TRADITIONAL SQUARE

ALUMINIUM RAINWATER PIPES

DALES™
ALUMINIUM IN ARCHITECTURE

Dales Traditional aluminium rainwater pipes offer the classic look of cast iron without the associated disadvantages. Significantly lighter yet exceptionally durable, they provide enhanced longevity while maintaining a traditional aesthetic—making them perfect for heritage-style projects.

These pipes feature dry-jointed connections with factory-welded cast sockets and are securely fixed through eared sockets at each joint. As manufacturer, Dales can provide many bespoke components to suit your individual project requirements.



Pipe size	101.6mm square	76.2mm square
Wall thickness	2mm	1.6mm
Pipe capacity (33% fill)	13.85 l/s	6.39 l/s

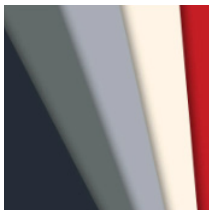
SPECIFICATION CLAUSES

NBS Source PARTNER uniclass

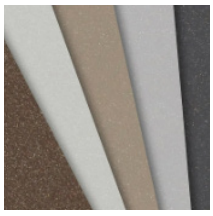
TRADITIONAL SQUARE

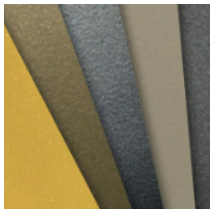
PPC finish | Click here for clause | Contact Dales

COLOUR & FINISH


Standard (PPC)

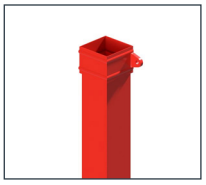

RAL & BS (PPC)


Metallic (PPC)

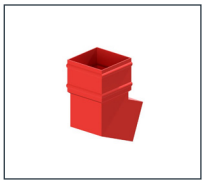

Anodite (PPC)


Special (PPC)

TRADITIONAL SQUARE COMPONENTS

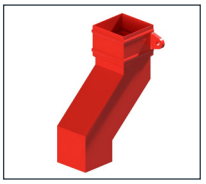

Pipe length

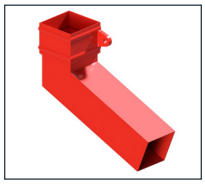

Pipe connectors


Pipe elbows

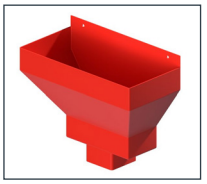

Pipe shoes

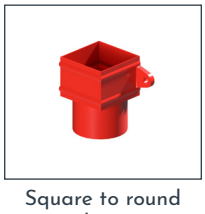

Pipe branches


Pipe offsets


Long tailed elbows


Rodding access


Hopper range


Square to round adaptor

Dales Fabrications Ltd, Crompton Road, Industrial Estate, Ilkeston, Derbyshire, DE7 4BG
Email: enquiries@dales-eaves.co.uk Tel: 0115 930 1521 dales-eaves.co.uk

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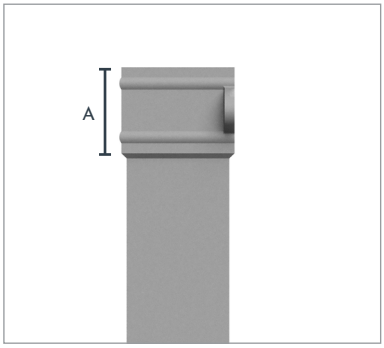
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TRADITIONAL SQUARE

ALUMINIUM RAINWATER PIPES

DALES™
ALUMINIUM IN ARCHITECTURE

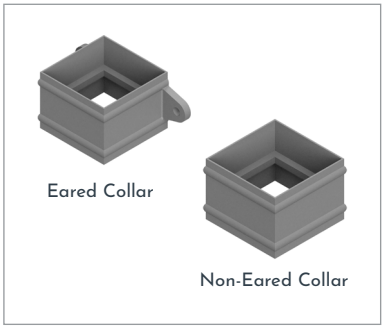
STANDARD LENGTHS (EARED)

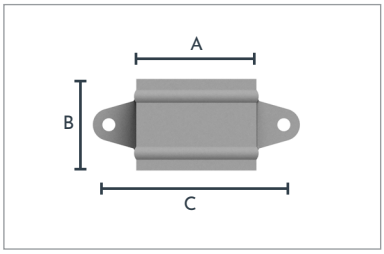


Range	Pipe size (mm)	2m	1.5m	1m	Wall thickness (mm)	A
TS3	76.2	TS3-1-2	TS3-1-1.5	TS3-1-1	1.6	80
TS4	152.4	TS4-1-2	TS4-1-1.5	TS4-1-1	2	85

Notes: Please contact the technical department if other pipe lengths are required.
Eared collars are flush fit to the wall.

LOOSE COLLARS (EARED & NON-EARED OPTIONS)



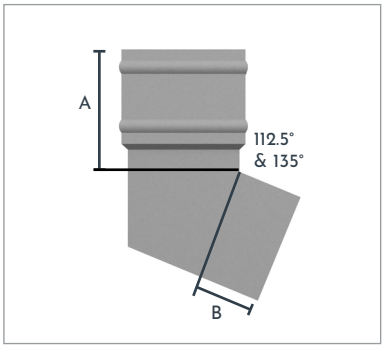


Range	Pipe size (mm)	Non-Eared Collar	Eared Collar	A	B	C
TS3	76.2	TS3-2-1	TR3-3-0	85	80	165
TS4	152.4	TS4-2.-1	TR4-3-0	112	85	193

Notes: For non-eared collars, dimension 'C' can be ignored.

In every instance where eared collars are supplied, whether loose or attached to a component, the relevant number of fixings will also be supplied.

PIPE ELBOWS



Range	Pipe size (mm)	112.5°	135°	A	B
TS3	76.2	TS3-4-112.5	TS3-4-135	105	60
TS4	152.4	TS4-4-112.5	TS4-4-135	110	60

Dales Fabrications Ltd, Crompton Road, Industrial Estate, Ilkeston, Derbyshire, DE7 4BG
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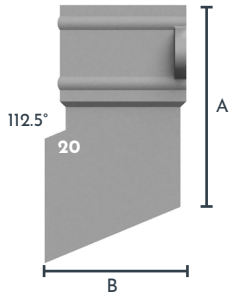
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TRADITIONAL SQUARE

ALUMINIUM RAINWATER PIPES

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ALUMINIUM IN ARCHITECTURE

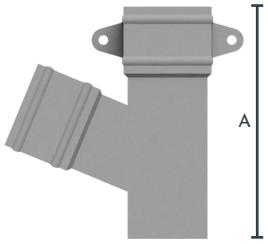
PIPE SHOES



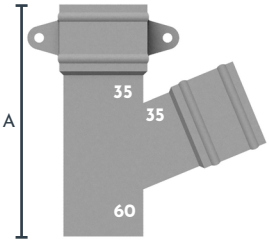
Range	Pipe size (mm)	112.5°	A	B
TS3	76.2	TS3-5-112.5	156	95
TS4	152.4	TS4-5-112.5	178	120

PIPE BRANCHES

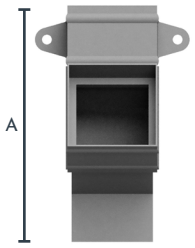
Left Hand Branch



Right Hand Branch



Front Hand Branch



Range		Pipe size (mm)	Left	Right	Front	A
Pipe Branch at 112.5°	**TS3**	76.2	TS3-6-112.5-L	TS3-6-112.5-R	TS3-6-112.5-F	262
	TS4	101.6	TS4-6-112.5-L	TS4-6-112.5-R	TS4-6-112.5-F	295
Pipe Branch at 135°	**TS3**	76.2	TS3-6-135-L	TS3-6-135-R	TS3-6-135-F	287
	TS4	101.6	TS4-6-135-L	TS4-6-135-R	TS4-6-135-F	329

Note: Dimensions common to all handing.

SQUARE-ROUND ADAPTORS





Range	Pipe size (mm)	112.5°	B
TS3	76.2	TS3-11-1	76.2
TS4	101.6	TS4-11-1	101.6

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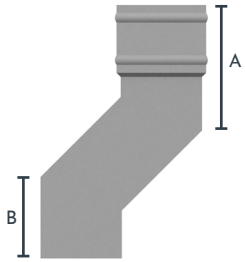
TRADITIONAL SQUARE

ALUMINIUM RAINWATER PIPES

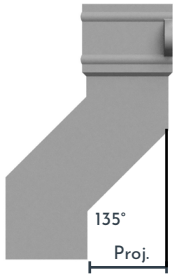
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PIPE OFFSETS

Non-Eared Offset



Eared Offset



Range		Pipe size (mm)	50mm projection	100mm projection	150mm projection	A	B
Non-Eared Offset	TS3	76.2	TS3-7-50-135	TS3-7-100-135	TS3-7-150-135	136	92
	TS4	101.6	TS4-7-50-135	TS4-7-100-135	TS4-7-150-135	152	102
Eared Offset	TS3	76.2	TS3-7-50-135-F	TS3-7-100-135-F	TS3-7-150-135-F	136	92
	TS4	101.6	TS4-7-50-135-F	TS4-7-100-135-F	TS4-7-150-135-F	152	102

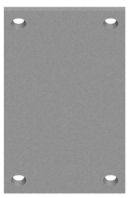
Note: Dimensions A & B common to eared and non-eared offsets

RODDING ACCESS





Neoprene Gasket



Access Plate

Range	Pipe size (mm)	Code
TS3	76.2	TS3-9-750
TS4	152.4	TS4-9-750

Note: Rodding Access comes complete with neoprene gasket & fixings.

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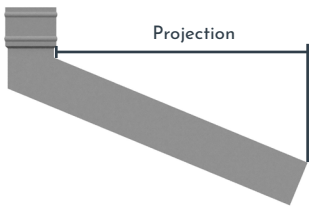
TRADITIONAL SQUARE

ALUMINIUM RAINWATER PIPES

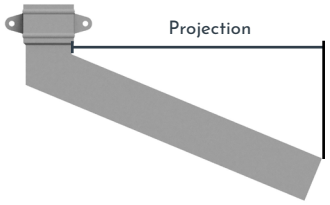
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LONG TAILED ELBOWS

Non-Eared Long Tail Elbow
112.5 & 135°



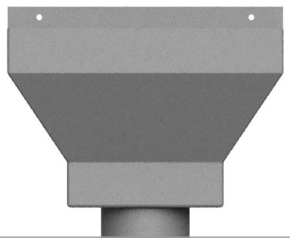
Eared Long Tail Elbow
112.5 & 135° - Left & Right Handed



Range		Pipe size (mm)	Angle	300mm Projection	600mm Projection	1000mm Projection
Non-Eared Long Tailed Elbow	TS3	76.2	112.5	TS3-8A-300-112.5	TS3-8A-600-112.5	TS3-8A-1000-112.5
	TS4	101.6		TS4-8A-300-112.5	TS4-8A-600-112.5	TS4-8A-1000-112.5
	TS3	76.2	135°	TS3-8A-300-135	TS3-8A-600-135	TS3-8A-1000-135
	TS4	101.6		TS4-8A-300-135	TS4-8A-600-135	TS4-8A-1000-135
Eared Long Tailed Elbow	TS3	76.2	112.5	TS3-8B-300-112.5-L/R	TS3-8B-600-112.5-L/R	TS3-8B-1000-112.5-L/R
	TS4	101.6		TS4-8B-300-112.5-L/R	TS4-8B-600-112.5-L/R	TS4-8B-1000-112.5-L/R
	TS3	76.2	135°	TS3-8B-300-135-L/R	TS3-8B-600-135-L/R	TS3-8B-1000-135-L/R
	TS4	101.6		TS4-8B-300-135-L/R	TS4-8B-600-135-L/R	TS4-8B-1000-135-L/R

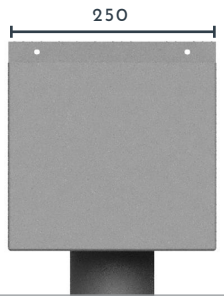
HOPPER RANGE

Tapered Hopper



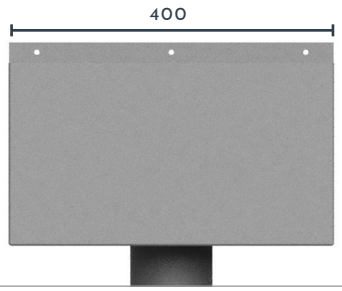
Range	Pipe size (mm)	Code
TS3	76.2	TS3-10-1-0
TS4	101.6	TS4-10-1-0

Box Hopper 250x225x225



Range	Pipe size (mm)	Code
TS3	76.2	TS3-10-2-0
TS4	101.6	TS4-10-2-0

Box Hopper 400x225x225



Range	Pipe size (mm)	Code
TS3	76.2	TS3-10-3-0
101.6	152.4	TS4-10-3-0

Note: All hoppers line through with a cast eared length of pipework - see Dimension B on page 2.

Dales Fabrications Ltd, Crompton Road, Industrial Estate, Ilkeston, Derbyshire, DE7 4BG
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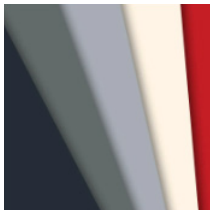
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ALUMINIUM RAINWATER PIPES

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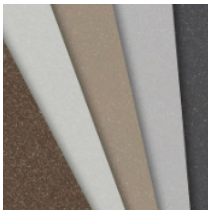
COLOUR & FINISH



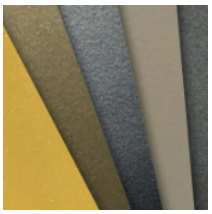
Standard (PPC)



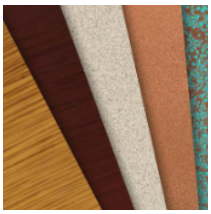
RAL & BS (PPC)



Metallic (PPC)



Anodite (PPC)



Special (PPC)

Dales manufacture standard gutters & pipes in either Anodised Aluminium or Architectural Polyester Powder Coating finishes. Details of the huge range of colours and finishes available can be found at www.dales-eaves.co.uk/finishes

POLYESTER POWDER COATINGS:
Dales recommend Syntha Pulvin (Sherwin Williams) architectural polyester powder coatings for aluminium products coated at its Syntha Pulvin Approved & ISO 9001:2015 Quality Assured coating facility in Ilkeston. All powder coated items are coated in accordance with the stringent standards demanded by Syntha Pulvin as part of their accreditation process which meets or exceeds the minimum requirements of BS 12206-1 2004.

Dales also supply aluminium products in Interpon D (Akzo Nobel) and Drylac (Tiger) architectural polyester powder coatings using only each manufacturer's Third Party Approved Applicators.

GUARANTEES:
Dales products, whether supplied in anodised or architectural polyester powder coated finish can usually be provided with guarantees, dependant on their geographical location and specific environment, and subject to terms and conditions.

ROOF DRAINAGE AND GUTTER SYSTEM DESIGN

Dales Project Managers can provide a gutter and rainwater pipe system designed to suit your individual project requirements incorporating gutter and outlet and positioning advice in accordance with BS EN 12056-3 for a given design rate of rainfall. To use this service please contact a member of our project management team on t. 0115 930 1521.

PROFESSIONAL INDEMNITY INSURANCE

Dales Fabrications hold full Design/Professional Indemnity Insurance with a first-class security in the London market. This allows architects and specifiers to use our products with confidence.

BS EN ISO 9001: DESIGN & MANUFACTURE

Dales Fabrications have been working within the constraints of BS EN ISO 9001 accreditation since 1993. Our ISO 9001: Design & Manufacture certificate is available to view and download at www.dales-eaves.co.uk/certifications

ISO 14001:2015 ENVIRONMENTAL MANAGEMENT SYSTEMS

Dales Fabrications work within the constraints of BS EN ISO 14001:2015, having gained certification in December 2023. Our ISO 14001:2015: Environmental Management Systems certificate is available to view and download at www.dales-eaves.co.uk/certifications

FLOW CAPACITIES

All published flow capacities contained in this literature are calculated in accordance with the recommendations contained in BS EN 12056-3: 2000. Dales policy is not to issue high, although genuine, experimental results which include no margin of safety.

ONLINE ORDERS

Standard aluminium rainwater pipes, components and accessories in our Standard Colour range can be ordered through our online shop at www.dales-eaves.co.uk/shop

PRICING, ORDERING & LEAD TIMES

If you require a quotation, please confirm the rainwater pipe size, shape and quantities required (if known). If you are unsure of the quantities but can send the architect's roof plans, elevations and roof eaves sections in pdf format to: enquiries@dales-eaves.co.uk we will be pleased to provide a quotation. Should you wish to speak to a member of the Dales Project Management Team please contact Dales on t.0115 930 1521.

Should you wish to place an order against a quotation please email orders@dales-eaves.co.uk and include the Dales Quotation Reference on your order. Depending on the size of your order, you may be eligible to apply for a credit account.

Current lead times for all the standard rainwater pipes shown in this literature are available in Dales Standard Colours in two weeks and in the extended BS and RAL Colours in approximately two weeks. Other colour ranges (Metallic, Anodite and Special) may take longer, please give us a ring on t. 0115 930 1521.

For lead times for 152.4mm pipes (either dia or sq) and for SecretFix VR pipe systems, please call us on Tel: 0115 930 1521 to discuss your requirements.

Dales Fabrications Ltd, Crompton Road, Industrial Estate, Ilkeston, Derbyshire, DE7 4BG
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ALUMINIUM RAINWATER PIPES

MARINE SPECIFICATION:

It is the specifier's responsibility to ensure that Marine Specification is specified in the contract particulars, and our Project Managers can assist by advising on and providing appropriate NBS Specification clauses.

Any guarantee which the polyester paint manufacturer will offer is determined by them on an individual project basis upon completion of a questionnaire submitted by the customer and possible site visit, both of which must be completed prior to any order being placed. It should be borne in mind that if the goods are on the seafront, or within 1km of the sea, then a paint manufacturer may not offer a guarantee.

For a Marine Specification guarantee to be considered, a minimum of 60 microns of paint must be applied to the external surfaces, and stainless steel fixings are required throughout.

ACUTELY EXPOSED OR INDUSTRIAL ENVIRONMENTS

If you consider that your project may be in an acutely exposed marine or industrial environment, please contact one of our Directors or Project Managers to discuss this further. Please bear in mind it is not always possible to guarantee products installed in harsh environments.

FIRE: ALUMINIUM & FINISHES

Dales manufacture Traditional rainwater pipes in Architectural Polyester Powder Coating (PPC) finishes using Syntha Pulvin (Sherwin Williams), Interpon D (Akzo Nobel) & Drylac (Tiger) or Axalta Architectural Polyester Powder Coatings (PPC) and each independent manufacturer states that all their Architectural PPC products are: A2 s1, d0 very limited combustibility (EN 13501-1 Classification of reaction to fire). Fire test certificates for each manufacturer are available to download at our Certifications & Accreditations page.

RAINWATER HOPPERS AND OTHER SPECIALS

Dales offer an extensive range of hoppers that are too wide and varied to include here. As a specialist manufacturer Dales can also manufacture bespoke hoppers and other items as we are happy to help specifiers achieve their design ideas. For more information on the extended range of hoppers, bespoke hopper or other components, please contact our Project Management Team on 0115 930 12521 or email your question to enquiries@dales-eaves.co.uk

PREFERRED INSTALLER NETWORK

Our network of Preferred Installers are available to provide a full supply and fix package. When a price is requested Dales can advise which Preferred Installers will be suitable dependant on the size and type of products to be installed.

LIGHTNING CONDUCTIVITY

Dales aluminium gutters and down-pipes can usually be rendered electrically continuous using the Dales lightning conductivity clip, as part of a lightning protection system. This can be discussed with a Dales project manager and details can be provided.

Aluminium gutters and pipes are not suitable as the sole lightning protection system for any building and should only be utilised as part of an overall lightning protection design. Specifiers should refer to the latest EN BS standard concerning the protection of structures against lightning for further information.

ASSOCIATED PRODUCTS

GUTTERS

Dales offer a wide range of decorative and functional gutter profiles. More details are available at: www.dales-eaves.co.uk/aluminium-gutters

FASCIA PROFILES

Dales design and manufacture fascia profiles to almost any shape, size or proportion including curved and elliptical designs. As part of our specification service preliminary drawings can be prepared for integration into your project drawings. All systems are designed on an individual project basis and a 25-year guarantee may be available, subject to terms and conditions. More details are available at: www.dales-eaves.co.uk/aluminium-fascia-profiles. Example drawings can be downloaded at www.dales-eaves.co.uk/eaves-detailing

SOFFIT SYSTEMS

Dales offer a variety of soffit systems, from secret fix panels to secret-fix planks. More details are available at: www.dales-eaves.co.uk/aluminium-soffit-systems

SOLAR SHADING SYSTEMS

Dales designs and manufactures solar shading systems on a bespoke basis to suit each individual project. More details are available at: www.dales-eaves.co.uk/solar-shading

Dales Fabrications Ltd, Crompton Road, Industrial Estate, Ilkeston, Derbyshire, DE7 4BG
Email: enquiries@dales-eaves.co.uk Tel: 0115 930 1521 dales-eaves.co.uk

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ISO 9001: 2015 Design & Manufacture

ISO 14001: 2015 Environmental Management Systems

RAINSCREEN PANELS
Dales design and manufacture aluminium rainscreen panels on a bespoke basis to suit each individual project. More details are available at: www.dales-eaves.co.uk/rainscreen-panels

SUPPORT SYSTEMS
More information of the various support systems that Dales can provide is available at: www.dales-eaves.co.uk/support-systems

WALL COPINGS
Dales design and manufacture aluminium wall copings on a bespoke basis to suit each individual project. More details are available at: www.dales-eaves.co.uk/wall-copings

INSTALLATION, OPERATION & MAINTENANCE INFORMATION
As part of the Dales Project Management: Design & Specification Service a full technical guide is issued to site that includes A3 copies of all Dales detail proposal drawings in full colour and generic system fixing instructions as a comprehensive Technical Guide. This also includes a comprehensive 'Fixings Identification List' that identifies where each fixing is supposed to used, the same information is noted on the detail proposal drawings too.

It is the customer's responsibility to request a full O&M pack from Dales, which will include a complete detail drawings pack and the relevant generic fixing instructions complete with the maintenance schedule and any guarantee originally requested in the original customer order.

DURABILITY & LOADINGS
DURABILITY
Dales systems are designed to give a low maintenance life of 60 years in rural and suburban conditions & up to 25 years in industrial conditions, dependant on the exact environment. For advice on marine environments please see above.

FIXINGS
Fixings present a potential weak link in any system, as such Dales take the process of fixing selection as seriously as the design of the system itself. All fixings have been selected after careful consultation with manufacturers and rigorous testing for both ultimate strengths and potential incompatibility issues. All necessary fixings are supplied as part of the complete package from Dales.

SUSTAINABILITY
ALUMINIUM: THE SUSTAINABLE CHOICE
Our aluminium rainwater pipes are manufactured from 78% recycled content and are 100% recyclable at end-of-life, minimising environmental impact while delivering performance and longevity.

CLOSED-LOOP RECYCLING
As founding members of the CAB Closed Loop Recycling Scheme, Dales ensure aluminium is recycled back into the same alloy type without quality loss. Closed-Loop Recycling reduces carbon emissions by preserving each alloy's material properties and value for future generations. More information about the scheme is available here: https://c-a-b.org.uk/closed-loop-recycling

ISO 14001:2015 CERTIFIED
Our environmental management system is certified to ISO 14001:2015, demonstrating our commitment to continuous environmental improvement and responsible manufacturing practices.

ENVIRONMENTAL POLICY
Our Manufacturing Environmental Policy is available to view and download at www.dales-eaves.co.uk/company-policies

RESPONSIBLE SOURCING
Our Responsible Sourcing Policy is available to view and download at www.dales-eaves.co.uk/company-policies

Dales Fabrications Ltd, Crompton Road, Industrial Estate, Ilkeston, Derbyshire, DE7 4BG
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ISO 9001: 2015
Design & Manufacture

ISO 14001: 2015
Environmental
Management Systems

Guidance for Quantity Surveyors
As all accessories are factory manufactured, these components do need to be measured as "extra over" items within the bills of quantities. Please contact Dales on tel: 0115 930 1521 or email enquiries@dales-eaves.co.uk for further clarification.

R10 RAINWATER DRAINAGE SYSTEMS

370 Aluminium Pipework For External Use

Manufacturer: Dales Fabrications Ltd, Crompton Road Industrial Estate, Ilkeston, Derbyshire. DE7 4BG. Tel: 0115 930 1521 Email: enquiries@dales-eaves.co.uk Website: www.dales-eaves.co.uk.
The manufacturer must prove that it holds:

- Professional Indemnity Insurance to cover its design activities.
- BS EN ISO 14001: 2015 Environmental Assurance
- Membership of the Council of Aluminium in Building's Closed Loop Recycling Scheme
- BS EN ISO 9001:2015 Quality Assurance

Product Reference: Dales Traditional Aluminium Rainwater Pipes.
Material: Extruded Aluminium pipe to BS EN 755 Part 1, 2 & 9 2001 6063 T6: With welded cast-aluminium socket: Supplied by BS EN ISO 9002 registered supplier to ensure traceability and responsible sourcing
Shape: Square (Sq-edge)
Size: 101.6mm
Gauge: 2mm
Finish: Polyester Powder coated in accordance with BS 12206-1:2004, coated only by Syntha Pulvin Approved and BS EN IOS 9002 registered applicators: Polyester Powder coating must be A2 s1, d0 limited combustibility (EN 13501-1: 2018 Classification of reaction to fire)
Colour: ……(Specify RAL/BS Colour ref & Gloss-level as selected from www.dales-eaves.co.uk/finishes)
Fixings: Fixings recommended for the purpose and supplied by Dales Fabrications Ltd.
Other requirements: Cast-Collared Pipe Joints
Accessories: Pipe connectors/square to round adapters/pipe elbows/rodding access pieces/hopper heads/pipe brackets/offset pipe brackets/pipe branches/pipe offsets/two-piece adjustable offsets/special items to be designed and factory manufactured specifically for the application.
Method of Jointing: Dry socket joint
Method of Fixing: Fixed in accordance with manufacturer's instructions, generally fixing through the eared socket welded to each pipe item. All as supplied by Dales Fabrications Ltd.

Guidance for Quantity Surveyors
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Product Reference: Dales Traditional Aluminium Rainwater Pipes.
Material: Extruded Aluminium pipe to BS EN 755 Part 1, 2 & 9 2001 6063 T6: With welded cast-aluminium socket: supplied by BS EN ISO 9002 registered supplier to ensure traceability and responsible sourcing
Shape: Square (Sq-edge)
Size: 76.2mm
Gauge: 1.63mm
Finish: Polyester Powder coated in accordance with BS 12206-1:2004, coated only by Syntha Pulvin Approved and BS EN IOS 9002 registered applicators: Polyester Powder coating must be A2 s1, d0 limited combustibility (EN 13501-1: 2018 Classification of reaction to fire)
Colour: ……(Specify RAL/BS Colour ref & Gloss-level as selected from www.dales-eaves.co.uk/finishes)
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