CONTEMPORARY SQUARE

ARCHITECTURAL ALUMINIUM DOWNPIPES

DALES™
ALUMINIUM IN ARCHITECTURE

Each pipe is extruded with a close-fit socket to one end, giving clean, contemporary lines when installed. Dales standard pipe brackets fix the pipe very close to the wall, firmly clamping the pipe in position and making it difficult to climb. As the manufacturer, Dales can provide all manner of purpose-made componentry to suit your individual project.









Pipe size	150mm square	101.6mm square	76.2mm square
Wall thickness	3mm	1.8mm	1.6mm
Pipe capacity (33% fill)	39.09 l/s	13.85 l/s	6.39 l/s

SPECIFICATION CLAUSES

NBS Source PARTNER uniclass

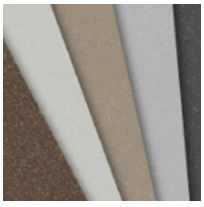
CONTEMPORARY ROUND

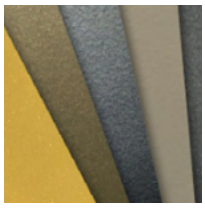
PPC finish	Click here for clause	Contact Dales
Anodised finish	Click here for clause	Contact Dales

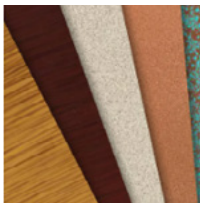
COLOUR & FINISH


Standard (PPC)


RAL & BS (PPC)


Metallic (PPC)


Anodite (PPC)

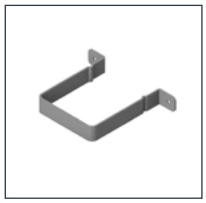

Special (PPC)

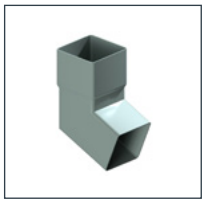

Anodised Aluminium

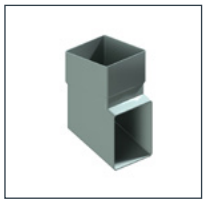
CONTEMPORARY SQUARE COMPONENTS

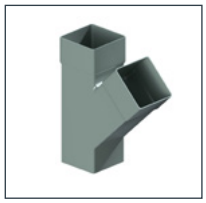

Pipe length

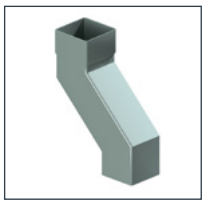

Pipe connectors

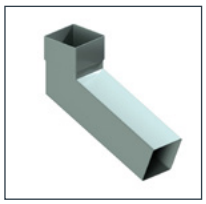

Pipe brackets

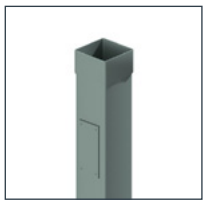

Pipe elbows


Pipe shoes

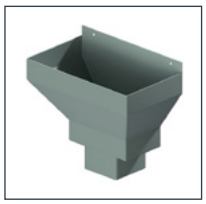

Pipe branches

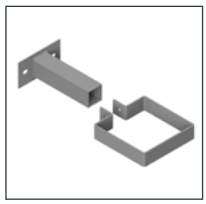

Pipe offsets


Long tailed elbows


Rodding access


Square to round adaptor


Hopper range


Mullion brackets

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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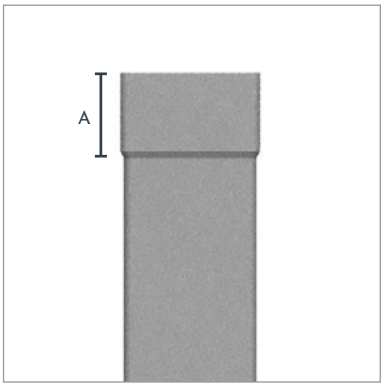
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Environmental Management Systems

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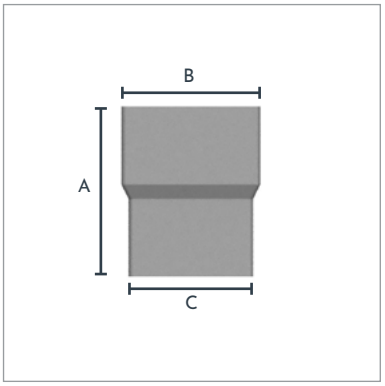
STANDARD LENGTHS



Range	Pipe size (mm)	3m	2m	1.5m	1m	Wall thickness (mm)	A
CS3	76.2	CS3-1-3	CS3-1-2	CS3-1-1.5	CS3-1-1	1.6	65
CS4	101.6	CS4-1-3	CS4-1-2	CS4-1-1.5	CS4-1-1	1.85	65
CS6	150	CS6-1-3	CS6-1-2	CS6-1-1.5	CS6-1-1	3	62

Notes: CS6 Range uses welded on collars to act as a faux swaged connection.
All lengths stated are +62mm in length to account for this.
Please contact our technical department if another pipe length is required.

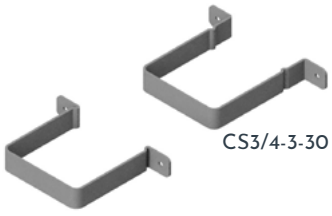
LOOSE PIPE CONNECTORS



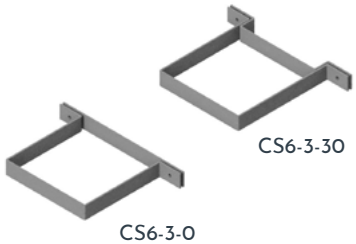
Range	Pipe size (mm)	Code	A	B	C
CS3	76.2	CS3-2-1	130	81	70
CS4	101.6	CS4-2-1	130	107	96
CS6	150	CS6-2.-1	130	157	141

PIPE BRACKETS

1-Piece Brackets (CS3 & CS4)



2-Piece Brackets (CS6)



Note: '0' Relates to a flush-fit bracket & '30' relates to a 30mm standoff projection bracket.

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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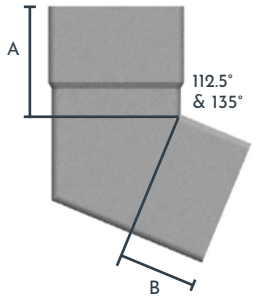
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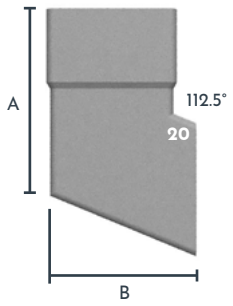
PIPE ELBOWS

112.5° Elbow Shown



Range	Pipe size (mm)	112.5° Angle	135° Angle	A	B
CS3	76.2	CS3-4-112.5	CS3-4-135	85	60
CS4	101.6	CS4-4-112.5	CS4-4-135	85	60
CS6	150	CS6-4-112.5	CS6-4-135	82	60

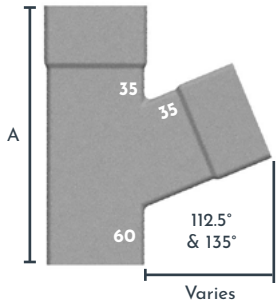
PIPE SHOES (112.5°)



Range	Pipe size (mm)	Code	A	B
CS3	76.2	CS3-5-112.5	136	95
CS4	101.6	CS4-5-112.5	153	120
CS6	150	CS6-5-112.5	182	169

PIPE BRANCHES

112.5° Branch Shown



Range	Pipe size (mm)	112.5° Angle	135° Angle	A (112.5°)	A (135°)
CS3	76.2	CS3-6-112.5	CS3-6-135	242	268
CS4	101.6	CS4-6-112.5	CS4-6-135	270	304
CS6	150	CS6-6-112.5	CS6-6-135	319	369

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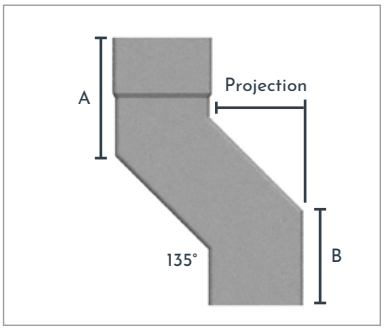
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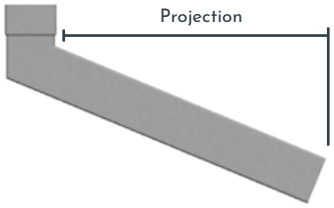
PIPE OFFSETS



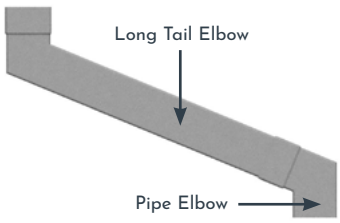
Range	Pipe size (mm)	50mm Projection	100mm Projection	150mm Projection	A	B
CS3	76.2	CS3-7-50-135	CS3-7-100-135	CS3-7-150-135	117	92
CS4	101.6	CS4-7-50-135	CS4-7-100-135	CS4-7-150-135	127	102
CS6	150	CS6-7-50-135	CS6-7-100-135	CS6-7-150-135	144	122

LONG TAILED ELBOWS

112.5 & 135°



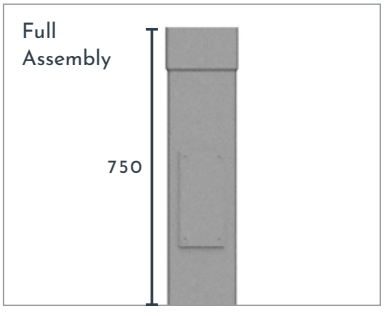
2-Piece Adjustable Example

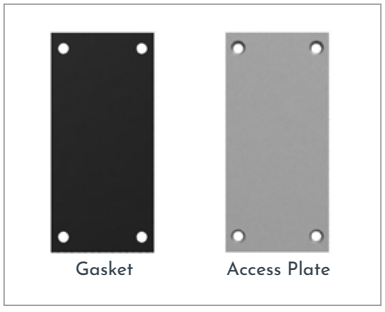


Range		Pipe size (mm)	300mm Projection	600mm Projection	1000mm Projection
Long Tailed Elbow at 112.5°	**CS3**	76.2	CS3-8-300-112.5	CS3-8-600-112.5	CS3-8-1000-112.5
	CS4	101.6	CS4-8-300-112.5	CS4-8-600-112.5	CS4-8-1000-112.5
	CS6	150	CS6-8-300-112.5	CS6-8-600-112.5	CS6-8-1000-112.5
Long Tailed Elbow at 135°	**CS3**	76.2	CS3-8-300-135	CS3-8-600-135	CS3-8-1000-135
	CS4	101.6	CS4-8-300-135	CS4-8-600-135	CS4-8-1000-135
	CS6	150	CS6-8-300-135	CS6-8-600-135	CS6-8-1000-135

Note: Long Tail Elbows & Pipe Elbows are commonly used together to create a 2-piece adjustable offset.

RODDING ACCESS





Range	Pipe size (mm)	Code
CS3	76.2	CS3-9-750
CS4	101.6	CS4-9-750
CS6	150	CS6-9-750

Notes: Rodding access comes complete with gasket, access plate & fixings. To order the gasket & access plate separately, please get in touch with our technical department who can assist.

Dales Fabrications Ltd, Crompton Road, Industrial Estate, Ilkeston, Derbyshire, DE7 4BG
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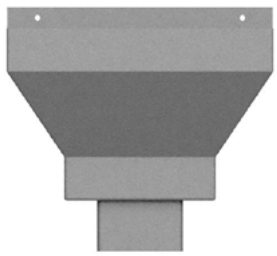
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HOPPER RANGE

Tapered Hopper



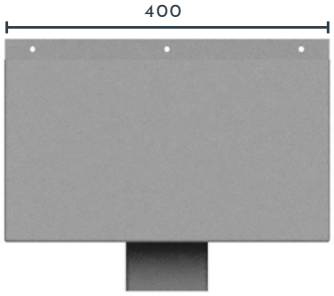
Range	Pipe size (mm)	Flush fit	30mm Stand-off
CS3	76.2	CS3-10-1-0	CS3-10-1-30
CS4	101.6	CS4-10-1-0	CS4-10-1-30
CS6	150	CS6-10-1-0	CS6-10-1-30

Box Hopper 250x225x225



Range	Pipe size (mm)	Flush fit	30mm Stand-off
CS3	76.2	CS3-10-2-0	CS3-10-2-30
CS4	101.6	CS4-10-2-0	CS4-10-2-30
CS6	150	CS6-10-2-0	CS6-10-2-30

Box Hopper 400x225x225



Range	Pipe size (mm)	Flush fit	30mm Stand-off
CS3	76.2	CS3-10-3-0	CS3-10-3-30
CS4	101.6	CS4-10-3-0	CS4-10-3-30
CS6	150	CS6-10-3-0	CS6-10-3-30

Note: Flushfit hoppers pair with brackets marked '0' & 30mm stand-off pairs with brackets marked '30'

SQUARE-ROUND ADAPTORS

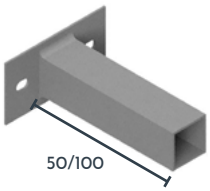




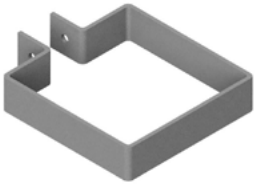
Range	Pipe size (mm)	Code	A (Ø)
CS3	76.2	CS3-11-1	76.2
CS4	101.6	CS4-11-1	101.6
CS6	101.6	CS6-11-1	152.4

MULLION BRACKETS

Mullion Backs



Mullion Fronts



Front loop manufactured to suit chosen pipe diameter

Range	Pipe size (mm)	50mm Projection	100mm Projection
CS3	76.2	CS3-12-50	CS3-12-100
CS4	101.6	CS4-12-50	CS4-12-100
CS6	150	CS6-12-50	CS6-12-100

Notes: When ordered, mullion brackets come complete with front loops, backs & standard fixings

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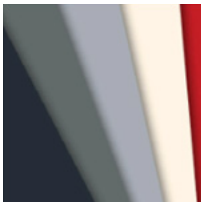
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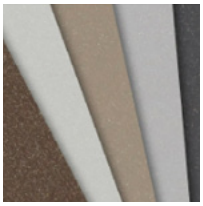
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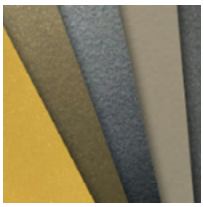
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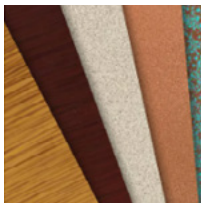
COLOUR & FINISH


Standard (PPC)


RAL & BS (PPC)


Metallic (PPC)


Anodite (PPC)


Special (PPC)


Anodised Aluminium

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

ANODISED ALUMINIUM COLOUR RANGE

Details of the anodised colour ranges available can be at at www.dales-eaves.co.uk/finish/anodised. Please also refer to Dales terms and conditions relating to anodised aluminium 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.

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
Email: enquiries@dales-eaves.co.uk Tel: 0115 930 1521 dales-eaves.co.uk

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MARINE SPECIFICATION:

In locations with high levels of UV light, such as the coast, it is the purchaser's responsibility to ensure that Marine Specification is specified, and our Project Managers can assist by advising on and providing appropriate NBS Specification clauses, if required.

Any guarantee which the polyester paint manufacturer or anodiser 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 guarantee may not be available.

In locations with high levels of UV light, such as the coast, anodised finish is recommended purely from a performance criteria. If a polyester powder coating finish is preferred then Dales recommend Qualicoat 2 Marine specification should be used.

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

ACUTELY EXPOSED OR INDUSTRIAL ENVIRONMENTS

For acutely exposed marine or industrial environments Marine Specification can be further upgraded in several ways, which includes one or more of the following:

- changing the base aluminium alloy to a ship-building alloy,
- changing the powder coating to Qualicoat 2 specification,
- amending secondary supports to all aluminium,

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 standard gutters & pipes in either Anodised Aluminium or Architectural Polyester Powder Coating finishes.

Under Classification Reaction to Fire EN BS 13501-1:2018 Anodised Aluminium is classified as A1 non-combustible and makes 'no contribution to fire". Polyester Powder Coatings are A2 s1, d0, under EN BS 13501-1: 2018, which is also classified as non-combustible under the requirements for walls of relevant buildings over 18m as required by Building Regulations Part B: Fire Safety.

Syntha Pulvin (Sherwin Williams), Interpon D (Akzo Nobel) & Drylac (Tiger) are independent manufacturers of Architectural Polyester Powder Coatings and each state that all their PPC products are: A2 s1, d0 very limited combustibility (EN 13501-1 Classification of reaction to fire). Fire test evidence conducted by independent test laboratories, can be supplied on request.

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

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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

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