate between products with true ecological credentials and those not achieving the benchmark.

Indicative ratings for building materials given in the BRE Green Guide to Specification also allows designers to choose those products or construction methods that will be most beneficial in contributing to a high BREEAM points score.

Aluminium rainwater goods and fascia soffit systems are part of the range of high scoring Alumasc solutions. Promotion of these responsibly sourced materials brings clarity to the specification process thus achieving the desired effect of minimising the environmental impact of the construction process.

Testing and Certification

Applicable Standards

BS EN 12056-3

Gravity drainage systems inside buildings, Part 3 Roof drainage layout and calculation.

BS EN 8530 (Formerly BS 2997) Specification for traditional-style half round, beaded half round, victorian ogee and moulded aluminium rainwater systems.

BS EN 755

Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles.

BS EN 1706:2010

Aluminium and aluminium alloys -Castings - Chemical composition and mechanical properties.

BS EN 1559

Founding - Technical conditions of delivery.

BS EN 1462:2004

Brackets for eaves gutters - Requirements and testing.

BS EN 12206-1:2004

Paints and varnishes - Coating of aluminium and aluminium alloys for architectural purposes.

BS 460: 2002

Cast iron rainwater goods. Specification.

BS 437: 2008

Specification for cast iron drain pipes, fittings and their joints for socketed and socketless systems.

British Board of Agrément Certificate No. 86/1671 Alumasc Rainwater Systems

RIBA Assessed CPD Seminar Rainwater Disposal from Pitched Roofs





Alumasc Manufacturing and Support Services

Alumasc is one of the UK's leading manufacturers of aluminium and cast iron products for the construction industry. Our expertise in aluminium casting, extrusion and fabrication, as well as iron castings, stems from a proven track record accumulated over 60 years, enabling the provision of unrivalled technical support for designers, specifiers and contractors.

Manufacturing

Alumasc's UK casting and fabrication facilities employ both traditional and cutting edge production methods.
Alumasc aluminium rainwater goods are manufactured and independently assessed at the company's Burton Latimer site under the ISO 14001:2004 Environmental Management Standard. This not only ensures that upstream production processes have been monitored for their environmental impact, but that due consideration is taken for all aspects of packaging, transport and disposal, in order to deliver as sustainable a rainwater product as practicable.

Cast iron and steel rainwater goods are manufactured in dedicated factories abroad.

Performance

Alumasc rainwater solutions are designed to give optimum performance over their lifespan. In every aspect of material choice or detailing decision the aim is to produce premium, fit for purpose products and systems. This ethos has resulted in Alumasc being associated with innovative projects that have led the way in construction performance, stood the test of time and demonstrated good design.

Materials

Alumasc offer a variety of aluminium finishes to the specifier. Whether you are seeking to replicate a period cast iron or contemporary appearance, Alumasc has the solution. Traditional cast aluminium gutter profiles and complementary downpipes can be finished to replicate cast iron to special order - ideal for period refurbishment or where a traditional design is required.

Alumasc's contemporary aluminium rainwater ranges include dry joint extruded and wet joint folded gutter profiles, which can be used in combination with various downpipes to fulfil different functional requirements (eg, high security) and for different visual effects to suit the building context. Products can be supplied in a plain mill finish or in Alumasc's Raincote range of polyester powder coated finishes.

Alumasc's sand cast iron rainwater range combines the best of traditional qualities with modern technology to suit today's construction needs. Innovations include pre-finishing and advanced jointing techniques. Comprehensive components from stock can also be complemented by a made-to-order service.

The Harmer LCC cast iron soil and waste system is made to original imperial dimensions for use in refurbished and historic buildings. The standard finish for all pipes and fittings is factory-dipped bitumen.

Alumasc's steel rainwater system offers a contemporary, eco-friendly and cost effective alternative to uPVC gutters and downpipes.

Support Services

Comprehensive information and advice for specification and use of our rainwater products and systems is provided through our technical literature, website and the Alumasc Technical Services department. This is backed by proactive support on a project-by-project basis, led by specialist Area Managers.

Product Development

Alumasc routinely design, manufacture and patent new rainwater products for the UK and world markets.

Ongoing research and development ensures that our offer comprises high quality, world class products and systems that are fully accredited to UK and European standards.

Development of existing sound products and practices is central to the success of Alumasc and key to the way in which we provide our proven solutions. Equally, the basis for any new and innovative development is grounded in the knowledge and experience Alumasc has of its core manufacturing materials.

Alumasc's commitment to ongoing development and the promotion of best practice is reflected in our CPD programme which keeps the industry abreast of new standards and product solutions.





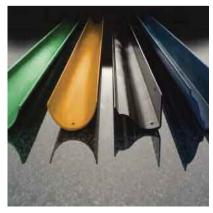




Benefits of Aluminium

Aluminium is a metal with exceptional characteristics, both in respect of its functional performance and sustainable credentials. It has become increasingly important in the construction industry, being used in ever more innovative ways by designers and specifiers.





Aluminium

A 'Green Material'

To be deemed 'green', a material or product should be recyclable, sustainable and versatile. Aluminium has all of these properties and its production is strictly monitored for responsible sourcing of raw materials.

Aluminium has a light weight-to-strength ratio, which means it is strong yet economical. The reduced weight provides benefits in material transportation and application. Aluminium can also be formed in a variety of ways to accommodate off-site fabrication.

Durable and Strong

Aluminium is resistant to corrosion and does not rust. It is weather-proof and is unaffected by the effects of UV rays, ensuring optimal performance over its lifetime.

Mixed with small amounts of other metal to form an alloy, aluminium can provide the strength of steel at only one third of the weight.

Recyclable

Historically, aluminium has proven to be one of the most important materials in successful recycling programs. It offers a high scrap value, widespread consumer acceptance, and enjoys significant industry support.

Most aluminium products are made from 100% recycled scrap. The recycling process does not result in any loss of the materials' basic qualities and properties

Recycled aluminium offers significant energy benefits as remelting used aluminium requires only 5 percent of the energy needed to produce primary metal. As aluminium can be recycled indefinitely it need never be disposed of in landfill.

Versatile

Aluminium and its alloys can be easily formed and shaped by rolling, extrusion, forging and casting, characteristics that reflect the wide choice of form and visual appearance of aluminium in construction applications.

The Benefits at a Glance

- Corrosion resistant
- Lightweight
- Durable and strong
- Formable
- High strength to weight ratio
- Cryogenically strong
- Electrically conductive
- Non-combustible
- Non-magnetic
- Non-sparking
- Non-toxic
- Resilient
- Thermally conductive
- Fully recyclable





Benefits of Cast Iron and Steel

Cast iron, as a building material, has been around for much longer, and advances in technology have ensured that today's products are fully attuned to modern construction needs. Steel is an ideal metal for use as a roof drainage system. It's lighter than Cast Iron and Aluminium, making it easy to handle on site and offering a contemporary finish.



Cast Iron

High Strength

The crystalline structure of cast iron gives the material high strength and robustness. Once installed, cast iron components resist impact damage even in exposed areas, such as shopping centres, carparks and schools.

Durability

Inherent corrosion resistance coupled with a primed and a painted finish ensures that cast iron components will need minimal maintenance during the lifetime of the rainwater installation.

Recyclable

Made with almost 100% recycled scrap, cast iron can be recycled indefinitely, and therefore should not be disposed of in landfill

The Benefits at a Glance

- Corrosion resistant when a protective coat is applied
- Durable and strong
- Impact resistant
- Non-combustible
- Non-toxic
- Fully recyclable



Steel

A 'Green Material'

Steel is a 'green' building material which is recyclable and versatile in its use. It has a high strength to weight ratio which means its strong yet economical and can be used to facilitate faster construction process such as off site fabrication. Steel is 98% recyclable, with recycled steel only requiring 40% of the energy to produce steel from its virgin state.

Durable and Strong

Steel is extremely durable with excellent tensile strength which gives the system robustness throughout its life on the building. It is unaffected by UV rays unlike plastic gutters so they won't colour fade or reduce the integrity of the system.

Life Expectancy

Galvanised steel has a long life expectancy in the excess of 50 years in most rural environments and 20-25 years plus, in urban and costal environments. The longevity is further improved with the polyester powder coating option which is applied directly onto the galvanised finish.

Low Maintenance

Galvanised steel is very durable and therefore needs little maintenance, the zinc coating is inherently resistant to corrosion from the environment . It only requires an occasional washdown to clean any dirt and debris.

The Benefits at a Glance

- Corrosion resistant
- Lightweight
- Durable and strong
- Fully recyclable
- Cost-effective solution
- Minimum environmental impact



Alumasc Aluminium Rainwater Systems - Overview

Alumasc Rainwater Systems in aluminium, combine modern engineering and high performance materials to offer unrivalled choices and solutions for designers associated with fast track newbuild or refurbishment projects.



Traditional Aluminium

Heritage System

A stock range of traditional cast aluminium gutter profiles (half round, beaded half round, beaded deep run, victorian ogee and moulded), and traditional extruded aluminium pipework (round, square or rectangular), all in a choice of sizes and supported by a full range of fittings. Traditional jointing and fixing techniques are ideal for period and restoration projects, in a simple-toinstall lightweight system. Can be finished to replicate cast iron, or with BBA certificated powder coatings in a wide range of colours - combining a striking retro look with the latest in paint technology.

Complementary rainwater heads for downpipes are available to suit. Can be finished to replicate cast iron, or with BBA certificated powder coatings in a wide choice of colours.

Alumasc can also create bespoke solutions to meet individual project requirements.



Contemporary Aluminium

Aqualine Gutter System

An extruded, high capacity gutter system in five alternative styles, each available in a choice of profile sizes. Tailor-made for today's fast track construction programmes in contemporary building design. Innovative secret fix bracketry, all weather 'dry' jointing fully accommodating thermal movement.

GX Gutter System

A pressed gutter system designed for traditional wet jointing on site. Offered in three profiles (joggle, smooth and moulded). High capacity, uncluttered appearance, and very cost-effective.

Flushjoint Downpipe System

A range of extruded round, square and rectangular downpipes with concealed spigots, giving a smooth, clean appearance. High impact resistance and offers excellent rigidity.

Guardian Downpipe System

A range of extruded flush fitting security pipes in a choice of profiles. Guardian pipework has concealed brackets and concealed jointing, providing a high level of security.

All four contemporary aluminium gutter and downpipe systems are available in a choice of BBA certificated powder coatings.

The Aqualine, GX, Flushjoint and Guardian systems are interchangeable. Flushjoint and Guardian downpipes are also compatible with Heritage gutters.

In all cases, Alumasc can tailor designs to meet individual project requirements.



Alumasc Aluminium Rainwater Systems -Overview of Finishes

Alumasc Aluminium Rainwater Systems are available in plain mill finish or in the Raincote range of BBA approved, factory-applied polyester powder coatings.

Traditional & Contemporary **Aluminium Rainwater** Systems: In-House Powder Coatings

Alumasc's in-house powder coating plant gives both the control and the freedom to produce a range of colour finishes to a level not typically available in the construction industry. Utilising the technologies and procedures adopted for its automotive precision castings division, Alumasc benefits from high specification coating techniques that fulfil the rigors of testing prescribed by some of the worlds leading vehicle producers. Finishes of this quality maintain their appearance even when subject to harsh geographical weather conditions.

The aluminium undergoes a series of pretreatments to provide the ideal prepared surface to receive an electrostatically applied polyester powder in the chosen colour. This is then 'baked' and bonded to the fitting in a carefully controlled oven; the complete process is achieved on a continuous line to obtain the best results. The performance of polyester powder coated rainwater systems greatly exceeds that of site painted systems.

Approvals & Quality Control

Polyester powder coating is in accordance with BS EN 12206-1:2004. This refers to the coating of aluminium and aluminium alloys for architectural purposes. In the case of rainwater systems it is accepted that such coating is both decorative and protective. Alumasc systems will certainly be finished to this standard, and will in most cases exceed it.

Along with independent auditing to the ISO 9001:2008 Quality Management Standard, Alumasc maintains BBA certification for the powder coating of its aluminium rainwater goods in respect of longevity of performance and colour fastness - British Board of Agrément Certificate No. 86/1671.



RAL 7012m Basalt Grey Choice of Colour

The standard aluminium Raincote range comprises 26 colours with additional colours with a BS or RAL number available to special order, subject to quantity and cost.

The colours reproduced on this page are for general guidance only.



Please contact Alumasc Technical Services for further information on colour choice and samples.

Alumasc Cast Iron Rainwater/Traditional Soil & Waste Systems - Overview

Alumasc Rainwater Systems in cast iron, combine modern engineering and high performance materials to offer unrivalled choices and solutions for designers associated with fast track newbuild or refurbishment projects.





Cast Iron: Standard

Apex Heritage System

A comprehensive, traditional range of four gutter and three downpipe profiles, all in a variety of sizes, together with associated fittings and accessories. The gutters include a choice of half round, beaded half round, victorian ogee and moulded. The downpipes are circular, square or rectangular.

Fittings and accessories include all the necessary items expected of a truly comprehensive rainwater system, ranging from stopends to extended bracketry, and shoes to hopperheads.

The system is available in a range of 8 standard colour options in a high quality two-pack epoxy primer and top coat finish. By removing the need for on-site pre-installation painting its offers up to 60% saving on time and 30% on cost. It is also available in a factory primed finish.

Cast Iron: Made to Order

Apex Heritage System

No standard product range can hope to satisfy all the stylistic options for new building, nor address the challenges of exact replacement for refurbishment and restoration. Apex Heritage Cast Iron Made to Order is specifically designed to meet these needs.

A range of decorative rainwater heads, for example, are readily available because Alumasc holds the patterns and can produce the items to order. The number of available made-to-order designs increases as additional patterns are created for new commissions.

A variety of different designs is possible for decorative earbelts, and additional enrichments can be incorporated into the rainwater heads where required.

Harmer LCC Cast Iron

A traditional socketed soil and waste pipe and fittings system manufactured to original imperial dimensions, created specifically for use in building refurbishment and historic building contracts where there is a need to faithfully reproduce period detail. This ensures a compatible interchange between old and new pipes and fittings.

An extensive range of fittings and accessories provides great flexibility in installation, while special detailing requirements can be catered for through Alumasc's fabrication and pattern making workshops.

Special welding techniques are also used to fabricate components where the alternative of making a pattern for casting would not be economic.

The standard finish for all pipes and fittings is factory-dipped bitumen.



Alumasc Cast Iron Rainwater/Traditional Soil & Waste Systems - Overview of Finishes

Alumasc Cast Iron Rainwater systems are available in a range of 8 standard colour options to suit tradition heritage projects. Alumasc's in-house paint plant produces a Certified Factory painted high quality two-pack epoxy primer and a top coat finish.

Apex Heritage Cast Iron Rainwater - Painted

The renowned quality of Apex Heritage Cast Iron is available pre-painted on all four gutter profiles (Half Round, Victorian Ogee, Beaded Half Round and Moulded) plus the full range of circular or square / rectangular downpipes with authentic socketed joints.

Now available in 8 standard colours to suit traditional heritage projects, other RAL colours are available on request

The high performance two-pack epoxy primer and a top coat finish is factoryapplied under controlled conditions and has been successfully developed to give a smooth and long lasting finish to the cast iron. The new certified factory painted finish marque guarantees the product has received the fully painted finish. This is certified with approved stickers on the product giving both the client and specifier piece of mind.

By removing the need for on-site preinstallation painting Alumasc's painted cast iron offers the following benefits:

- 60% saving on time, as there is no need to paint several coats on site
- Quicker installation and less disruption on site
- 30% saving on cost as there is no need for extra labour to paint on site
- The painted finish only costs 20% more than the primed finished product
- Durable, even and long lasting finish
- Independent test results conducted on the finish prove excellent resistance to salt, heat and frost









Apex Heritage Cast Iron Rainwater - Primed

A factory primed finish is also available with a one coat oxide primer. This primer will give protection against corrosion during transportation and short-term undercover storage and will provide a suitable surface for additional painting. On site handling and painting are the responsibility of the contractor.

Alumasc recommends that on site further priming coat be applied followed by 1 undercoat and 2 gloss coats of an alkyd paint system. All individual elements should receive the first gloss coats before fixing, and finished with the final gloss coat after the installation is complete. It is advisable to take the paint finish inside collars and within the ends of rainwater pipes to avoid the possibility of rust staining.

Harmer LCC Traditional Cast Iron Soil & Waste Systems

The pipes and fittings are factory-dipped in bitumen in accordance with BS 416. Where gloss painting is required, it is advisable to contact Alumasc technical services on 01744 648400.



Alumasc Steel Rainwater System - Overview and Finishes

The Alumasc Steel Rainwater system offers a contemporary, eco-friendly and cost effective alternative to plastic gutter systems, available in a galvanised finish or a choice of standard colours to suit both commercial and domestic projects.



Steel: Overview

The gutter is available in a choice of four widths in the popular Half Round profile along with connecting round downpipe system in two sizes together with associated fittings and accessories including Rainwater Diverters and unique steel hopper head. The Gutter system provides high flow capacity due to the larger inlet funnels on the outlets.



Steel: Finishes Overview

Standard Colour Finishes

Alumasc steel is available in a plain galvanised finish or in a highly durable and attractive polyester pre-coated black finish.

Galvanised Steel

RAL 9005m Black

The colours reproduced on this page are for general guidance only.

Please contact Alumasc Technical Services for further information on colour choice and samples.

Additional Colour Finishes

Alumasc steel is also available to order in a range of 6 contemporary colours, which are galvanised and then polyester power coated. Additional colours available on request.

RAL 7016m Anthracite Grey

RAL 7037 Dusty Grey

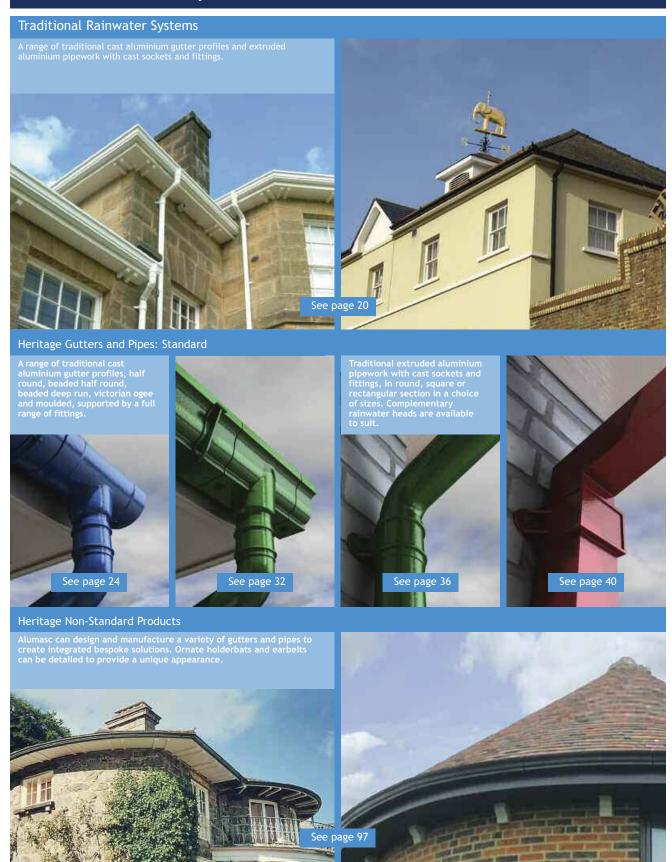
RAL 8004m Copper Brown

RAL 9002m Grey White

RAL 8014m Sepia Brown

Alumasc Aluminium Rainwater Systems - Product Selector

Aluminium Rainwater Systems



Alumasc Aluminium Rainwater Systems - Product Selector



Alumasc Cast Iron Rainwater/Soil & Waste Systems - Product Selector

Cast Iron Rainwater/Soil & Waste Systems

Apex Heritage Rainwater System

A comprehensive range of traditional gutter and downpipe profiles, in various sizes, incorporating all the architectural features required for new, refurbished or restored buildings, but in accord with modern fast track building methods.



Apex Heritage Gutters and Pipes: Standard

Four gutter profiles, half round, beaded half round, victorian ogee and moulded, supported by a full range of fittings and fixtures.

Three downpipe profiles, in round, square and rectangular section in a choice of sizes.

See page 120



Apex Heritage Products: Made to Order

Made to order components extend the choices available with stock items, fully addressing the challenges of exact replacement for refurbishment and restoration projects, as well as satisfying the stylistic options for new building.







Harmer LCC Soil & Waste

Traditional socketed cast iron pipes, fittings and accessories, made to imperial dimensions, and created to faithfully reproduce period detail in refurbishment and historic building contracts. Special detailing requirements can be fabricated in Alumasc's workshops.



Harmer LCC Pipes

Made in various lengths and diameters, they are available with or without ears, or can be double-collared.



Harmer LCC Fittings

Holderbats, loose and slip couplings, socket reducers, variously angled bends, swan necks, diminishing pieces, single and double branches with or without access, bossed pipes, shoes and P traps are all available to create wide-ranging configurations.



Alumasc Steel Rainwater Systems - Product Selector



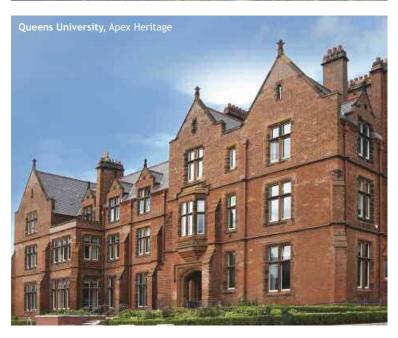
Alumasc Rainwater Systems - Project Gallery

Alumasc aluminium and cast iron rainwater systems offer specifiers functional and stylistically appropriate solutions to rainwater drainage across all styles of building from traditional to contemporary.

Alumasc has a long and successful track record in architectural rainwater design.









Project Listing

Private House, Shrewsbury

■ Broomlands, Tunbridge Wells

Queens University, Belfast

The Lancasters, Londo

Mi-Space, Midsomer Norton

Alumasc Rainwater Systems - Project Gallery

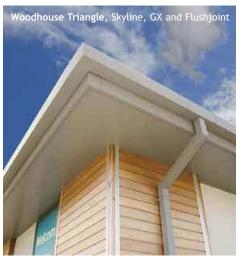












Dject Listing 🔳 Marriotts Walk Shopping Centre, Witney 🔳 St Pancras Station, London 📳 Princesshay Shopping Centre, Exeter 📕 WAterstone Park, Dartford 📳 Woodhouse Triangle Retai

Alumasc Rainwater Systems The Traditional Aluminium Range

This premium, high performance rainwater range features the Heritage cast aluminium system, available as extensive stock components or as non-standard bespoke items.



Traditional Aluminium Rainwater Range - Introduction

Heritage Cast Aluminium is a range of traditional profiles, fittings and accessories in cast aluminium. Designed to provide all the key architectural features appropriate to traditional designed buildings either new build or refurbishment, in a lightweight fully finished product.







Heritage Cast Aluminium Rainwater System - Product Summary



















Heritage Cast Aluminium Rainwater System - Product Summary

Heritage is a comprehensive range of traditional gutter profiles, round, square and rectangular pipes and all associated fittings and accessories. Designed to provide all the essential architectural features appropriate to traditionally designed buildings, the Heritage range is also fully in tune with modern fast track building contracts.

Applications

- Ideal for traditionally designed buildings, in both new build and refurbishment applications
- Can be used as a direct replacement of cast iron
- For both flush and projecting eaves applications

Features & Performance

- 5 gutter and 3 downpipe profiles available in a choice of sizes
- Pipes available in 1, 2 and 3 metre lengths
- Lightweight, durable and noncorrodible
- Life expectancy of aluminium:
 40 years (rural/suburban areas); up
 to 25 years (industrial/marine areas)
- Easy to handle and fix
- BBA approved
- Aluminium is 100% recyclable

Colours & Finishes

- BBA approved polyester powder coatings, factory applied at Alumasc
- 26 standard colours with additional BS or RAL colours available to special order
- Can be supplied to resemble cast iron surface texture (black only)
- Also available in plain mill finish for on-site painting

Manufacture

- UK manufactured by Alumasc
- Gutters and fittings made from commercial LM2 and LM6 grade aluminium alloy
- Gutters are gravity diecast, fittings are pressure diecast and downpipes are extruded aluminium
- Manufactured in accordance with BS 8530 (formerly BS 2997)

Installation & Fixing

- Gutters are wet sealed with bolted joints, with a range of fixing options
- Gutter joints are secured with screws or bolts through integral holes/slots
- Victorian Ogee and Moulded gutters provided with slots in rear for direct fixing
- Brackets and fittings provided with fixing holes where appropriate
- Circular pipe jointing up to 100mm diameter is by separate sockets giving maximum flexibility for installation.
 150mm circular pipes and all square and rectangular pipes have welded on sockets
- Simple fixing to wall by eared sockets or by a choice of pipe clips
- Minimal maintenance requirements



Gutter Profiles & Sizes



Half Round 100mm (4") 113mm (4.5") 125mm (5")



Beaded Half Round

125mm (5")



Beaded Deep Run 113 x 75mm (4.5 x 3")



Victorian Ogee

100mm (4") 113mm (4.5") 125mm (5")



Moulded

100 x 75mm (4 x 3") 125 x 100mm (5 x 4") 150 x 100mm (6 x 4")

Pipe Profiles & Sizes



Circular Pipe

63mm (2.5") 75mm (3") 100mm (4") 150mm (6")



Square Pipe

75 x 75mm (3 x 3") 100 x 100mm (4 x 4")



Rectangular Pipe 100 x 75mm (4 x 3")

Heritage - Half Round Gutters and Fittings

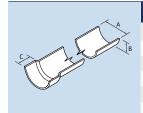


Heritage Half Round cast aluminium gutters are available in 3 sizes and 2 gutter lengths, together with a complete range of fittings. A classic socketed system, which can be finished to replicate cast iron or with BBA certificated powder coatings in a choice of colours.

Notes: All dimensions are in mm unless shown otherwise.

Gutter sizes shown are nominal.

Gutters



Gutter Size	Gutter Length	Α	В	С	Т	Weight (kg)	Product Code
100 (4")	1830mm	108	47	47	4	2.6	HR1/1
113 (4.5")	11	122	52	47	4	4.0	HR2/16
125 (5")	II .	134	56	47	4	4.0	HR3/132
100 (4")	610mm	108	47	47	4	0.9	HR1/153
113 (4.5")	п	122	52	47	4	1.4	HR2/154
125 (5")	11	134	56	47	4	1.4	HR3/155
Note: T = Gutter Thickness (nominal +/- 1mm)							

Union Clips



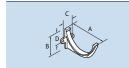
Gutter Size	A	В	Product Code
100	96	46	HR1/11
113	96	46	HR2/26
125	96	46	HR3/148

Stop-Ends



_	1	1	
Gutter Size	Туре	A	Product Code
100	External	51	HR1/13
113	11	51	HR2/28
125	"	51	HR3/150
100	Internal	45	HR1/12
113	п	45	HR2/27
125	11	45	HR3/149

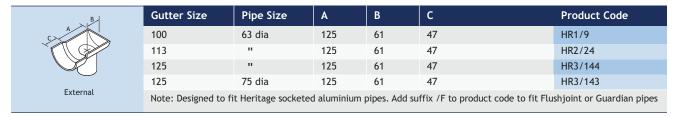
Fascia Brackets



Gutter Size	A	В	С	D	Product Code
100	127	65	38	35	HR1/14
113	140	70	38	40	HR2/29
125	155	85	38	45	HR3/151

Heritage - Half Round Gutters and Fittings

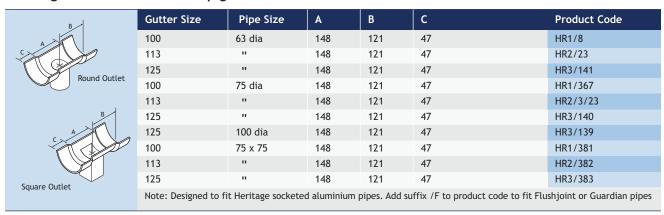
Stop End Outlet - with Socket



Stop End Outlet - with Spigot

	Gutter Size	Pipe Size	A	В	Product Code		
A	100	63 dia	172	64	HR1/10		
	113	11	172	64	HR2/25		
	125	11	172	64	HR3/147		
	125	75 dia	172	64	HR3/146		
Internal	Note: Designed to fit Heritage socketed aluminium pipes. Add suffix /F to product code to fit Flushjoint or Guardian pipes						

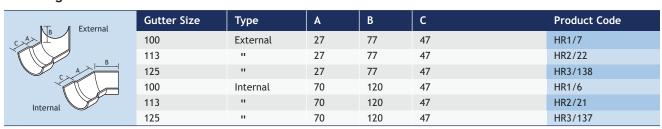
Running Outlet - with Double Spigot Socket



90° Angles

A. LB External	Gutter Size	Туре	A	В	С	Product Code
	100	External	27	77	47	HR1/5
	113	11	27	77	47	HR2/20
	125	11	27	77	47	HR3/136
A B	100	Internal	132	183	47	HR1/4
	113	п	146	197	47	HR2/19
	125	11	157	210	47	HR3/135
Internal						

135° Angles



Heritage - Beaded Half Round Gutters and Fittings



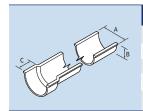
Heritage Beaded Half Round socketed cast aluminium gutters are available in 2 sizes and 2 gutter lengths, together with a complete range of fittings. There is a pronounced feature bead on both lips. Can be finished to replicate cast iron or with BBA certificated powder coatings in a choice of colours.

Notes: Beaded Half Round is an all socketed system and Union Clips are only available by special order.

All dimensions are in mm unless shown otherwise.

Gutter sizes shown are nominal.

Gutters



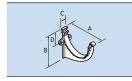
Gutter Size	Gutter Length	A	В	С	Т	Weight (kg)	Product Code
113 (4.5")	1830mm	131	52	47	4	3.0	BHR5/300
125 (5")	11	143	56	47	4	3.0	BHR6/325
113 (4.5")	610mm	131	52	47	4	1.0	BHR5/303
125 (5")	11	143	56	47	4	1.0	BHR6/328
Note: T = Gutter Thickness (nominal +/- 1mm)							

Stop-Ends



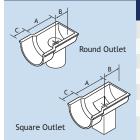
Gutter Size	Туре	A	Product Code
113	External	51	BHR5/306
125	п	51	BHR6/331
113	Internal	45	BHR5/318
125	п	45	BHR6/149

Fascia Brackets



Gutter Size	A	В	С	D	Product Code
113	155	75	38	35	BHR5/315
125	165	79	38	37	BHR6/337

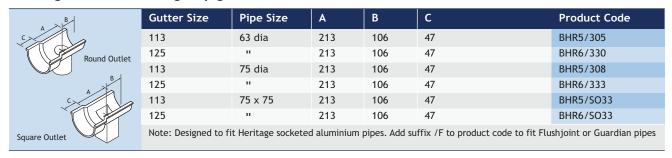
Stop End Outlet - with Socket



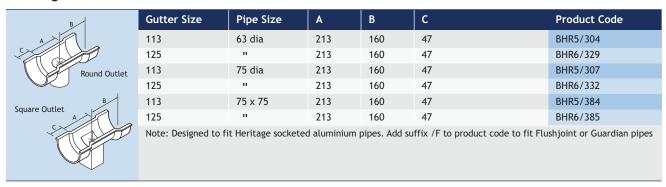
Gutter Size	Pipe Size	A	В	С	Product Code	
113	63 dia	213	106	47	BHR5/RO25SE	
125	"	213	106	47	BHR6/RO25SE	
113	75 dia	213	106	47	BHR5/RO30SE	
125	11	213	106	47	BHR6/RO30SE	
113	75 x 75	213	106	47	BHR5/SO33SE	
125	11	213	106	47	BHR6/SO33SE	
Note: Designed to fit Heritage socketed aluminium pipes. Add suffix /F to product code to fit Flushjoint or Guardian pipes						

Heritage - Beaded Half Round Gutters and Fittings

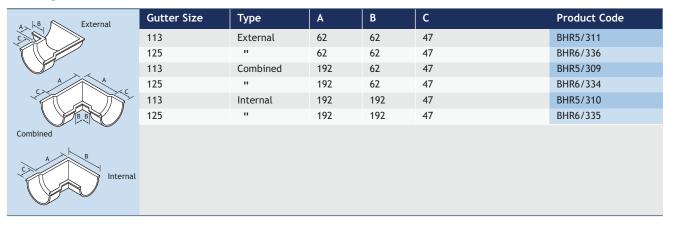
Running Outlet - with Single Spigot/Socket



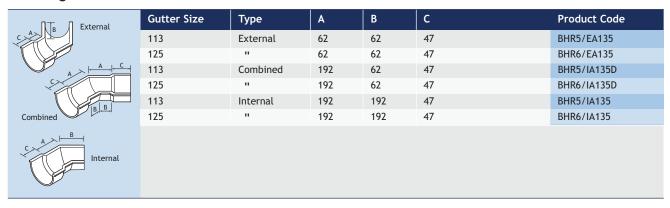
Running Outlet - with Double Socket



90° Angles



135° Angles



Heritage - Beaded Deep Run Gutters and Fittings



Heritage Beaded Deep Run gutters offer high flow capacity in one gutter size.

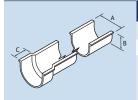
A socketed system, which can be finished to replicate cast iron or with BBA certificated powder coatings in a choice of colours.

Notes: Beaded Deep Run is an all socketed system and Union Clips are only available by special order.

All dimensions are in mm unless shown otherwise.

Gutter sizes shown are nominal.

Gutters



Gutter Size	Gutter Length	Α	В	С	Т	Weight (kg)	Product Code
113 x 75 (4.5" x 3")	1830mm	137	76	47	4	2.6	HR4/243
113 x 75 (4.5" x 3")	610mm	137	76	47	4	0.9	HR4/246

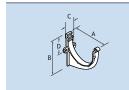
Note: T = Gutter Thickness (nominal +/- 1mm)

Stop-Ends



Gutter Size	Туре	A	Product Code
113 x 75	External	42	HR4/250
113 x 75	Internal	42	HR4/249

Fascia Brackets

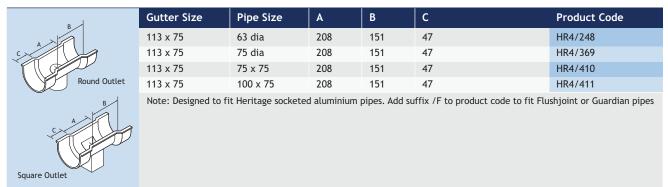


Gutter Size	A	В	С	D	Product Code
113 x 75	155	111	38	55	HR4/251

Note: Each fascia bracket is supplied with a nylon retaining clip

Heritage - Beaded Deep Run Gutters and Fittings

Running Outlet - with Double Socket



90° Angles - with Double Socket

	Gutter Size	Туре	A	В	С	Product Code
	113 x 75	Combined Internal/External	200	55	47	HR4/247
Combined						

135° Angles - with Double Socket

	Gutter Size	Туре	A	В	С	Product Code
C A A C B B	113 x 75	Combined Internal/External	112	55	47	HR4/371
Combined						

Heritage - Victorian Ogee Gutters and Fittings

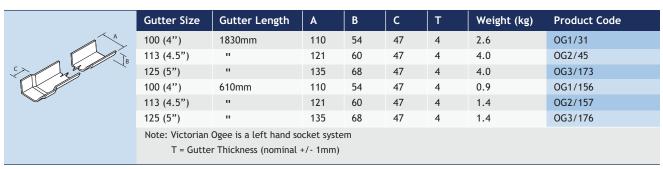


Heritage Victorian Ogee gutters are available in 3 sizes and 2 gutter lengths, together with a complete range of fittings. The traditional Ogee gutter profile is ideal for period applications and restoration. A left-hand socketed system, which can be finished to replicate cast iron or with BBA certificated powder coatings in a choice of colours.

Notes: All dimensions are in mm unless shown otherwise.

Gutter sizes shown are nominal.

Gutters



Union Clips

	Gutter Size	A	В	Product Code
	100	98	47	OG1/41
B	113	98	47	OG2/55
	125	98	47	OG3/184

Stop-Ends

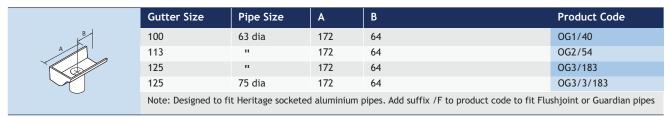
	Gutter Size	Туре	A	Product Code
Right Hand External	100	Right Hand External	51	OG1/43
	113	п	51	OG2/57
	125	п	51	OG3/186
	100	Left Hand Internal	45	OG1/42
Left Hand Internal	113	п	45	OG2/56
	125	11	45	OG3/185

Fascia Brackets

BOOK	Gutter Size	A	В	С	D	Product Code
	100	125	80	38	32	OG1/44
	113	137	85	38	38	OG2/58
V	125	150	92	38	38	OG3/187

Heritage - Victorian Ogee Gutters and Fittings

Left Hand Stop End Outlet - with Spigot



Right Hand Stop End Outlet - with Socket

	Gutter Size	Pipe Size	A	В	С	Product Code
C A B	100	63 dia	126	64	47	OG1/39
	113	"	126	64	47	OG2/53
	125	"	126	64	47	OG3/182
	125	75 dia	126	64	47	OG3/3/182
	Note: Designed to f	it Heritage sockete	d aluminium	pipes. Add s	uffix /F to product code to fit Flo	ushjoint or Guardian pipes

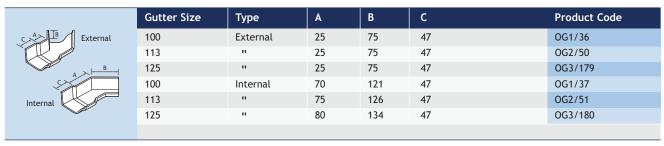
Running Outlet - with Single Spigot/Socket

B	Gutter Size	Pipe Size	Α	В	С	Product Code
A	100	63 dia	194	121	47	OG1/38
	113	11	194	121	47	OG2/52
Round Outlet	125	11	194	121	47	OG3/181
	113	75 dia	194	121	47	OG2/368
	125	п	194	121	47	OG3/3/181
5	100	75 x 75	194	121	47	OG1/386
	113	п	194	121	47	OG2/387
Square Outlet	125	11	194	121	47	OG3/388
oquare outlet	Note: Designed to 1	it Heritage sockete	d aluminium	pipes. Add si	uffix /F to product code to fit Flo	ushjoint or Guardian pipes

90° Angles

	Gutter Size	Туре	A	В	С	Product Code
A External	100	External	25	75	47	OG1/34
	113	ш	25	75	47	OG2/48
	125	п	25	75	47	OG3/177
A B	100	Internal	133	184	47	OG1/35
57	113	п	146	197	47	OG2/49
	125	п	159	210	47	OG3/178
Internal						

135° Angles



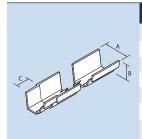
Heritage - Moulded Gutters and Fittings



Heritage Moulded gutters are available in 3 sizes and 2 gutter lengths, together with a complete range of fittings. A socketed system, which can be finished to replicate cast iron or with BBA certificated powder coatings in a choice of colours. Ideal for restoration or contemporary applications.

Notes: All dimensions are in mm unless shown otherwise. Gutter sizes shown are nominal.

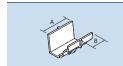
Gutters



Gutter Size	Gutter Length	Α	В	С	Т	Weight (kg)	Product Code
100 x 75 (4" x 3")	1830mm	108	76	50	4	4.0	MG2/217
125 x 100 (5" x 4")	11	140	102	50	4	5.4	MG1/196
150 x 100 (6" x 4")	11	162	102	50	4	5.6	MG3/259
100 x 75 (4" x 3")	610mm	108	76	50	4	1.4	MG2/220
125 x 100 (5" x 4")	11	140	102	50	4	1.8	MG1/199
150 x 100 (6" x 4")	11	162	102	50	4	1.9	MG3/262

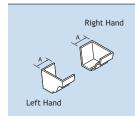
Note: 100×75 and 125×100 moulded gutters are left hand spigot. 150×100 moulded gutter is right hand spigot T = Gutter Thickness (nominal +/- 1mm)

Union Clips



Gutter Size	A	В	Product Code
100 x 75	100	46	MG2/231
125 x 100	100	46	MG1/213
150 x 100	100	46	MG3/269

Stop-Ends



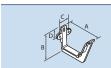
Gutter Size	Туре	A	Product Code
100 x 75	External Left Hand	50	MG2/233
125 x 100	п	50	MG1/215
150 x 100	External Right Hand	50	MG3/271
100 x 75	Internal Right Hand	50	MG2/232
125 x 100	п	50	MG1/214
150 x 100	Internal Left Hand	50	MG3/270

Fixing Supports



Gutter Size	A	В	С	Product Code
100 x 75	70	10	36	MG2/373
125 x 100	94	12	36	MG1/374
150 x 100	94	12	36	MG3/375

Fascia Brackets



Gutter Size	A	В	С	D	Product Code
100 x 75	136	135	38	38	MG2/234
125 x 100	135	136	38	39	MG1/216
150 x 100	162	125	38	39	MG3/268

Note: See footer on page 33.

Heritage - Moulded Gutters and Fittings

Running Outlet - with Single Spigot

	Gutter Size	Pipe Size	A	В	С	Spigot	Product Code
A	100 x 75	63 dia	190	120	50	Left Hand	MG2/225
	125 x 100	11	190	120	50	Left Hand	MG1/205
Round Outlet	150 x 100	11	190	120	50	Right Hand	MG3/267
В.	100 x 75	75 dia	190	120	50	Left Hand	MG2/370
A' N	125 x 100	11	190	120	50	Left Hand	MG1/204
	150 x 100		190	120	50	Right Hand	MG3/266
	125 x 100	100 dia	190	120	50	Left Hand	MG1/253
	150 x 100	11	190	120	50	Right Hand	MG3/265
Square Outlet	100 x 75	75 x 75	190	120	50	Left Hand	MG2/356
	125 x 100	11	190	120	50	Left Hand	MG1/358
Note: Designed to fit	150 x 100	11	190	120	50	Right Hand	MG3/361
Heritage socketed aluminium pipes.	100 x 75	100 x 75	190	120	50	Left Hand	MG2/357
Add suffix /F to	125 x 100	"	190	120	50	Left Hand	MG1/359
product code to fit	150 x 100	ш	190	120	50	Right Hand	MG3/362
Flushjoint or Guardian pipes	125 x 100	100 x 100	190	120	50	Left Hand	MG1/360
eaa. a.aii pipes	150 x 100	11	190	120	50	Right Hand	MG3/363

90° Angles

C A External	Gutter Size	Туре	A	В	С	Spigot	Product Code
B	100 x 75	External	25	75	50	Left Hand	MG2/221
	125 x 100	п	25	75	50	Left Hand	MG1/200
A B	150 x 100	11	25	75	50	Right Hand	MG3/263
	100 x 75	Internal	127	183	50	Left Hand	MG2/222
Internal	125 x 100	п	158	215	50	Left Hand	MG1/201
	150 x 100	"	185	238	50	Right Hand	MG3/264

135° Angles

C A External	Gutter Size	Туре	A	В	С	Spigot	Product Code
A P	100 x 75	External	25	75	50	Left Hand	MG2/223
	125 x 100	п	25	75	50	Left Hand	MG1/202
A B	150 x 100	ш	25	75	50	Right Hand	MG3/272
7/	100 x 75	Internal	62	120	50	Left Hand	MG2/224
Internal	125 x 100	ш	79	130	50	Left Hand	MG1/203
	150 x 100	11	90	144	50	Right Hand	MG3/273

145° Angles

CC A	Gutter Size	Туре	A	В	С	Spigot	Product Code
External	125 x 100	External	25	75	50	Left Hand	MG1/329
A B	150 x 100	11	25	75	50	Right Hand	MG3/333
7	125 x 100	Internal	97	47	50	Left Hand	MG1/330
Internal	150 x 100	"	118	68	50	Right Hand	MG3/334

150° Angles

C A	Gutter Size	Туре	A	В	С	Spigot	Product Code
External	125 x 100	External	25	75	50	Left Hand	MG1/331
A B	150 x 100	11	25	75	50	Right Hand	MG3/335
5/2	125 x 100	Internal	94	44	50	Left Hand	MG1/332
Internal	150 x 100	11	118	68	50	Right Hand	MG3/336

Heritage - Cast Aluminium Bracketry

Alumasc can provide traditional style Bracketry for all of its standard gutter profiles. Where building detailing dictates, Alumasc can provide bespoke Bracketry to meet individual project requirements.

Universal Brackets

For use with standard Fascia Bracket (purchased separately).

Universal Rafter Arm

6	Туре	Angle	Product Code
	Top Fix	26°	UNI632915
D D	Top Fix	40°	UNI632916
V	Side Fix	26°	UNI632917
	Side Fix	40°	UNI632918

Universal Drive in Rise & Fall

Gutter Size	Product Code
Universal	UNI632919

Traditional 'Old' Style Gutter Brackets

Top Fix Rafter Arm - Half Round

_	Gutter Size	Product Code			
250mm	100	HR1/RB/TF			
	113	HR2/RB/TF			
	125	HR3/RB/TF			
	Note: Supplied with 40° angle of pitch as standard. Other pitches catered for on request - please specify pitch angle required.				

Top Fix Rafter Arm - Beaded Half Round/Deep Run

	Gutter Size	Product Code
250mm	113	BHR5/RB/TF
	125	BHR6/RB/TF
	113 x 75 Deep Run	HR4/RB/TF
	Note: Supplied with 40° angle of pitch as standard. Other pitches catered for on request - please specify pitch angle required.	

Top Fix Rafter Arm - Victorian Ogee

250mm	Gutter Size	Product Code
	100	OG1/RB/TF
	113	OG2/RB/TF
	125	OG3/RB/TF
	Note: Supplied with 40° angle of pitch as standard. Other pitches catered for on request - please specify pitch angle required.	

Top Fix Rafter Arm - Moulded

_	Gutter Size	Product Code
250mm	100 x 75	MG2/RB/TF
	125 x 100	MG1/RB/TF
	150 x 100	MG3/RB/TF
	Note: Supplied with 40° angle of pitch as standard. Other pitches catered for on request - please specify pitch angle required.	

Side Fix Rafter Arm - Half Round

	Gutter Size	Product Code
250mm	100	HR1/RB/SF
	113	HR2/RB/SF
	125	HR3/RB/SF
	Note: Supplied with 40° angle of pitch as standard. Other pitches catered for on request - please specify pitch angle required.	

Side Fix Rafter Arm - Beaded Half Round/Deep Run

	Gutter Size	Product Code
250mm	113	BHR5/RB/SF
	125	BHR6/RB/SF
	113 x 75 Deep Run	HR4/RB/SF
	Note: Supplied with 40° angle of pitch as standard. Other pitches catered for on request - please specify pitch angle required.	

Side Fix Rafter Arm - Victorian Ogee

_	Gutter Size	Product Code
250mm	100	OG1/RB/SF
3	113	OG2/RB/SF
	125	OG3/RB/SF
	Note: Supplied with 40° angle of pitch as standard. Other pitches catered for on request - please specify pitch angle required.	

Side Fix Rafter Arm - Moulded

250mm	Gutter Size	Product Code
	100 x 75	MG2/RB/SF
	125 x 100	MG1/RB/SF
	150 x 100	MG3/RB/SF
	Note: Supplied with 40° angle of pitch as standard. Other pitches catered for on request - please specify pitch angle required.	

Heritage - Cast Aluminium Bracketry

Rise & Fall - Half Round

7	Gutter Size	Product Code
	100	HR1/R&F/ASSY
	113	HR2/R&F/ASSY
350mm	125	HR3/R&F/ASSY
335311111		

Rise & Fall - Victorian Ogee

	Gutter Size	Product Code
	100	OG1/R&F/ASSY
	113	OG2/R&F/ASSY
350mm	125	OG3/R&F/ASSY

Rise & Fall - Beaded Half Round/Deep Run

2	Gutter Size	Product Code
	113	BHR5/R&F/ASSY
	125	BHR6/R&F/ASSY
350mm	113 x 75 Deep Run	HR4/R&F/ASSY
\vee		

Rise & Fall - Moulded

	Gutter Size	Product Code
1	100 x 75	MG2/R&F/ASSY
	125 x 100	MG1/R&F/ASSY
350mm	150 x 100	MG3/R&F/ASSY
330/////		



Bespoke Bracketry

Alumasc can design and manufacture a variety of Bracketry solution for gutters and pipes to create an integrated system solution. Such detailing can often be used to support fascia and soffit configurations.

Ornate holderbats and earbelts can be detailed to provide a unique, distinguished appearance to a rainwater stack.

Where standard fitting dimensions do not suit the project's requirements, Alumasc can fabricate its gutter and pipe Bracketry systems to accommodate building design.

Heritage - Circular Pipes and Fittings

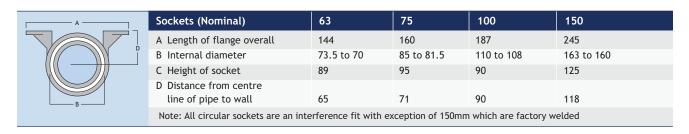


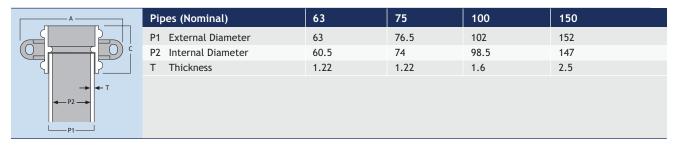
Heritage Circular Pipes are available in 4 pipe diameters and 3 pipe lengths, together with a complete range of fittings. Complementary rainwater heads are also available. Can be factory finished to replicate cast iron or with BBA certificated powder coatings in a range of colours.

Notes: Pipes are extruded sections with cast sockets. The majority of fixings are cast, however certain fittings are fabricated. Contact Alumasc for further details

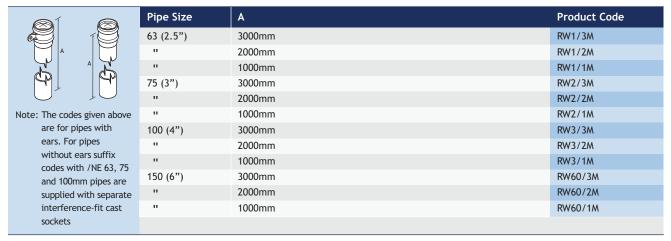
All dimensions are in mm unless shown otherwise.

Pipe sizes shown are nominal.





Pipes - With and Without Ears



Heritage - Circular Pipes and Fittings

Thickwall Pipes - With Ears

	Pipe Size	A	Thickness	Product Code
	63 dia	2000mm	3	RWT/25/2M
A	75 dia	2000mm	3	RWT/30/2M
	100 dia	2000mm	3	RWT/40/2M
	3		or pipes with ears. For pipes without ears suffix codes with /N supplied with separate interference-fit cast sockets	IE

Bends - Without Ears

	Pipe Size	Туре	A	В	С	Product Code
	63 dia	92.5 Degree	89	21	140	RW1/69
A 92.5°	75 dia	п	95	15	146	RW2/83
\$0	100 dia	п	90	80	159	RW3/128
	150 dia	п	125	114	109	RW60/B/92
A 112.5°	63 dia	112.5 Degree	89	32	110	RW1/70
В	75 dia	п	95	26	120	RW2/84
2/0	100 dia	п	90	43	110	RW3/129
	150 dia	п	125	85	144	RW60/B/112
A STORES	63 dia	135 Degree	89	41	107	RW1/165
135°	75 dia	п	95	35	120	RW2/327
ct la	100 dia	п	90	43	110	RW3/328
	150 dia	п	125	85	144	RW60/B/135

Branches - Without Ears

	Pipe Size	Туре	A	В	С	Product Code
A A	63 dia	92.5 Degree	70	200	79	RW1/67
	75 dia	п	70	220	85	RW2/81
	100 dia	п	90	240	108	RW3/126
\(\begin{array}{c} \	150 dia	11	125	315	206	RW60/BR/92
	63 dia	112.5 Degree	70	200	79	RW1/68
в	75 dia	11	70	220	85	RW2/82
_	100 dia	п	65	265	108	RW3/127
	150 dia	11	125	135	206	RW60/BR/112
A	63 dia	135 Degree	70	200	79	RW1/BR/135
B A	75 dia	11	70	220	85	RW2/BR/135
	100 dia	п	90	300	180	RW3/BR/135
) V () 135°	150 dia	11	125	375	245	RW60/BR/135

Round Pipe Sockets - With Ears

A C	Pipe Size	A	В	С	D	Product Code	
B	63 dia	144	89	65	73.5 to 70	RW1/240	
	75 dia	160	95	71	86.5 to 81	RW2/241	
	100 dia	187	90	90	110 to 108	RW3/242	
	150 dia	245	125	118	163 to 160	RW60/PS	
Note: The codes given above are for sockets with ears. For sockets without ears suffix codes with /NE							

Access Pipes - Without Ears

	Pipe Size	A	В	Product Code
AJ 💆	63 dia	95	245	RW1/256
	75 dia	95	245	RW2/257
B	100 dia	95	245	RW3/258
JO	150 dia	125	295	RW60/ACP

Note: See footer on page 36.

Heritage - Circular Pipes and Fittings

112.5° One Part Offsets - Without Ears

	Pipe Size	Offset	Α	В	С	Product Code
	63 dia	75 (3")	70	184	76	RW1/87
	п	113 (4.5")	70	200	114	RW1/163
A 112.5°		150 (6")	70	215	152	RW1/62
B	п	225 (9")	70	247	228	RW1/63
	п	300 (12")	70	279	304	RW1/64
c /	п	375 (15")	70	310	381	RW1/65
	п	450 (18")	70	342	457	RW1/88
Note: Offsets in the	п	525 (21")	70	373	533	RW1/89
150mm Rainwater pipe range are fabricated,	п	600 (24")	70	405	609	RW1/164
cut and mitred.	п	675 (27")	70	436	685	RW1/190
	п	750 (30")	70	468	762	RW1/191
	75 dia	75 (3")	70	187	76	RW2/90
	п	113 (4.5")	70	203	114	RW2/168
	п	150 (6")	70	218	152	RW2/76
	п	225 (9")	70	250	228	RW2/77
	п	300 (12")	70	282	304	RW2/78
	п	375 (15")	70	313	381	RW2/79
	"	450 (18")	70	345	457	RW2/91
	"	525 (21")	70	376	533	RW2/92
	п	600 (24")	70	408	609	RW2/169
	п	675 (27")	70	438	685	RW2/192
	п	750 (30")	70	471	762	RW2/193
	100 dia	75 (3")	69	205	76	RW3/118
	"	113 (4.5")	69	221	114	RW3/171
	п	150 (6")	69	236	152	RW3/119
	11	225 (9")	69	268	228	RW3/120
	п	300 (12")	69	300	304	RW3/121
	п	375 (15")	69	331	381	RW3/122
	п	450 (18")	69	363	457	RW3/123
	11	525 (21")	69	394	533	RW3/124
	п	600 (24")	69	426	609	RW3/172
	11	675 (27")	69	457	685	RW3/194
	11	750 (30")	69	489	762	RW3/195
	150 dia	75 (3")	125	318	76	RW60/PO/3
	11	150 (6")	125	334	152	RW60/PO/6
	11	225 (9")	125	349	228	RW60/PO/9
	11	300 (12")	125	413	304	RW60/PO/12
	п	375 (15")	125	444	381	RW60/PO/15
		450 (18")	125	476	457	RW60/PO/18
	11	525 (21")	125	539	533	RW60/PO/21
	"	600 (24")	125	570	609	RW60/PO/24

112.5° Two Part Offsets - Without Ears

	Pipe Size	Offset	A	В	С	Product Code
	63 dia	225 (9")	70	247	229	RW1/350
112.5°	п	375 (15")	70	310	381	RW1/351
	11	450 (18")	70	342	457	RW1/352
В	11	675 (27")	70	436	685	RW1/353
	11	900 (36")	70	529	914	RW1/354
	75 dia	225 (9")	70	250	229	RW2/343
'	11	375 (15")	70	313	381	RW2/344
	"	450 (18")	70	345	457	RW2/345
	11	675 (27")	70	438	685	RW2/346
	"	900 (36")	70	534	914	RW2/347

Note: See footer on page 39.

Heritage - Circular Pipes and Fittings

Shoes - With and Without Ears

	Pipe Size	A	В	Product Code
	63 dia	55	105	RW1/66
AI PO	75 dia	64	112	RW2/80
1	100 dia	69	135	RW3/125
B 0	150 dia	125	215	RW60/SH
	Note: The codes giv	en above are	e for pipes with ears. For pipes without ears suffix codes with $/1$	NE

Standard Base Clips

	Pipe Size	A	В	С	Product Code
A - A	63 dia	124	100	65	RW1/236
c c	75 dia	137	112	71	RW2/237
	100 dia	163	138	90	RW3/238
63 dia, 75 dia 150 dia	150 dia	255	215	121	RW60/PC
100 dia					

Extended Base Clips

	Pipe Size	A	В	С	Product Code
	63 dia	87	47	279	RW1/364
	75 dia	87	47	285	RW2/365
C	100 dia	87	47	304	RW3/366

Small Base Clips

B B	Pipe Size	A	В	С	Product Code
	63 dia	87	47	74	RW1/SB/PC
	75 dia	87	47	80	RW2/SB/PC
	100 dia	87	47	92	RW3/SB/PC

Flat Back Rainwater Heads

	A B	Pipe Size	Α	В	С	Product Code
		63 dia	194	168	184	RW1/72
		75 dia	194	168	184	RW2/86
		100 dia	194	168	184	RW3/131
		Note: Designed to fi	t Heritage so	cketed alum	inium pipes. Add suffix /F to product code to fit Flu	shjoint or Guardian pipes

Rectangular Rainwater Heads

A B	Pipe Size	A	В	С	Product Code			
	63 dia	258	190	178	RW1/111			
	75 dia	258	190	178	RW2/112			
c	100 dia	258	190	178	RW3/113			
	Note: Designed to fit	Note: Designed to fit Heritage socketed aluminium pipes. Add suffix /F to product code to fit Flushjoint or Guardian pipes						

Ornamental Rainwater Heads

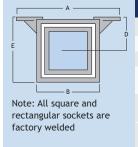
Ī	A B	Pipe Size	A	В	С	Product Code
		63 dia	410	186	178	RWOH/25
		75 dia	410	186	178	RWOH/30
		100 dia	410	186	178	RWOH/40
		Note: Designed to fi	t Heritage so	cketed alum	inium pipes. Add suffix /F to product code to fit Flu	shjoint or Guardian pipes



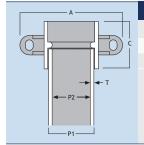
Heritage square and rectangular pipes are available in 3 pipe sizes and 3 pipe lengths, together with a complete range of fittings. A spigot and socket system, which can be finished to replicate cast iron or with BBA certificated powder coatings in a choice of colours. Complementary rainwater heads available to suit.

Notes: Pipes and fittings are made using extruded section with welded-on cast sockets.

All dimensions are in mm unless shown otherwise. Pipe sizes shown are nominal.

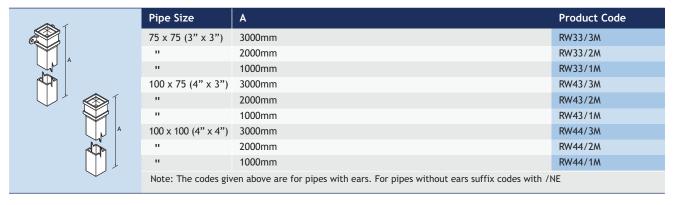


Sockets (Nominal)	75 x 75	100 x 75	100 x 100
A Length of flange overall	162	190	190
B External width	90	122	122
C Height of socket	82	85	85
D Distance from centre line of pipe to wall	52	54	67
E Distance from front of pipe to wall	98	102	130



Pip	es (Nominal)	75 x 75	100 x 75	100 x 100
P1	External Diameter	72 x 72	102 x 76	102 x 102
P2	Internal Diameter	68 x 68	98 x 72	97 x 97
Т	Thickness	2.0	2.0	2.5

Pipes - With and Without Ears



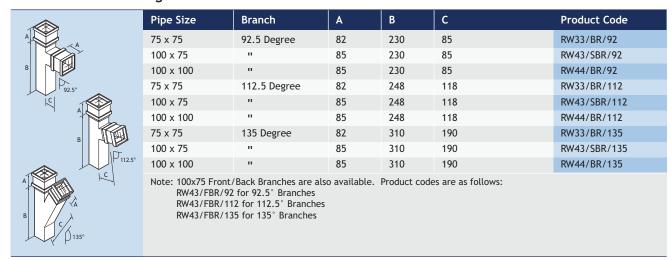
Bends - Front and Back

	Pipe Size	Bend	A	В	С	Product Code
A 92.5°	75 x 75	92.5 Degree	82	67	137	RW33/B/92
В	100 x 75	II .	85	80	150	RW43/FB/92
	100 x 100	п	85	81	151	RW44/B/92
A DECEMBER OF THE PROPERTY OF	75 x 75	112.5 Degree	82	57	127	RW33/B/112
B 112.5°	100 x 75	п	85	66	136	RW43/FB/112
	100 x 100	п	85	66	136	RW44/B/112
	75 x 75	135 Degree	82	47	117	RW33/B/135
135°	100 x 75	п	85	58	128	RW43/FB/135
B	100 x 100	п	85	53	123	RW44/B/135
c						

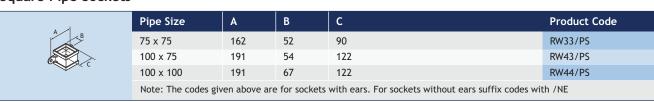
Bends - Left and Right

	Pipe Size	Bend	A	В	С	Product Code
A 92.5°	75 x 75	92.5 Degree	82	67	137	RW33/B/92
В	100 x 75	11	85	80	150	RW43/SB/92
	100 x 100	II .	85	81	151	RW44/B/92
A]	75 x 75	112.5 Degree	82	57	127	RW33/B/112
B 112.5°	100 x 75	11	85	66	136	RW43/SB/112
	100 x 100	11	85	66	136	RW44/B/112
A	75 x 75	135 Degree	82	47	117	RW33/B/135
В 135°	100 x 75	"	85	58	128	RW43/SB/135
	100 x 100	u	85	53	123	RW44/B/135

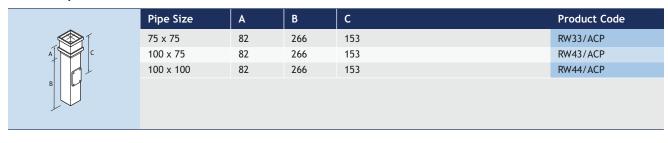
Branches - Left and Right



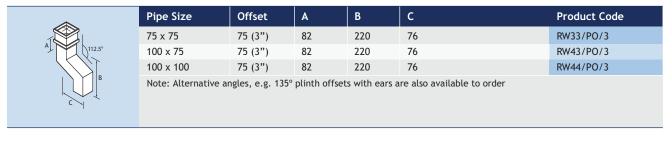
Square Pipe Sockets



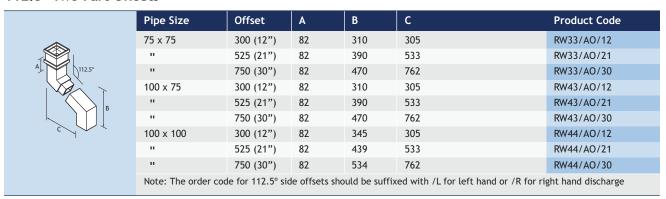
Access Pipes



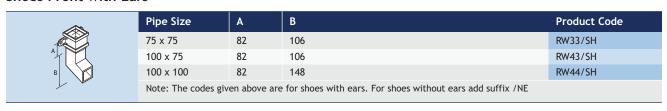
112.5° One Part Offsets



112.5° Two Part Offsets



Shoes Front with Ears



Standard Base Clips

© 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Pipe Size	A	В	С	Product Code
_ <u>A</u>	75 x 75	134	109	52	RW33/PC
c	100 x 75	163	138	54	RW43/PC
	100 x 100	163	138	67	RW44/PC

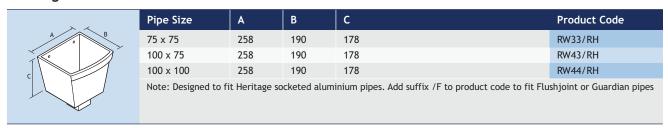
Extended Base Clips

		Pipe Size	A	В	С	Product Code
	B A	75 x 75	87	47	290 max	RW33/EX/PC
		100 x 75	87	47	292 max	RW43/EX/PC
	· ·	100 x 100	87	47	305 max	RW44/EX/PC

Small Base Clips

lo B	<u>0</u> →i	Pipe Size	A	В	С	Product Code
	≓	75 x 75	87	47	78	RW33/SB/PC
c		100 x 75	87	47	80	RW43/SB/PC
		100 x 100	87	47	94	RW44/SB/PC

Rectangular Rainwater Heads

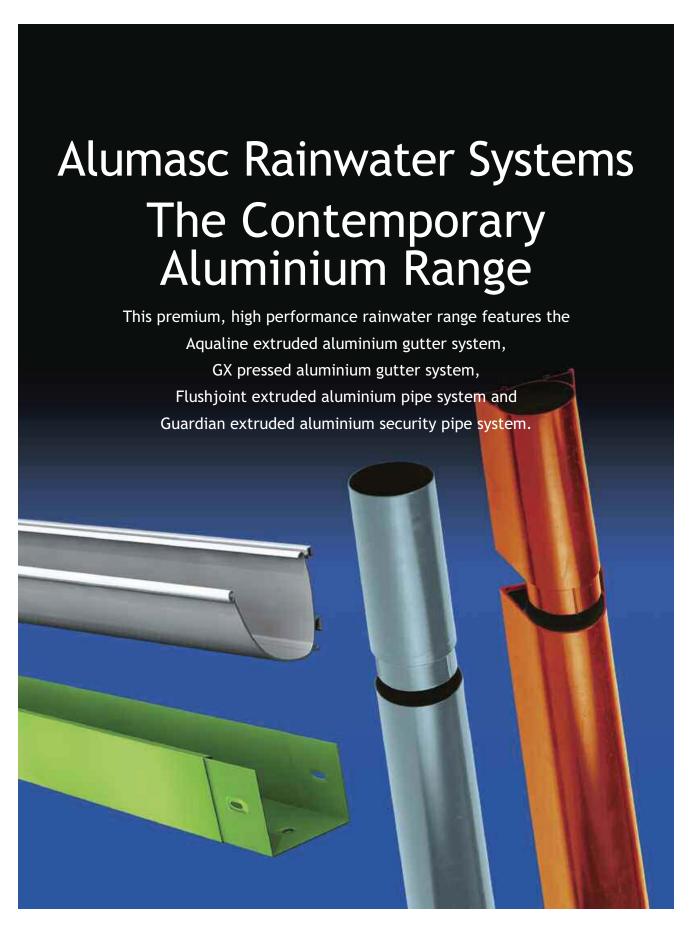


Ornamental Rainwater Heads

> < .	Pipe Size	A	В	С	Product Code
A	75 x 75	410	186	178	RWOH/33
	100 x 75	410	186	178	RWOH/43
	100 x 100	410	186	178	RWOH/44
1	Note: Designed to fi	t Heritage so	cketed alum	inium pipes. Add suffix /F to product code to fit Flu	shjoint or Guardian pipes



Contemporary Aluminium Rainwater Range - Introduction



Contemporary Aluminium Rainwater Range - Introduction

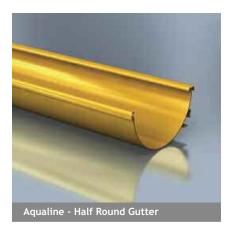
Alumasc's contemporary range of aluminium rainwater systems are ideally suited for new build projects. The range consists of Aqualine Extruded and GX Pressed gutter systems along with corresponding downpipe systems of Flushjoint and the Guardian security downpipe system.





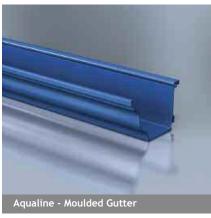


Aqualine - Extruded Aluminium Gutter Systems - Product Summary















Aqualine - Extruded Aluminium Gutter Systems - Product Summary

Aqualine provides a compact and efficient rainwater system that significantly enhances and complements the appearance and architectural character of the building. A choice of 5 standard profiles is available with secret fix bracketry and all weather 'dry' jointing, with full provision for thermal movement.

Applications

- Provides smooth lines and intricate detailing to contemporary designed buildings
- High flow capacity for enhanced performance
- Suited to both flush and projecting eaves applications

Features & Performance

- 5 gutter profiles available in 3 metre lengths, in a choice of sizes
- Designed to fully accommodate thermal movement at every joint
- Lightweight, durable and noncorrodible
- Life expectancy of aluminium: 40 years (rural/suburban areas); up to 25 years (industrial/marine areas)
- Easy to handle and fix
- Aqualine is patented and is also 'Design Registered'
- Aluminium is 100% recyclable

Colours & Finishes

- BBA approved polyester powder coatings, factory applied at Alumasc
- 26 standard colours with additional BS or RAL colours available to special order
- Also available in plain mill finish for on-site painting

Manufacture

- UK manufactured
- Based on aluminium extrusions to BS 1474: 1972, material 6063, T6

Installation & Fixing

- Concealed site fixing and jointing for a clean external appearance
- Once support brackets have been fixed to the building fabric all remaining assembly is by simple clip fix
- Joints are dry sealed using internal unions secured by sliding lock bars
- Minimal maintenance requirements



Gutter Profiles & Sizes



Half Round Gutter

100 x 50mm

120 x 60mm

150 x 75mm



Deep Run Gutter

110 x 85mm



Modern Gutter

100 x 85mm

150 x 120mm



Moulded Gutter

140 x 100mm

160 x 100mm



Box Gutter

120 x 80mm

140 x 100mm 160 x 100mm

Aqualine - Half Round Gutters and Fittings

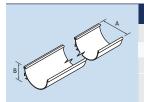


Aqualine Half Round Gutters are available in 3 sizes and in standard 3m gutter lengths, together with a complete range of fittings. A contemporary profile with clean lines that fits well into virtually any design aesthetic. Factory finished in a choice of coloured BBA certificated powder coatings.

Notes: All dimensions are in mm unless shown otherwise.

Gutter sizes shown are nominal.

Gutter Assemblies



Gutter Size	Gutter Length	Α	В	Т	Product Code
100 x 50	3000mm	117	60	3	EHR10/3MA
120 x 60	ш	140	70	3	EHR12/3MA
150 x 75	"	170	85	3	EHR15/3MA

Note: Gutter Assemblies are complete 3 metre assemblies including Gutter length, Union Clips, Brackets and Slide Locks T = Gutter Thickness (nominal)

Union Clip Assemblies



Gutter Size	A	Product Code
100 x 50	76	EHR10/UCA
120 x 60	76	EHR12/UCA
150 x 75	76	EHR15/UCA

Note: Gutter Assemblies are supplied with Union Clips and Brackets included. The codes in the table are for additional items, ordered as extras

Union Clip Assemblies include Union Clips and Slide Locks

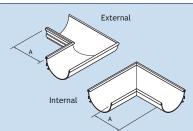
Brackets



Gutter Size	A	В	Product Code		
100 x 50	40	70	EHR10/FB		
120 x 60	40	70	EHR12/FB		
150 x 75	40	80	EHR15/FB		
Notes Cotton Assembling and complied with Union Clina and Develope included. The codes in the table and foundational					

Note: Gutter Assemblies are supplied with Union Clips and Brackets included. The codes in the table are for additional items, ordered as extras

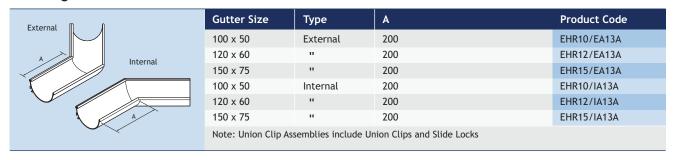
90° Angle Assemblies



Gutter Size	Туре	A	Product Code			
100 x 50	External	200	EHR10/EA90A			
120 x 60	II .	200	EHR12/EA90A			
150 x 75	п	200	EHR15/EA90A			
100 x 50	Internal	200	EHR10/IA90A			
120 x 60	п	200	EHR12/IA90A			
150 x 75	п	200	EHR15/IA90A			
Note: Union Clip Assemblies include Union Clips and Slide Locks						

Aqualine - Half Round Gutters and Fittings

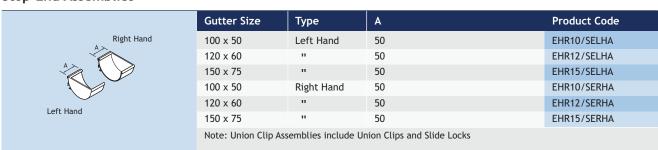
135° Angle Assemblies



Running Outlet Assemblies



Stop-End Assemblies



Starter Pack (required with each order)

Includes: P80 joint/seal lubricant. 2 x jointing tool.	Gutter Size	Product Code
10 x spare lock bars.	100 x 50	EHR10/START
20 x spare No 12 screws. 8 x spare seal strips.	120 x 60	EHR12/START
20 x shims.	150 x 75	EHR15/START

Aqualine - Deep Run Gutters and Fittings

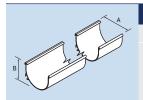


Aqualine Deep Run Gutters combine the clean lines of a modern half round gutter with high capacity and extra performance. Available in 1 size and in standard 3m gutter lengths, together with a complete range of fittings. Factory finished in a choice of coloured BBA certificated powder coatings.

Notes: All dimensions are in mm unless shown otherwise.

Gutter sizes shown are nominal.

Gutter Assemblies



Gutter Size	Gutter Length	A	В	Т	Product Code
110 x 85	3000mm	137	88	3	EDR11/3MA

Note: Gutter Assemblies are complete 3 metre assemblies including Gutter length, Union Clips, Brackets and Slide Locks T = Gutter Thickness (nominal)

Union Clip Assemblies



Gutter Size	A	Product Code
110 x 85	76	EDR11/UCA

Note: Gutter Assemblies are supplied with Union Clips and Brackets included. The codes in the table are for additional items, ordered as extras

Union Clip Assemblies include Union Clips and Slide Locks

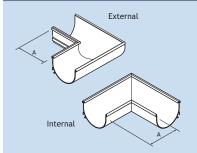
Brackets



Gutter Size	A	В	Product Code		
110 x 85	40	80	EDR11/FB		
Note: Gutter Assemblies are supplied with Union Clips and Brackets included. The codes in the table are for additional					

Note: Gutter Assemblies are supplied with Union Clips and Brackets included. The codes in the table are for additiona items, ordered as extras

90° Angle Assemblies

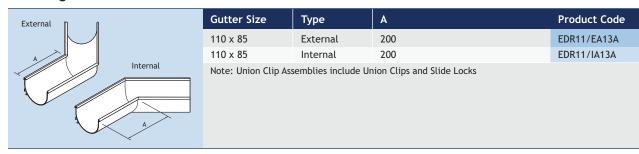


Gutter Size	Туре	A	Product Code
110 x 85	External	200	EDR11/EA90A
110 x 85	Internal	200	EDR11/IA90A

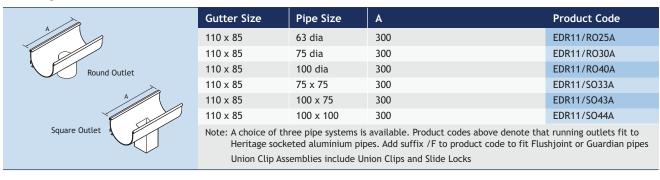
Note: Union Clip Assemblies include Union Clips and Slide Locks

Aqualine - Deep Run Gutters and Fittings

135° Angle Assemblies



Running Outlet Assemblies



Stop-End Assemblies

Right Hand	Gutter Size	Туре	A	Product Code
A	110 x 85	Left Hand	50	EDR11/SELHA
	110 x 85	Right Hand	50	EDR11/SERHA
Left Hand	Note: Union Clip Ass	emblies include Ur	ion Clips and Slide Locks	

Starter Pack (required with each order)

Includes: P80 joint/seal lubricant. 2 x jointing tool. 10 x spare lock bars.	Gutter Size	Product Code
	110 x 85	EDR11/START
20 x spare No 12 screws. 8 x spare seal strips. 20 x shims.		





Aqualine - Modern Gutters and Fittings

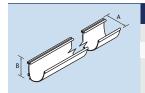


Aqualine Modern Gutters are available in 2 sizes and in standard 3m gutter lengths, together with a complete range of fittings. Sophisticated contemporary appearance for striking visual detail at the roofline. Factory finished in a choice of coloured BBA certificated powder coatings.

Notes: All dimensions are in mm unless shown otherwise.

Gutter sizes shown are nominal.

Gutter Assemblies



Gutter Size	Gutter Length	Α	В	Т	Product Code
100 x 85	3000mm	122	104	3	EAQ10/3MA
150 x 120	"	170	135	3	EAQ15/3MA

Note: Gutter Assemblies are complete 3 metre assemblies including Gutter length, Union Clips, Brackets and Slide Locks T = Gutter Thickness (nominal)

Union Clip Assemblies



Gutter Size	A	Product Code			
100 x 85	76	EAQ10/UCA			
150 x 120	76	EAQ15/UCA			
Note: Gutter Assemblies are supplied with Union Clips and Brackets included. The codes in the table are for additional					

Note: Gutter Assemblies are supplied with Union Clips and Brackets included. The codes in the table are for additional items, ordered as extras

Union Clip Assemblies include Union Clips and Slide Locks

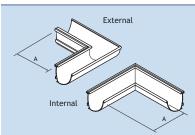
Brackets



Gutter Size	A	В	Product Code
100 x 85	40	92	EAQ10/FB
150 x 120	40	88	EAQ15/FB

Note: Gutter Assemblies are supplied with Union Clips and Brackets included. The codes in the table are for additional items, ordered as extras

90° Angle Assemblies

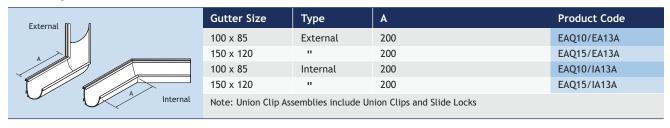


Gutter Size	Туре	A	Product Code
100 x 85	External	200	EAQ10/EA90A
150 x 120	11	200	EAQ15/EA90A
100 x 85	Internal	200	EAQ10/IA90A
150 x 120	"	200	EAQ15/IA90A

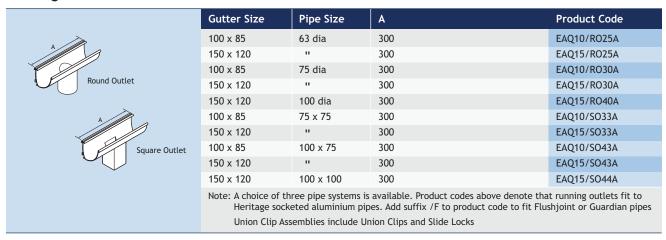
Note: Union Clip Assemblies include Union Clips and Slide Locks

Aqualine - Modern Gutters and Fittings

135° Angle Assemblies



Running Outlets Assemblies



Stop-End Assemblies



Starter Pack (required with each order)

	Includes: P80 joint/seal lubricant. 2 x jointing tool.	Gutter Size	Product Code
	10 x spare lock bars. 20 x spare No 12 screws. 8 x spare seal strips. 20 x shims.	100 x 85	EAQ10/START
		150 x 120	EAQ15/START





Aqualine - Moulded Gutters and Fittings

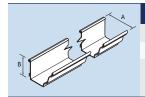


Aqualine Moulded Gutters are available in 2 sizes and in standard 3m gutter lengths, together with a complete range of fittings. A classic moulded profile in a state-of-theart contemporary gutter system. Factory finished in a choice of coloured BBA certificated powder coatings.

Notes: All dimensions are in mm unless shown otherwise.

Gutter sizes shown are nominal.

Gutter Assemblies



Gutter Size	Gutter Length	Α	В	т	Product Code
140 x 100	3000mm	165	103	3	EMG14/3MA
160 x 100	11	187	103	3	EMG16/3MA

Note: Gutter Assemblies are complete 3 metre assemblies including Gutter length, Union Clips, Brackets and Slide Locks T = Gutter Thickness (nominal)

Union Clip Assemblies



Gutter Size	A	Product Code
140 x 100	76	EMG14/UCA
160 x 100	76	EMG16/UCA

Note: Gutter Assemblies are supplied with Union Clips and Brackets included. The codes in the table are for additional items, ordered as extras

Union Clip Assemblies include Union Clips and Slide Locks

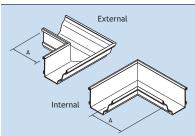
Brackets



Gutter Size	A	В	Product Code
140 x 100	40	92	EMG14/FB
160 x 100	40	92	EMG16/FB

Note: Gutter Assemblies are supplied with Union Clips and Brackets included. The codes in the table are for additional items, ordered as extras

90° Angle Assemblies

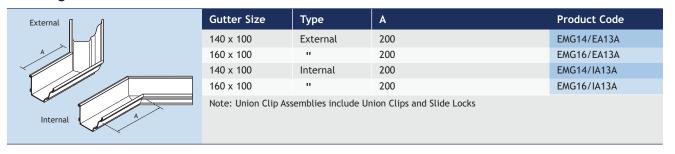


Gutter Size	Туре	A	Product Code
140 x 100	External	200	EMG14/EA90A
160 x 100	II .	200	EMG16/EA90A
140 x 100	Internal	200	EMG14/IA90A
160 x 100	п	200	EMG16/IA90A

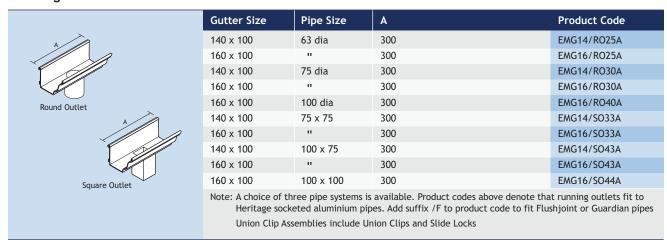
Note: Union Clip Assemblies include Union Clips and Slide Locks

Aqualine - Moulded Gutters and Fittings

135° Angle Assemblies



Running Outlet Assemblies



Stop-End Assemblies



Starter Pack (required with each order)

Includes: P80 joint/seal lubricant. 2 x jointing tool.	Gutter Size	Product Code
10 x spare lock bars.	140 x 100	EMG14/START
20 x spare No 12 screws. 8 x spare seal strips.	160 x 100	EMG16/START
20 x shims.		

Aqualine - Box Gutters and Fittings

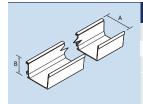


Aqualine Box Gutters are available in 3 sizes and in standard 3m gutter lengths, together with a complete range of fittings. Pronounced angular lines make a strong visual statement. Factory finished in a choice of coloured BBA certificated powder coatings.

Notes: All dimensions are in mm unless shown otherwise.

Gutter sizes shown are nominal.

Gutter Assemblies



Gutter Size	Gutter Length	A	В	Т	Product Code
120 x 80	3000mm	145	83	3	EBG12/3MA
140 x 100	11	162	103	3	EBG14/3MA
160 x 100	п	183	103	3	EBG16/3MA

Note: Gutter Assemblies are complete 3 metre assemblies including Gutter length, Union Clips, Brackets and Slide Locks T = Gutter Thickness (nominal)

Union Clip Assemblies



Gutter Size	A	Product Code
120 x 80	76	EBG12/UCA
140 x 100	76	EBG14/UCA
160 x 100	76	EBG16/UCA

Note: Gutter Assemblies are supplied with Union Clips and Brackets included. The codes in the table are for additional items, ordered as extras

Union Clip Assemblies include Union Clips and Slide Locks

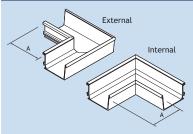
Brackets



Gutter Size	A	В	Product Code
120 x 80	40	88	EBG12/FB
140 x 100	40	92	EBG14/FB
160 x 100	40	92	EBG16/FB

Note: Gutter Assemblies are supplied with Union Clips and Brackets included. The codes in the table are for additional items, ordered as extras

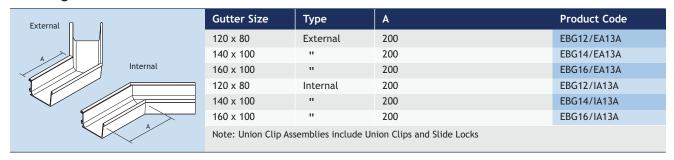
90° Angle Assemblies



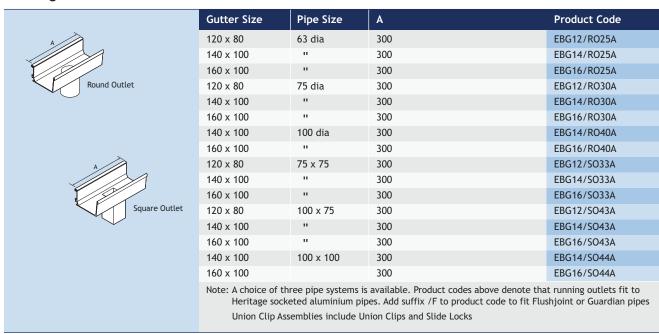
Gutter Size	Туре	A	Product Code	
120 x 80	External	200	EBG12/EA90A	
140 x 100	11	200	EBG14/EA90A	
160 x 100	п	200	EBG16/EA90A	
120 x 80	Internal	200	EBG12/IA90A	
140 x 100	п	200	EBG14/IA90A	
160 x 100	11	200	EBG16/IA90A	
Note: Union Clip Assemblies include Union Clips and Slide Locks				

Aqualine - Box Gutters and Fittings

135° Angle Assemblies



Running Outlet Assemblies



Stop-End Assemblies



Starter Pack (required with each order)

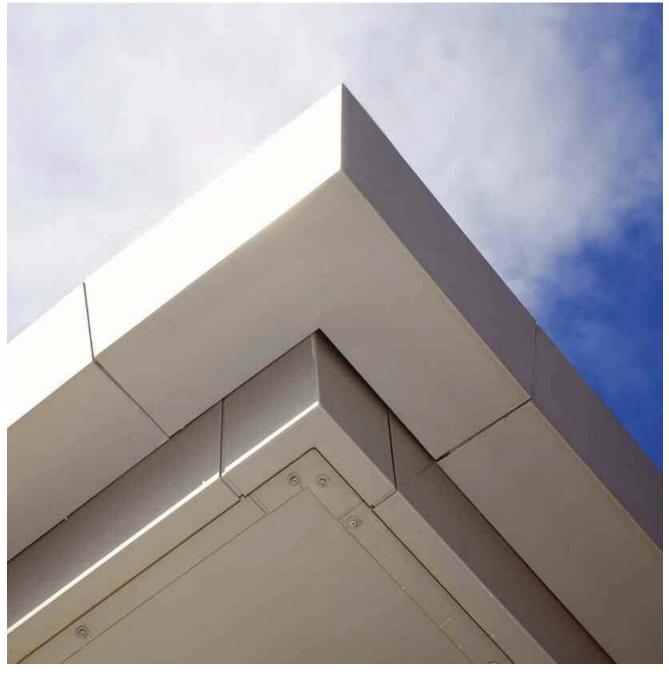
Includes: P80 joint/seal lubricant. 2 x jointing tool.	Gutter	Product Code
10 x spare lock bars.	120 x 80	EBG12/START
20 x spare No 12 screws. 8 x spare seal strips.	140 x 100	EBG14/START
20 x shims.	160 x 100	EBG16/START

GX - Pressed Aluminium Gutter Systems - Product Summary









GX - Pressed Aluminium Gutter Systems - Product Summary

A robust and fully engineered box section gutter range designed for traditional wet jointing on site. GX is offered in three profiles in a choice of sizes and is especially suited to applications where maximum capacity gutters are required.

Applications

- High capacity gutters for traditional or modern buildings
- Fully compatible with Alumasc's Skyline fascia/soffit system
- Can provide an all aluminium eaves/soffit solution
- Gutters can be exposed or concealed

Features & Performance

- 3 gutter profiles available in 3 metre lengths, in a choice of sizes
- Designed to fully accommodate thermal movement at every joint
- Lightweight, durable and noncorrodible
- Life expectancy of aluminium:
 40 years (rural/suburban areas);
 up to 25 years (industrial/marine areas)
- Easy to handle and fix
- BBA approved
- Aluminium is 100% recyclable

Colours & Finishes

- BBA approved polyester powder coatings, factory applied at Alumasc
- 26 standard colours with additional BS or RAL colours available to special order
- Also available in plain mill finish for on-site painting

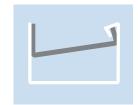
Manufacture

- UK manufactured
- Gutter lengths, fittings and unions are pressed from various thicknesses of sheet aluminium (to BS EN 1462:1997, BS EN 612:1996 to BS EN 515:1993, BS EN 573:1995 and BS EN 485)

Installation & Fixing

- Wet sealed and bolted joints a simple, well proven method
- Simple screw fixing with bracketry, generally concealed after fixing
- GX Joggle is supported by top straps
- GX Smooth is designed for simple jointing for a sleek appearance, including no requirement for sole support brackets and visible screw fixing
- GX Moulded is wet jointed and is fixed directly to the building fabric
- Minimal maintenance requirements

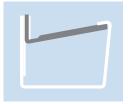
Gutter Profiles & Sizes



Joggle

100 x 75mm 125 x 100mm 150 x 100mm 150 x 150mm

200 x 150mm



Smooth

120 x 75mm 140 x 100mm 170 x 125mm

175 x 150mm 225 x 150mm



Moulded

113 x 75mm 140 x 100mm

160 x 100mm

175 x 150mm 200 x 150mm



GX - Joggle Gutters and Fittings



GX Joggle Gutters are available in 5 sizes, together with a complete range of fittings. The range comprises vertical sides, sharp angled bends, and a returned lip, plus top strap for increased strength and rigidity. Factory finished in a choice of coloured BBA certificated powder coatings.

Notes: All dimensions are in mm unless shown otherwise.

Gutter sizes shown are nominal.

Gutter Lengths are left hand spigot. All fittings are double spigot.

Gutter Lengths

A	Gutter Size	Gutter Length	A	В	Т	Product Code
14	100 x 75	3000mm	102	76	2	GXJ1/3MA
	125 x 100	11	127	102	2	GXJ2/3MA
	150 x 100	п	152	102	2	GXJ3/3MA
	150 x 150	11	152	152	2	GXJ4/3MA
	200 x 150	ш	204	152	2	GXJ5/3MA

Note: T = gutter thickness (nominal). Gutter lengths are supplied complete with top strap and fixings

Top Straps

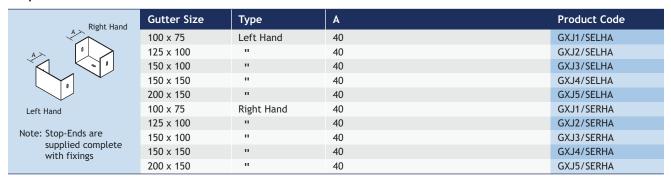
	Gutter Size	A	Product Code
A	100 x 75	25	GXJ1/TS
1	125 x 100	25	GXJ2/TS
	150 x 100	25	GXJ3/TS
Ť	150 x 150	25	GXJ4/TS
	200 x 150	25	GXJ5/TS

Note: Gutters and fittings are supplied with top straps included. The codes in this table are for additional items, ordered as extras

Union Clips

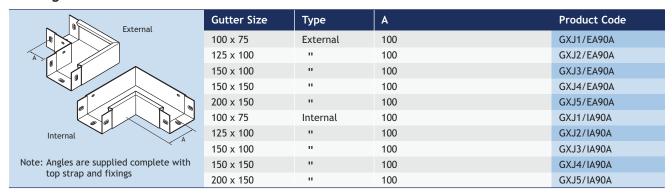
	Gutter Size	A	Product Code
A>>	100 x 75	76	GXJ1/UCA
	125 x 100	76	GXJ2/UCA
(1)	150 x 100	76	GXJ3/UCA
\checkmark	150 x 150	76	GXJ4/UCA
	200 x 150	76	GXJ5/UCA

Stop-Ends - Internal

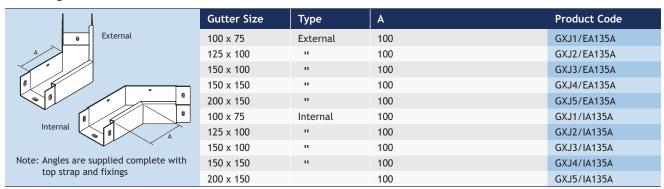


GX - Joggle Gutters and Fittings

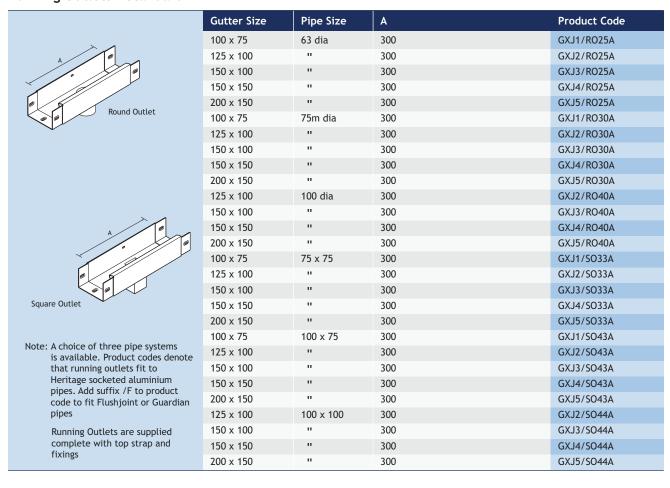
90° Angles



135° Angles



Running Outlets - Standard



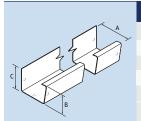
GX - Smooth Gutters and Fittings



GX Smooth Gutters are available in 5 sizes, together with a complete range of fittings. The range comprises soft corner radii and an inclined front wall terminating to a radiused lip, and is directly fixing to the building fabric. Factory finished in a choice of coloured BBA certificated powder coatings.

Notes: All dimensions are in mm unless shown otherwise. Gutter sizes shown are nominal.

Gutter Lengths



Gutter Size	Gutter Length	A	В	С	Т	Product Code	
120 x 75	3000mm	121	75	95	1.5	GXS1/3MA	
140 x 100	11	140	98	119	1.5	GXS2/3MA	
170 x 125	"	170	125	145	1.5	GXS3/3MA	
175 x 150	11	176	150	170	1.5	GXS4/3MA	
225 x 150	п	224	150	170	1.5	GXS5/3MA	
Note: T = gutter thic	Note: T = gutter thickness (nominal). Gutter lengths are supplied complete with union clip, bracket strap and fixings						

Union Clips



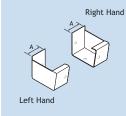
Gutter Size	A	Product Code
120 x 75	76	GXS1/UCA
140 x 100	76	GXS2/UCA
170 x 125	76	GXS3/UCA
175 x 150	76	GXS4/UCA
225 x 150	76	GXS5/UCA
Note: Gutters & fitti	ngs are supplied with union clips included. The codes in this table are for addition	nal items, ordered as extras

Bracket/Straps



Gutter Size	A	Product Code					
120 x 75	110	GXS1/BRKA					
140 x 100	110	GXS2/BRKA					
170 x 125	110	GXS3/BRKA					
175 x 150	110	GXS4/BRKA					
225 x 150	110	GXS5/BRKA					
Note: Gutters & fittir	Note: Gutters & fittings are supplied with bracket straps included. The codes in this table are for additional items, ordered as extras						

Stop-Ends - Internal

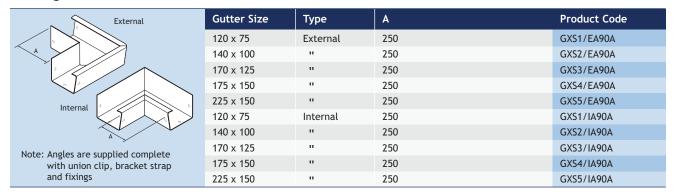


Left Hand
Note: Stop-Ends are supplied complete with union clip and fixings

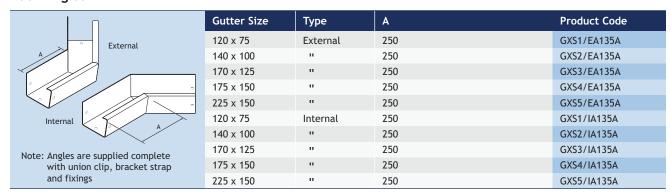
Gutter Size	Туре	A	Product Code
120 x 75	Left Hand	100	GXS1/SELA
140 x 100	п	100	GXS2/SELA
170 x 125	п	100	GXS3/SELA
175 x 150	11	100	GXS4/SELA
225 x 150	п	100	GXS5/SELA
120 x 75	Right Hand	100	GXS1/SERA
140 x 100	п	100	GXS2/SERA
170 x 125	11	100	GXS3/SERA
175 x 150	п	100	GXS4/SERA
225 x 150	11	100	GXS5/SERA

GX - Smooth Gutters and Fittings

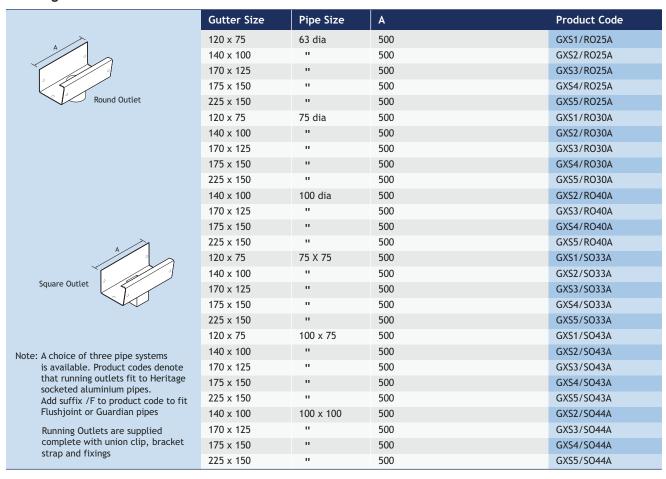
90° Angles



135° Angles



Running Outlets - Standard



GX - Moulded Gutters and Fittings



GX Moulded Gutters are available in 5 sizes, together with a complete range of fittings. In larger sizes the front wall is restrained by a top strap. The range is direct fixed to the building fabric. Factory finished in a choice of coloured BBA certificated powder coatings.

Notes: The GX Moulded range does not require brackets as it is direct fixed through the vertical back at pre-drilled, 600mm centre fixing holes.

All dimensions are in mm unless shown otherwise.

Gutter sizes shown are nominal.

Gutter Lengths

B	Gutter Size	Gutter Length	A	В	Т	Product Code
	113 x 75	3000m	113	76	2	GXM1/3MA
	140 x 100	11	139	102	2	GXM2/3MA
	160 x 100	11	162	102	2	GXM3/3MA
	175 x 150	п	175	152	3	GXM4/3MA
	200 x 150	11	207	152	3	GXM5/3MA
	Note: T = gutter th Gutter length	ickness (nominal) ns are supplied comple	te with union	n clip and	1 fixings	

Union Clips

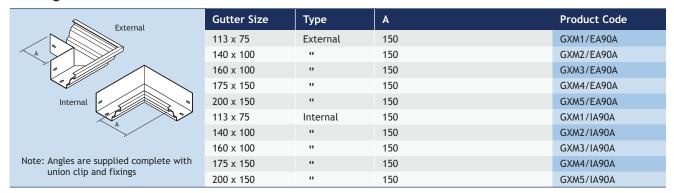


Stop-Ends - Internal

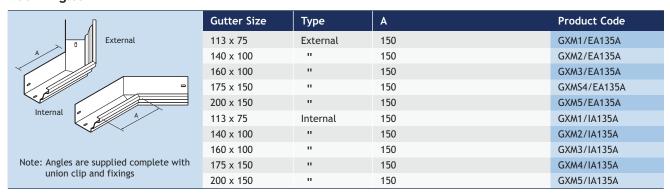


GX - Moulded Gutters and Fittings

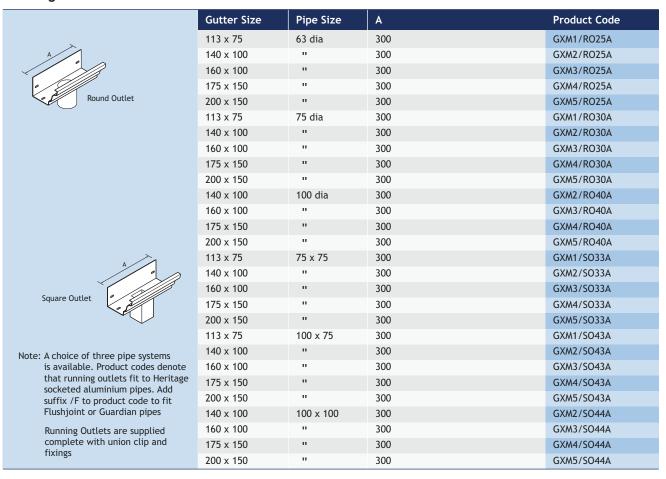
90° Angles



135° Angles

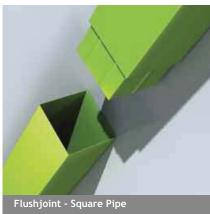


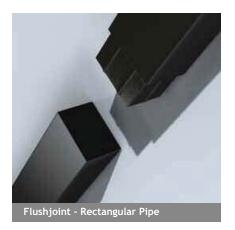
Running Outlets - Standard



Flushjoint - Aluminium Downpipe System - Product Summary









Flushjoint - Aluminium Downpipe System - Product Summary

A contemporary range of extruded aluminium downpipes. The Flushjoint system is based on concealed spigots which give a smooth, clean appearance that complements modern building design. The pipes are mounted on brackets to stand clear of the structure.

Applications

- Contemporary pipework system suitable for new build and refurbishment projects
- Compatible with Heritage, Aqualine and GX gutter systems
- Flushjoint is not designed for use in underground drainage or as part of a soil or waste system

Features & Performance

- Choice of circular, square and rectangular pipes
- Hidden spigot jointing arrangement used to achieve completely smooth external appearance
- Material hardness and fixing mechanisms give excellent rigidity and high impact resistance
- Lightweight, durable and noncorrodible
- Life expectancy of aluminium:40 years (rural/suburban areas); up to25 years (industrial/marine areas)
- Easy to handle and fix
- Aluminium is 100% recyclable

Colours & Finishes

- BBA approved polyester powder coatings, factory applied at Alumasc
- 26 standard colours with additional BS or RAL colours available to special order
- Also available in plain mill finish for on-site painting

Manufacture

- UK manufactured
- Made from extruded aluminium to BS EN 12020:2001, BS EN 515:1993, BS EN 573:1995 and BS EN 755, from grade 6063 T6 alloy

Installation & Fixing

- Flushjoint pipework is built from the gutter downwards starting with the offsets and bends
- A choice of brackets are available to give varying projections
- Brackets secure pipework with minimum visual intrusion
- Minimal maintenance requirements



Pipe Profiles & Sizes



Circular Pipe 63mm dia 75mm dia 100mm dia 150mm dia



Square Pipe 75 x 75 mm 100 x 100 mm



Rectangular Pipe 100 x 75 mm



Flushjoint Circular Pipes are available in 4 sizes and 2 pipe lengths, together with a complete range of fittings. Flush spigot pipe connection for virtually undetectable joints. Factory finished in a choice of coloured BBA certificated powder coatings.

Notes: Flushjoint can be used with any Alumasc Gutter System, providing the girth of the gutter is sufficient to accommodate the cross section area of the pipe. Running outlets are made to order according to choice of gutter and project requirements.

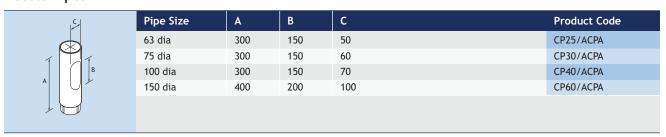
All dimensions are in mm unless shown otherwise.

Pipe sizes shown are nominal.

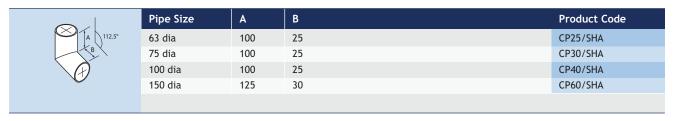
Pipes

	Pipe Size	Pipe Length (A)	В	С	Product Code
	63 dia	3000mm	63	40	CP25/3MA
R	п	2000mm	63	40	CP25/2MA
	11	1000mm	63	40	CP25/1MA
	75 dia	3000mm	76.5	40	CP30/3MA
	п	2000mm	76.5	40	CP30/2MA
	"	1000mm	76.5	40	CP30/1MA
	100 dia	3000mm	102	40	CP40/3MA
\ \	"	2000mm	102	40	CP40/2MA
	"	1000mm	102	40	CP40/1MA
	150 dia	3000mm	152	40	CP60/3MA
	п	2000mm	152	40	CP60/2MA
	"	1000mm	152	40	CP60/1MA

Access Pipes



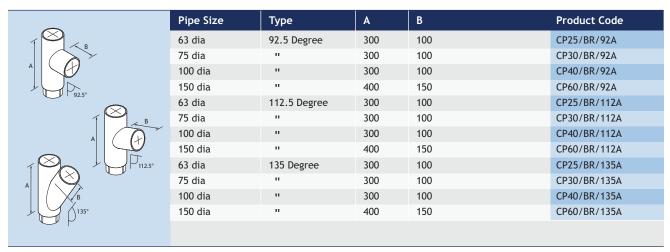
Shoes



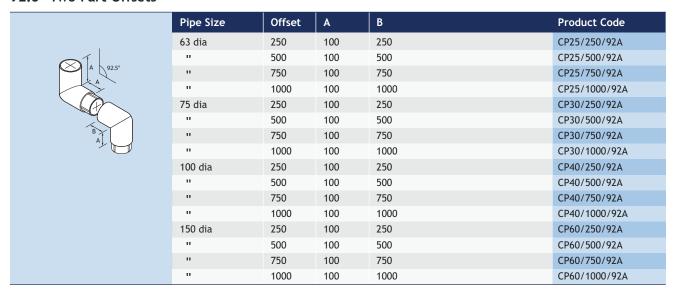
Bends

I	Pipe Size	Туре	Α	В	Product Code
92.5°	63 dia	92.5 Degree	100	100	CP25/B/92A
B	75 dia	ш	100	100	CP30/B/92A
	100 dia	п	100	100	CP40/B/92A
A 112.5°	150 dia	п	100	100	CP60/B/92A
В	63 dia	112.5 Degree	100	100	CP25/B/112A
	75 dia	п	100	100	CP30/B/112A
	100 dia	п	100	100	CP40/B/112A
A \135°	150 dia	п	100	100	CP60/B/112A
B	63 dia	135 Degree	100	100	CP25/B/135A
	75 dia	11	100	100	CP30/B/135A
	100 dia	п	100	100	CP40/B/135A
	150 dia	п	100	100	CP60/B/135A

Branches



92.5° Two Part Offsets



112.5° Two Part Offsets

	Pipe Size	Offset	A	В	Product Code
<i>x</i>	63 dia	250	100	250	CP25/250/112A
A \112.5°	· ·	500	100	500	CP25/500/112A
	"	750	100	750	CP25/750/112A
A	"	1000	100	1000	CP25/1000/112A
	75 dia	250	100	250	CP30/250/112A
	п	500	100	500	CP30/500/112A
B	"	750	100	750	CP30/750/112A
A.	· ·	1000	100	1000	CP30/1000/112A
	100 dia	250	100	250	CP40/250/112A
	п	500	100	500	CP40/500/112A
	п	750	100	750	CP40/750/112A
	п	1000	100	1000	CP40/1000/112A
	150 dia	250	100	250	CP60/250/112A
	11	500	100	500	CP60/500/112A
	11	750	100	750	CP60/750/112A
	"	1000	100	1000	CP60/1000/112A

135° Two Part Offsets

	Pipe Size	Offset	A	В	Product Code
A \\ 135°	63 dia	250	100	250	CP25/250/135A
		500	100	500	CP25/500/135A
	11	750	100	750	CP25/750/135A
	11	1000	100	1000	CP25/1000/135A
	75 dia	250	100	250	CP30/250/135A
B)	"	500	100	500	CP30/500/135A
41	11	750	100	750	CP30/750/135A
	"	1000	100	1000	CP30/1000/135A
	100 dia	250	100	250	CP40/250/135A
	"	500	100	500	CP40/500/135A
	11	750	100	750	CP40/750/135A
	"	1000	100	1000	CP40/1000/135A
	150 dia	250	100	250	CP60/250/135A
	"	500	100	500	CP60/500/135A
	11	750	100	750	CP60/750/135A
	"	1000	100	1000	CP60/1000/135A

135° Fixed Offsets

<u>.</u> 19	Pipe Size	Offset	A	В	Product Code
A	63 dia	75	100	100	CP25/75/135A
B	75 dia	75	100	100	CP30/75/135A
	100 dia	75	100	100	CP40/75/135A

Loose Spigots

A	Pipe Size	A	Product Code
	63 dia	100	RW1/SPIG/100
	75 dia	100	RW2/SPIG/100
	100 dia	100	RW3/SPIG/100

Standard Base Clips

0 0	Pipe Size	A	В	С	Product Code
B B A	63 dia	124	100	65	RW1/236
	75 dia	137	112	71	RW2/237
	100 dia	163	138	90	RW3/238
63 dia, 75 dia 150 dia	150 dia	255	215	121	RW60/PC
100 dia					

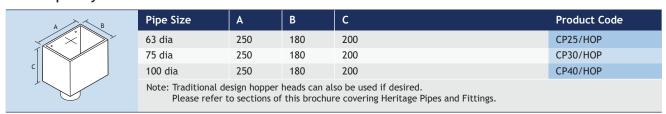
Extended Base Clips

	Pipe Size	A	В	С	Product Code
63 dia 75 dia 100 dia	63 dia	87	47	279	RW1/364
	75 dia	87	47	285	RW2/365
	100 dia	87	47	304	RW3/366

Small Base Clips

o ol I→ B · I	Pipe Size	A	В	С	Product Code
T A	63 dia	87	47	74	RW1/SB/PC
c	75 dia	87	47	80	RW2/SB/PC
	100 dia	87	47	92	RW3/SB/PC

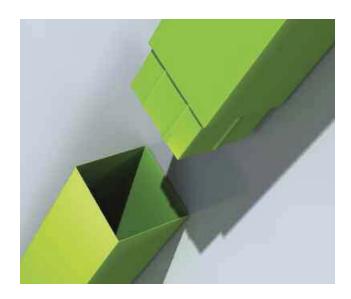
Contemporary Rainwater Heads







Flushjoint - Square and Rectangular Pipes and Fittings



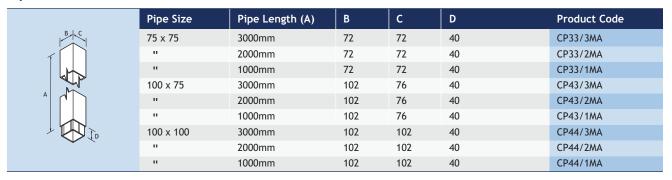
Flushjoint Square and Rectangular Pipes are available in 3 sizes and 2 pipe lengths, together with a complete range of fittings. Flush spigot pipe connection for virtually undetectable joints. Factory finished in a choice of coloured BBA certificated powder coatings.

Notes: Flushjoint can be used with any Alumasc Gutter System, providing the girth of the gutter is sufficient to accommodate the cross section area of the pipe. Running outlets are made to order according to choice of gutter and project requirements.

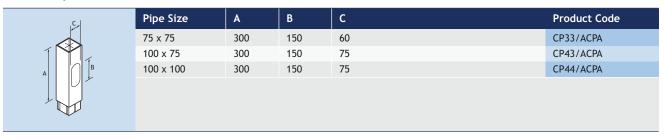
All dimensions are in mm unless shown otherwise.

Pipe sizes shown are nominal.

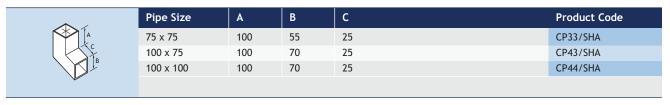
Pipes



Access Pipes

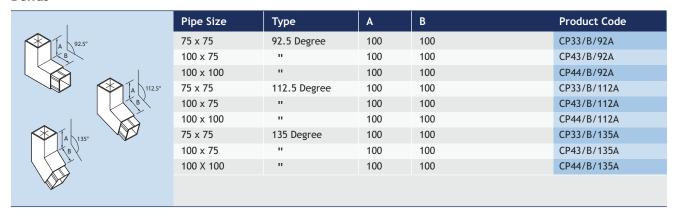


Shoe

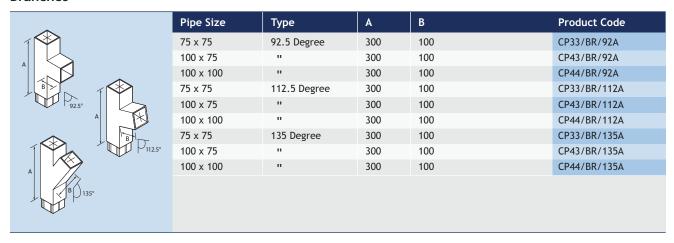


Flushjoint - Square and Rectangular Pipes and Fittings

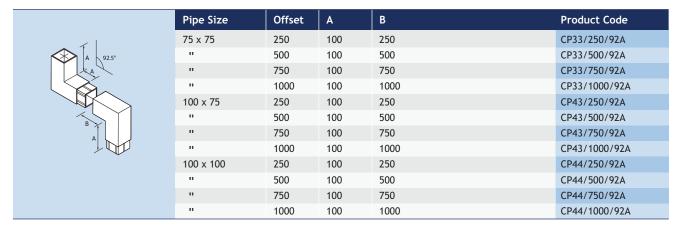
Bends



Branches



92.5° Two Part Offsets



Flushjoint - Square and Rectangular Pipes and Fittings

112.5° Two Part Offsets

	Pipe Size	Offset	A	В	Product Code
→ 1	75 x 75	250	100	250	CP33/250/112A
A \\112.5°	II .	500	100	500	CP33/500/112A
TA Y	п	750	100	750	CP33/750/112A
	11	1000	100	1000	CP33/1000/112A
	100 x 75	250	100	250	CP43/250/112A
B	"	500	100	500	CP43/500/112A
A	п	750	100	750	CP43/750/112A
1	"	1000	100	1000	CP43/1000/112A
	100 x 100	250	100	250	CP44/250/112A
	"	500	100	500	CP44/500/112A
	11	750	100	750	CP44/750/112A
	"	1000	100	1000	CP44/1000/112A

135° Two Part Offsets

	Pipe Size	Offset	A	В	Product Code
- 1	75 x 75	250	100	250	CP33/250/135A
A \135°	11	500	100	500	CP33/500/135A
T _A	п	750	100	750	CP33/750/135A
	"	1000	100	1000	CP33/1000/135A
	100 x 75	250	100	250	CP43/250/135A
< \\ \	11	500	100	500	CP43/500/135A
B	11	750	100	750	CP43/750/135A
A	"	1000	100	1000	CP43/1000/135A
	100 x 100	250	100	250	CP44/250/135A
	"	500	100	500	CP44/500/135A
	11	750	100	750	CP44/750/135A
	II .	1000	100	1000	CP44/1000/135A

135° Fixed Offsets

1	Pipe Size	Offset	A	В	Product Code
A	75 x 75	75	100	100	CP33/75/135A
	100 x 75	75	100	100	CP43/75/135A
B	100 x 100	75	100	100	CP44/75/135A

Loose Spigots

	Pipe Size	A	Product Code
1	75 x 75	100	RW33/SPIG/100
A] U	100 x 75	100	RW43/SPIG/100
	100 x 100	100	RW44/SPIG/100

Flushjoint - Square and Rectangular Pipes and Fittings

Standard Base Clips

○	Pipe Size	A	В	С	Product Code
_ <u>A</u>	75 x 75	133	109	52	RW33/PC
c	100 x 75	163	138	54	RW43/PC
	100 x 100	163	138	67	RW44/PC

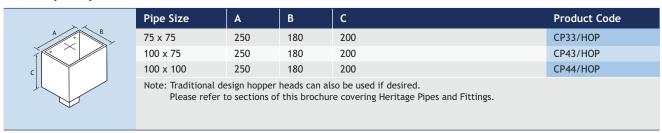
Extended Base Clips

	Pipe Size	A	В	С	Product Code
□ B A D	75 x 75	84	47	290 max	RW33/EX/PC
C C	100 x 75	84	47	292 max	RW43/EX/PC
	100 x 100	84	47	305 max	RW44/EX/PC

Small Base Clips

<u>•</u> • B	Pipe Size	A	В	С	Product Code
	75 x 75	84	47	78	RW33/SB/PC
c	100 x 75	84	47	80	RW43/SB/PC
	100 x 100	84	47	94	RW44/SB/PC

Contemporary Rainwater Heads





Guardian - Aluminium Security Pipe System - Product Summary









Guardian - Aluminium Security Pipe System - Product Summary

A contemporary range of extruded aluminium downpipes designed for mounting flush with the building fabric. Guardian pipework has concealed brackets and concealed jointing which provides a high level of security.

Applications

- Specifically designed for security conscious environments
- Suitable for new build and refurbishment projects
- Compatible with Heritage, Aqualine and GX gutter systems

Features & Performance

- Choice of circular, square and rectangular pipes
- Profiles fit flush to the wall making them vandal resistant and ungrippable
- Lightweight, durable and noncorrodible

- Life expectancy of aluminium:40 years (rural/suburban areas); up to25 years (industrial/marine areas)
- Easy to handle and fix
- Aluminium is 100% recyclable

Colours & Finishes

- BBA approved polyester powder coatings, factory applied at Alumasc
- 26 standard colours with additional BS or RAL colours available to special order
- Also available in plain mill finish for on-site painting

Manufacture

- UK manufactured
- Made from extruded aluminium to BS EN 12020:2001, BS EN 515:1993, BS EN 573:1995 and BS EN 755, from grade 6063 T6 alloy

Installation & Fixing

- Method of fixing allows pipes to be fitted into a recess in the facade
- Systems are assembled from the ground upwards connecting to running outlets
- Special drain connectors are available for connection to gullies
- Minimal maintenance requirements



Pipe Profiles & Sizes



Circular Pipe 86 x 106mm 111 x 138mm



Square Pipe 80 x 72mm 109 x 102mm



Rectangular Pipe 84 x 102mm

Guardian - Circular Pipes and Fittings



Guardian Circular Pipes are available in 2 sizes and pipe lengths of 2m. Concealed flush fixing ensures that the pipe cannot be scaled. Factory finished in a choice of coloured BBA certificated powder coatings.

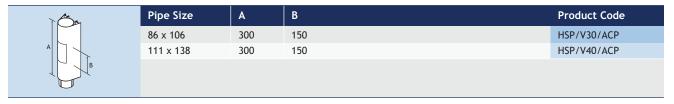
Notes: Guardian is a bespoke manufactured range. Contact Alumasc Technical Services for more information.

All dimensions are in mm unless shown otherwise.

Pipes

C . D .	Pipe Size	Pipe Length (A)	В	С	D	Е	Product Code
Ţ\Ţ.	86 x 106	2000mm	86	106	70	47	HSP/V30/2MA
B	11	1000mm	86	106	70	47	HSP/V30/1MA
. 🕰	111 x 138	2000mm	111	138	102	60	HSP/V40/2MA
	11	1000mm	111	138	102	60	HSP/V40/1MA

Access Pipes



Shoe

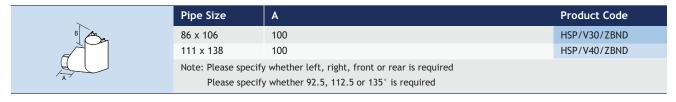
1 O	Pipe Size	A	В	Product Code
B AX	86 x 106	30	100	HSP/V30/SH
	111 x 138	30	100	HSP/V40/SH
y 112.5°				

Drain Connector

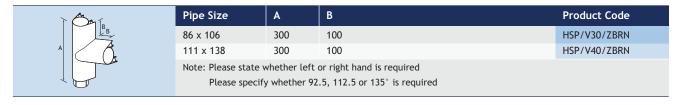
i Ara	Pipe Size	A	В	С	D	Product Code		
A	86 x 106	100	100	100	Variable	HSP/V30/ZADP		
[B	111 x 138	100	100	100	Variable	HSP/V40/ZADP		
c variable	Note: This is a made to order item. Dimensions are required from the wall to the centre of the drain prior to placing an order							

Guardian - Circular Pipes and Fittings

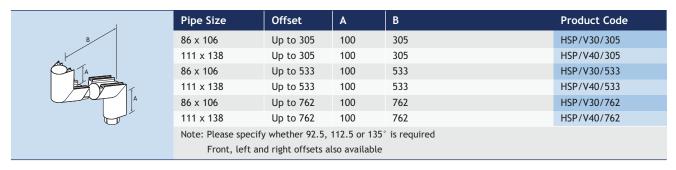
Bend



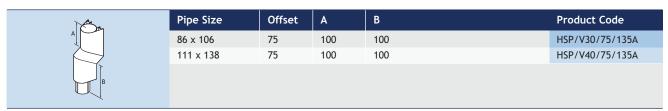
Branch



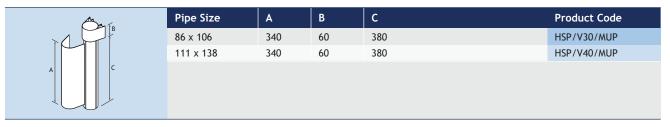
Offset



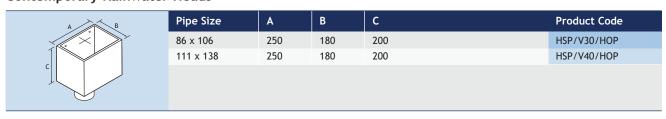
135° Fixed Offsets



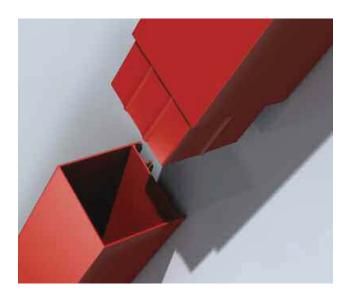
Make-Up Piece



Contemporary Rainwater Heads



Guardian - Square and Rectangular Pipes and Fittings

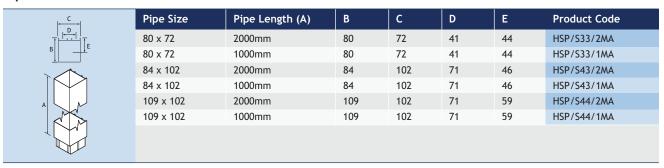


Guardian Square Pipes are available in 3 square/rectangular sizes and pipe lengths of 2m. Concealed flush fixing ensures that the pipe cannot be scaled. Factory finished in a choice of coloured BBA certificated powder coatings.

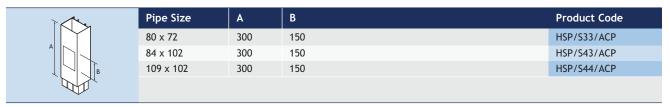
Notes: Guardian is a bespoke manufactured range. Contact Alumasc Technical Services for more information.

All dimensions are in mm unless shown otherwise.

Pipes



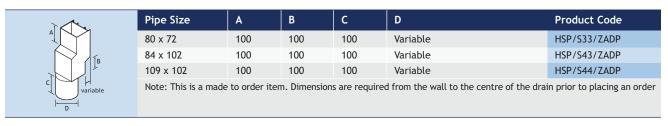
Access Pipes



Shoe

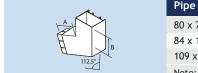
] (¹ 4 _y	Pipe Size	A	В	Product Code
A A	80 x 72	30	100	HSP/S33/SH
112.5°	84 x 102	30	305	HSP/S43/SH
7 112.5	109 x 102	30	100	HSP/S44/SH

Drain Connector



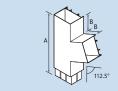
Guardian - Square and Rectangular Pipes and Fittings

Bend



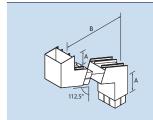
Pipe Size	A			Product Code
80 x 72	100			HSP/S33/ZBND
84 x 102	100			HSP/S43/ZBND
109 x 102	100			HSP/S44/ZBND
Note: Please specify	whother left right	front or roar is required	Place specify whather 92 F	112 5 or 135° is required

Branch



Pipe Size	A	В	Product Code	
80 x 72	300	100	HSP/S33/ZBRN	
84 x 102	300	100	HSP/S43/ZBRN	
109 x 102	300	100	HSP/S44/ZBRN	
Note: Please state whether left or right hand is required. Please specify whether 92.5, 112.5 or 135° is required				

Offset



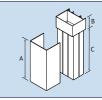
Pipe Size	Offset	A	В	Product Code
80 x 72	Up to 305	100	305	HSP/S33/305
84 x 102	Up to 305	100	305	HSP/S43/305
109 x 102	Up to 305	100	305	HSP/S44/305
80 x 72	Up to 533	100	533	HSP/S33/533
84 x 102	Up to 533	100	533	HSP/S43/533
109 x 102	Up to 533	100	533	HSP/S44/533
80 x 72	Up to 762	100	762	HSP/S33/762
84 x 102	Up to 762	100	762	HSP/S43/762
109 x 102	Up to 762	100	762	HSP/S44/762
Note: Please specify whether 92.5, 112.5 or 135° is required. Front, left and right offsets also available				

135° Fixed Offsets



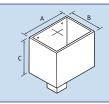
Pipe Size	Offset	A	В	Product Code
80 x 72	75	100	100	HSP/S33/75/135A
84 x 102	75	100	100	HSP/S43/75/135A
109 x 102	75	100	100	HSP/S44/75/135A

Make-Up Piece

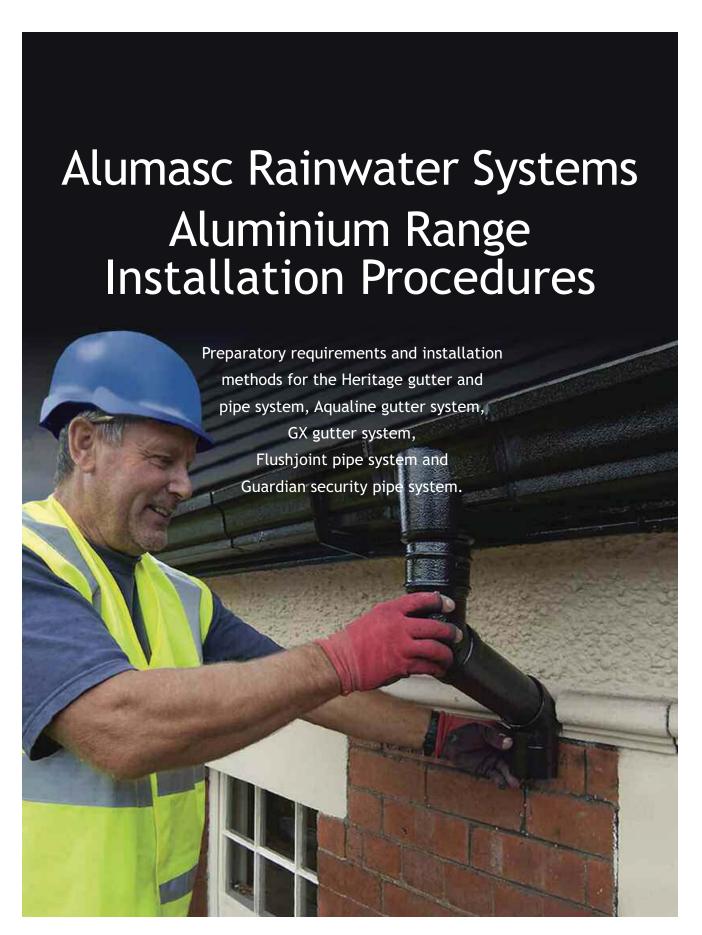


Pipe Size	A	В	С	Product Code
80 x 72	340	60	380	HSP/S33/MUP
84 x 102	340	60	380	HSP/S43/MUP
109 x 102	340	60	380	HSP/S44/MUP

Contemporary Rainwater Heads



Pipe Size	A	В	С	Product Code
80 x 72	250	180	200	HSP/S33/HOP
84 x 102	250	180	200	HSP/S43/HOP
109 x 102	250	180	200	HSP/S44/HOP



Aluminium Rainwater System Installation - Introduction

For safe and satisfactory installation of Alumasc rainwater systems, the following good practice guidelines should be reviewed before installation commences. Where unusual or special conditions arise contact Alumasc Technical Services for assistance.

General Preparation and Good Practice

Securely fixed fascia boards must be painted and capable of supporting a fully loaded gutter. Check fascia for straightness and whether shims will be necessary to align brackets without creating stress at gutter joints. Where fascia boards are not being used Alumasc provide top and side fix rafter arm brackets as well as masonry drive-in brackets.



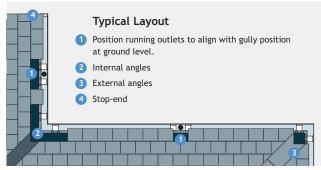
Fix brackets so as to position the gutter centrally and as close below the roof edge as possible, taking into consideration locality and roof slope finish.

If there is a risk of sliding snow, adjust the bracket positions to prevent snow hitting the front of the gutter. Extra fixings, brackets and snowboards should be considered where appropriate.

Where high winds are expected, a small bead of sealant must be applied between gutter and brackets a flexible adhesive. An occasional screw, fixed through a slot in the back of the gutter and into the fascia may be preferred, at a minimum of two per length.

Alumasc advise that the designer and contractor satisfy themselves that the application is suitable.

Setting Out



After setting out angles and outlets, fit gutters and brackets according to installation procedures for the specific rainwater system being used, as detailed in this brochure.

Cutting and Drilling

Aluminium can be cut and drilled on site with regular metalworking tools. Pencil cut lines and apply masking tape either side of cut line to protect against accidental saw damage.

Site Painting

Degrease with white spirit and clean thoroughly. Prime with zinc phosphate or similar aluminium primer, followed by at least two coats of full gloss paint on all exposed surfaces. Undercoating is not required. Where powder coated materials have been cut, it is necessary to deburr exposed edges and follow the above painting procedure.

Health and Safety

Always refer to current Health and Safety legislation, safe systems of work and the relevant material safety data sheets.

Storage and Handling

Colour coated rainwater gutters and pipes must be handled with care to prevent scratches and dents. Materials should be stored on a level surface or racking, preferably under secure cover. Uneven fading or water marks on coated and mill finish surfaces may occur if water enters protective packing or goods are stored exposed to sunlight.

Mill finish goods will have manufacturing blemishes such as grinding and fettling marks, welding will be visible on fabricated items and extruded/pressed aluminium items may also be vulnerable to scratch marks or blemishes caused in-transit. It is recommended mill finish material is painted on-site.

Store seals and sealants under cover and make secure and separate provision for solvents. Dispose of packing materials responsibly.

Testing

Allow sufficient time for sealant joints to fully cure. Check all bracket and gutter fixings are secure and plug outlets. Fill up to overflow level (but not beyond). Allow 5 minutes before inspecting all joints for leaks.

Care and Maintenance

Regularly clean out rainwater heads and gutters and ensure that downpipes are clear. Check joints and fixings are secure by periodic inspection no less than twice a year, preferably at the start of Autumn and end of Winter.

Mill finish goods will develop a protective grey aluminium oxide, however it is recommended mill finish material is painted onsite. Polyester powder coated surfaces can be cleaned by washing with warm detergent solution and leathering off.

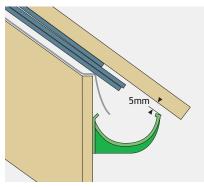
Aluminium rainwater systems installed in a coastal environment can be subject to harsh atmospheric conditions that can accelerate the oxidization process. Alumasc do not normally recommend using aluminium rainwater systems in such locations. However, applying a double coat of polyester powder coating prior to despatch, together with a strict and frequent maintenance regime, should result in the product having a life expectancy in excess of 15 years.

NB: This life expectancy depends on any installation damage being repaired immediately with appropriate touch-up paint, as should any site-cut ends exposing bare metal, which must be de-burred and then repainted in accordance with Alumasc's site painting procedure.

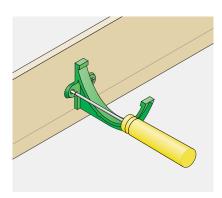
Please contact Alumasc Technical Services for further information.

Installation - Heritage Gutters

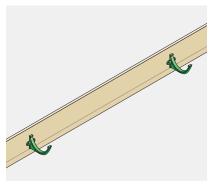
Heritage gutters are available in a choice of five profiles with a range of brackets to accommodate all types of eaves condition. Each profile range can be connected to aluminium pipework systems in either round, square or rectangular sections secured by standard and offset brackets. Assembly and installation of each profile range must be considered individually, although general aspects of preparation are common to them all as shown below.



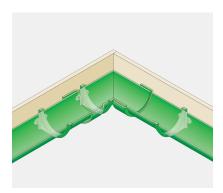
 Using a straight edge or ruler, shim gutter brackets with 5mm clearance so that the last roof tile or slate will align with the mid point of the gutter.



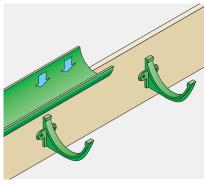
2. Generally, position brackets at 915mm centres. Allow at least 2 brackets per gutter length, 1 per angle and outlet.



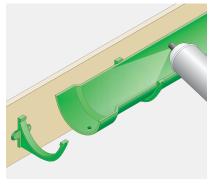
3. Use a string line to set out brackets to a fall of 1:600 to 1:350 (max) or if not possible, level.



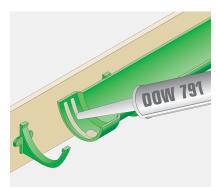
 Plumb line outlets with gullies at ground level. Position angles, allowing an additional bracket adjacent to the joint with the gutter length.



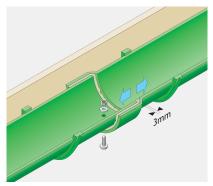
Lower the gutter onto the brackets ensuring sufficient clearance for the gutter joint. Clip gutter into bracket.



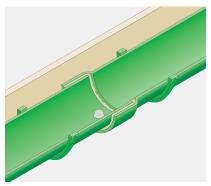
Cast gutters overlap at the joint with a spigot and socket. Thoroughly clean and degrease the ends that must be jointed.



Apply two 6mm beads of DOW 791 silicone sealant either side of, and around the fixing hole.



 Insert the spigot end of the gutter allowing a 3mm expansion gap. Secure joint using aluminium M6 x 20mm nut, bolt and washer provided. (Bolt head preferably to underside).



 Finally, cone-off the exposed bolt stud and nut inside the gutter with a generous application of silicone sealant. Tool off excess silicone around the joint and from external surfaces.

Installation - Heritage Rainwater Pipe

Heritage traditional rainwater pipes have cast pipe sockets either with ears for wall fixing or without for use with pipe clips. Installation is generally from the eaves downward.

Where sockets are supplied separately these must be lightly driven home into the rainwater pipe using a softwood block or adequate protection at the pipe end to prevent damage. Saw cuts must be square and free from dents and burrs. A light application of silicone sealant must be applied to both surfaces to ensure a waterproof seal.

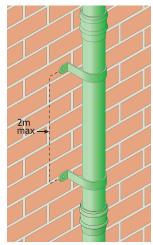
Pipe Alignment



Where square or rectangular pipes are being installed and offsets are required, alignment between the gutter outlet and gully must be exact.

Round pipe systems are more flexible to install and offsets can be adjusted and "swung" into alignment with the gully position.

Pipe Clips



Where uneared pipework is being used it must be secured at maximum 2m centres.

Pipe clips should be chosen according to visual or practical considerations and comprise Standard Base, Small Base and Extended Base options.

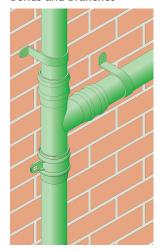
Outlets and Offsets



Commence installation from the gutter outlet by fitting and adjusting the one part or two part offsets.

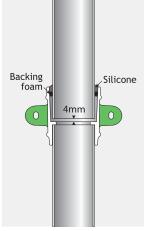
Check vertical plumb line positioning and seal spigot and socket joints using DOW791 silicone sealant.

Bends and Branches



Bends and branches are secured into the pipe socket. Where additional fixing is required e.g a change of direction at a bend, use additional pipe clips.

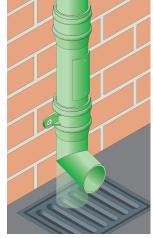
Pipe Jointing and Fixing



Allow a 4mm expansion gap between pipe end and socket, and insert a 6mm backing foam into the pipe joint. Seal with DOW 791 silicone sealant.

Fix to wall at 2m centres using No12 \times 50mm screws. Eared sockets have elongated fixing holes to permit the use of pipe nails.

Shoes and Access Pipes



At ground level rainwater pipes can terminate with a shoe for free discharge over a gully or be directly connected into the gully. In the case of direct connections it is recommended that an access pipe fitting is included within 750mm of ground level.

Tools Required

- String or plumb line
- Tape measure
- Drill
- File
- Masonry bit
- Wall fixing (e.g raw plug)
- Cleaning rags
- Marker pen
- Solvent cleaner
- Posi and plain screwdriver
- Paintbrush
- Hacksaw
- Masking tape
- Mastic gun
- Spirit level
- Protective gloves
- Adjustable spanner

General Installation Sequence

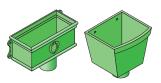
- Complete installation of gutters; alternatively, locate rainwater heads
- Position offsets, bends and branches
- Fit pipes and brackets
- Fit plinth offsets
- Fit access doors and shoes

Sealant

For durable all weather seals and best results, Alumasc recommend the use of DOW 791 silicone sealant.

Rainwater Heads

Fix to masonry through external lugs or preformed holes in back.



Installation - Aqualine Gutter and Bracket Preparation

Aqualine gutters are available in five profiles which are supported on secret fix brackets. Joints are made flush using dry seals and slide locks. As a dry jointed system, each gutter profile range is supplied with the required components to achieve a successful installation. Refer to the Rainwater System Installation Guidance on page 83 and review the information below before fitting the Aqualine gutter range.

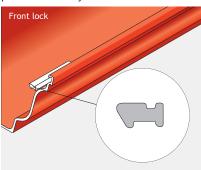
Jointing Tool

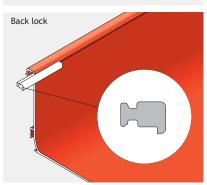
The jointing tool is used to compress the gutter seals whilst positioning slide locks.



Slide Locks

Seen here are the 3 types of slide lock (depending on rainwater system) shown positioned as they would be inserted.

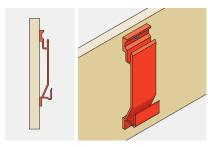




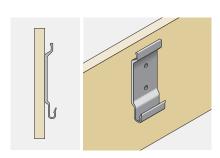


Aqualine Brackets

There are two types of Aqualine gutter bracket depending on the Aqualine gutter profile to be installed.



Bracket for Half Round and Deep Run gutters (Supplied to colour match gutter)



Bracket for Modern, Moulded and Box gutters (Supplied mill finish)

Aqualine Starter Pack

Starter Packs contain essential installation items.

- P80 joint seal lubricant
- 2 x jointing tool
- 10 x spare slide locks
- 20 x spare No 12 screws
- 8 x spare seal strips
- 20 x shims

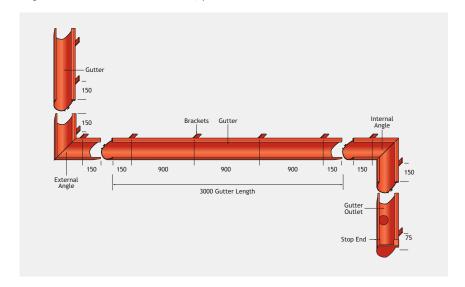
When unpacking locate the Aqualine Starter Pack and keep in a safe place.



Aqualine starter pack

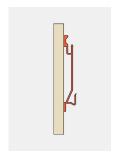
Setting Out

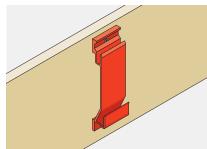
As a guide there would be 4 brackets per 3m length. Position angles using 2 brackets per angle inset 150mm from each open end. Position outlets using 1 bracket inset 75mm from open end. At gutter ends where there is no outlet, position 1 bracket inset 150mm.



Installation - Aqualine Gutter and Bracket Preparation

Aqualine gutter systems are supported on concealed bracketry which requires pre-painted fascia boards to be straight and level. The use of shims provided in the Aqualine Starter Packs assists bracket alignment and improves gutter connections whilst minimising stress within the joints. As a guide there are 4 brackets per 3 metre gutter length. Position angles using 2 brackets per angle, inset 150mm from each open end. Position outlets using 1 bracket inset 75mm from open end. At gutter ends where no outlet exists, position 1 bracket inset 150mm.



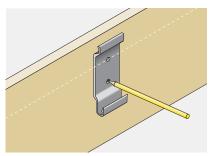




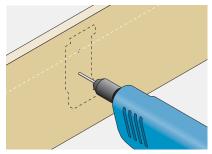


Bracket for Half Round and Deep Run gutters.

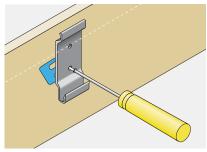
Bracket for Modern, Moulded and Box gutters.



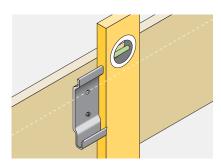
1. Use a string line or laser to set out brackets. (Aqualine must be laid level).



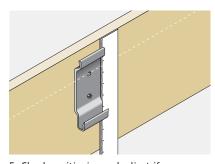
2. Position and pilot 3.5mm diameter hole.



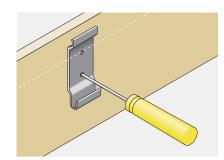
3. Lightly tighten and shim if necessary to align plumb. Fix using No12 x 38mm roundhead screws.



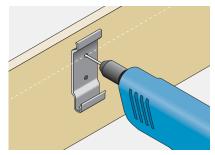
4. Set square.



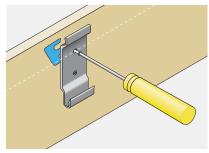
 ${\bf 5.}\ {\bf Check\ positioning\ and\ adjust\ if\ necessary.}$



6. Tighten.



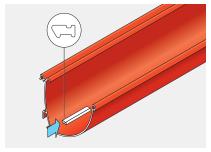
7. Pilot 3.5mm diameter hole.



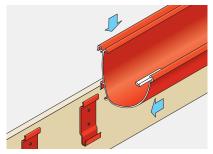
8. Check for plumb, shim if necessary and tighten.

Installation - Aqualine Half Round, Deep Run and Modern Gutters

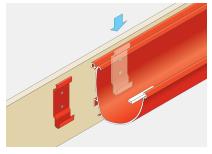
Aqualine Half Round, Deep Run and Modern gutters use a unique dry jointing system to give a completely clean external appearance. Gutters drop and lock onto concealed brackets where internal joints are aligned and locked using slide bars. Assembly of Half Round, Deep Run and Modern gutters requires the use of single front lock bars. The entire gutter system is completely secure whilst at the same time allowing free linear thermal movement.



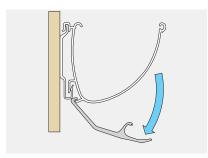
1. Pre-insert slide lock bars (1 per joint). Check for right way up.



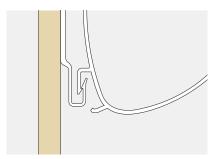
2. Position gutters loosely, do not lock down.



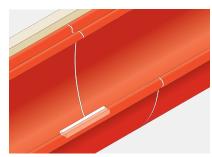
3. Locate gutters onto top rail of brackets and allow 4mm gap.



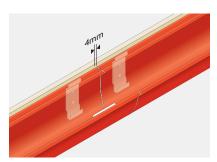
4. Lock down gutter with Aqualine jointing tool.



5. Check for positive location.



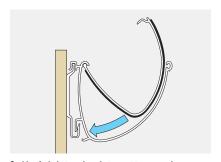
6. Slide lock bar within 50mm of joint but NOT across gutter joint.



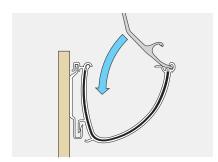
7. Check and reset 4mm expansion gap as necessary.



8. Clean jointing surfaces and spray apply Alumasc lubricant.



9. Hook joint union into gutter receiver channel and pivot down.



10. Compress joint union and start lock bar across joint.



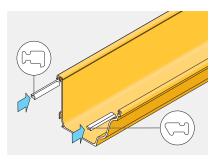
11. Reverse tool apply equal pressure around pivot point to complete lock bar positioning fully across joint. Take care not to dislodge gutter from fascia



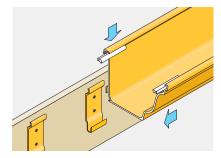
12. Dry gutter and apply DOW 791 silicone sealant to weather edges of union.

Installation - Aqualine Moulded and Box Gutters

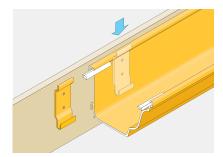
Aqualine Moulded and Box gutters use a unique dry jointing system to give a completely clean external appearance. Gutters drop and lock onto concealed brackets where internal joints are aligned and locked using slide bars. Assembly of Moulded and Box gutters requires the use of lock bars located at the front and rear. The entire gutter system is completely secure whilst at the same time allowing free linear thermal movement.



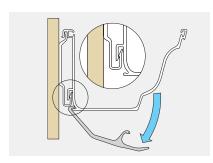
1. Pre-insert slide lock bars front and rear. Check for right way up.



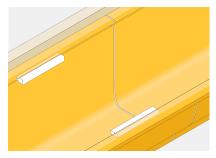
2. Position gutters loosely, do not lock down.



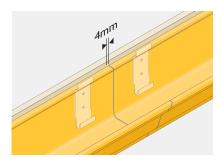
3. Locate gutters onto top rail of brackets and allow 4mm gap.



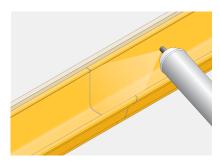
4. Lock down gutter with Aqualine jointing tool and check for full location.



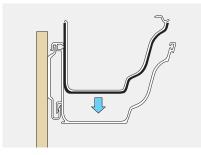
5. Slide lock bars up to but NOT across gutter joint.



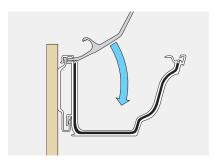
6. Check and reset 4mm expansion gap as necessary.



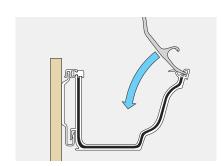
7. Clean jointing surfaces and spray apply Alumasc lubricant.



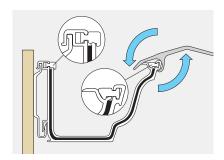
8. Push in joint union from above.



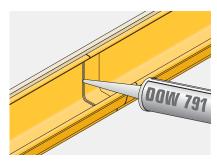
9. Compress joint union (back) and slide rear lock bar fully across joint.



10. Compress joint union (front) and start front lock bar across joint.



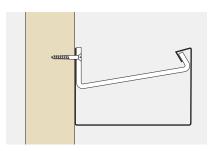
 Reverse tool apply equal pressure around pivot point to complete lock bar positioning fully across joint. Take care not to dislodge gutter from fascia bracket.



12. Dry gutter and apply DOW 791 silicone sealant to weather edges of union.

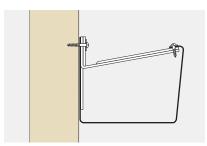
Installation - GX Gutter Preparation

The GX range consists of three gutter profiles designed for managing high volumes of rainwater. GX gutters use traditional wet jointing on site, concealed internal laps and profile specific bracketry for support. High capacity GX systems require the strength and support of internal top straps or "back fixing" directly to fascia boards. Installers should inspect fascia boards to ensure they are capable of carrying the full gutter load.



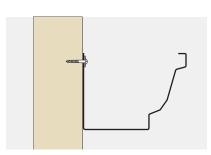
GX Joggle (GXJ)

Screw fixes to the fascia incorporating a heavy gauge top strap.



GX Smooth (GXS)

Fascia fixed using a one piece combined top and back strap.



GX Moulded (GXM)

Direct back fix system with option for top strap where large sizes and heavy loads are anticipated.

Note

If snow loads or high winds are anticipated insert two additional screws per length at the centre of each slot.

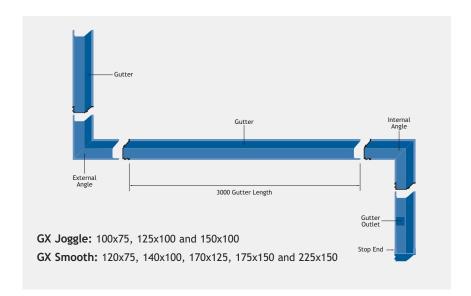
Alumasc recommend the use aluminium washers to allow for thermal movement.

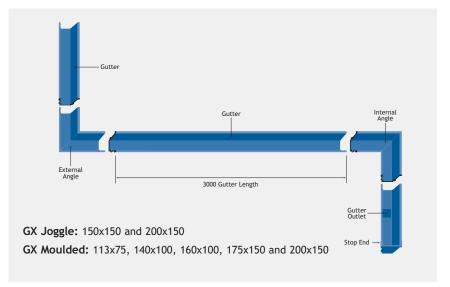
Sealing washers should be used if there is a risk of leakage during high flow conditions.

Setting Out

Follow the guidelines below for setting out:

- GX Joggle GXJ1, GXJ2, GXJ3 Fix at 1000mm centres,
 GXJ4 and GXJ5 Fix at 600mm centres using pre-drilled holes provided
- GX Smooth Fix at 1000mm centres using pre-drilled holes provided
- GX Moulded Fix at 600mm centres using pre-drilled holes provided
- 2no fixings per angle
- 1no fixing per running outlet





Sealant

For durable all weather seals and the best results, Alumasc recommends the use of DOW 791 silicone sealant.