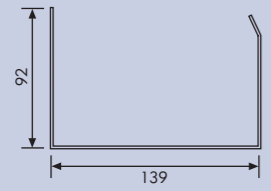
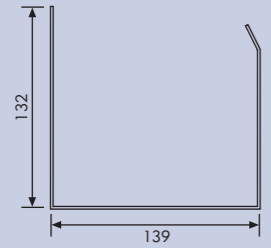


PROFILES

Description

Box gutters are generally considered to be the most efficient shape of gutter giving maximum rainwater removal for any given size. Dales range of box gutters have all been designed to give front and bottom faces visibly free from fixings.

The Dales System 75 and 120 are manufactured from 2mm thick aluminium for heavy duty use giving very high levels of rigidity are achieved.

Joining is by Dales unique overstrap joining system which allows for the high coefficient of expansion of aluminium, this and the method of fixing ensures trouble free joints whatever the temperature. The joining system has no fixings on any seen face therefore enhancing the neat line of the gutter.

Finish

All Dales aluminium products are available in the Syntha Pulvin Plus or Interpon D polyester powder coating range of colours. This gives around 200 colours. For a current colour swatch, please contact our Project Management Team on Tel: 0115 930 1521.

A full list of the standard colours is available on our web site www.dales-eaves.co.uk. For non standard colours, please contact our Project Management Team on Tel: 0115 930 1521 and they will be happy to discuss your requirements.

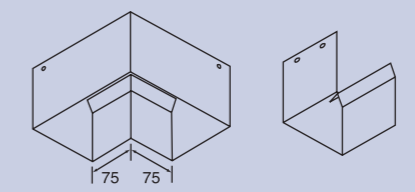
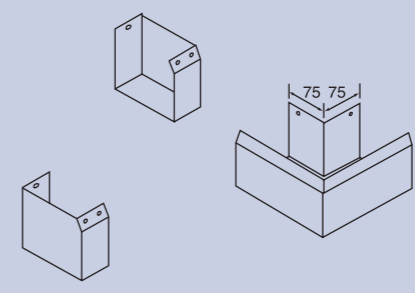
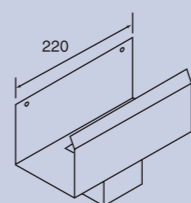
Dales System 75

Gutter Capacity:	3.31 l/s
101.6mm Sq Outlet Capacity:	4.10 l/s
101.6mm dia Outlet Capacity:	3.31 l/s
76.2mm Sq Outlet Capacity:	2.81 l/s
76.2mm dia Outlet Capacity:	2.25 l/s

Dales System 120

Gutter Capacity:	5.48 l/s
101.6mm Sq Outlet Capacity:	5.94 l/s
101.6mm dia Outlet Capacity:	4.83 l/s
76.2mm Sq Outlet Capacity:	3.32 l/s
76.2mm dia Outlet Capacity:	2.66 l/s

Scale 1:5 - dimensions in mm

<p>Internal Corner</p> <table border="0"> <tr><td>Angle</td><td>75</td><td>120</td></tr> <tr><td>90°</td><td>SY-05-090-I</td><td>S1-05-090-I</td></tr> <tr><td>135°</td><td>SY-05-135-I</td><td>S1-05-135-I</td></tr> </table>	Angle	75	120	90°	SY-05-090-I	S1-05-090-I	135°	SY-05-135-I	S1-05-135-I		<p style="text-align: right;">Joint Strap</p> <table border="0"> <tr><td>Part Ref</td><td>SY-02-000-X (75)</td></tr> <tr><td>1 No Req for each gutter</td><td></td></tr> <tr><td>1 No Req for each corner</td><td></td></tr> <tr><td>2 No Req for each outlet</td><td></td></tr> <tr><td>Part Ref</td><td>S1-02-000-X (120)</td></tr> <tr><td>1 No Supplied for each gutter</td><td></td></tr> <tr><td>1 No Supplied for each corner</td><td></td></tr> <tr><td>2 No Supplied for each outlet</td><td></td></tr> </table>	Part Ref	SY-02-000-X (75)	1 No Req for each gutter		1 No Req for each corner		2 No Req for each outlet		Part Ref	S1-02-000-X (120)	1 No Supplied for each gutter		1 No Supplied for each corner		2 No Supplied for each outlet				
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**FOR ADDITIONAL COMPONENTS, PLEASE CONTACT ONE OF OUR PROJECT MANAGERS ON
TEL: 0115 930 1521**

**POWDER COATED ALUMINIUM GUTTERS
230**

- **Manufacturer and Reference:** Dales Fabrications Ltd: Dales Dales System 75/120
Crompton Road Industrial Estate, Ilkeston, Derbys DE7 4BG. Tel: 0115 930 1521. Fax: 0115 930 7625.
website: www.dales-eaves.co.uk email: sales@dales-eaves.co.uk
Manufacturer to be BS EN ISO 9001 approved and hold Design/Professional Indemnity Insurance with a first class security in the London Market.
- **Material/Grade:** Aluminium Sheet to EN 485/515/573, supplied by BS EN ISO 9002 registered stockist to ensure traceability.
- **Gauge:** 2.0mm
- **Size:** 139 x 92 (75) 139 x 132mm (120)
- **Finish/Colour:** Polyester powder coated, colour from Syntha Pulvin Plus range coated by only Syntha Pulvin approved and BS EN ISO 9002 registered applicators.
- **Accessories:** Polyester powder coated joint straps, stop ends, internal and external corners, outlets and special items. Fixings and joint sealant recommended for the purpose and supplied by Dales Fabrications Ltd.
- **Method of Joining:** Joint straps securely clinched at top front edge. Joints assembled dry with 8mm expansion gap filled with Dales silicone sealant applied to dry surfaces after assembly.
- **Method of Fixing:** HEX HD Climadure anti-corrosion coated, zinc plated, self drill self tap fastener 5.5mm gauge x 50mm long with EPDM bonded seal washer through all pre-punched holes in the back of the gutter and accessories.



DALES Hurricane Range



DALES components & NBS Specification Clause

PROFILES

Hurricane 1000/2000

Box gutters are generally considered to be the most efficient shape of gutter giving maximum rainwater removal for any given size.

The Hurricane range of box gutters has been designed to withstand the high upward forces exerted by the hurricane conditions that have been experienced in the UK in recent years. Computer model tests have been carried out which indicate that these gutters will not be dislodged by hurricane winds of up to 150mph.

Care has been taken in the design to ensure the neatest possible appearance by eliminating fixings to the front and bottom face and shrouding the support brackets within the joining system. This joining system is based on Dales unique overstrap system and will accommodate all thermal movement experienced in the UK ensuring trouble free joints whatever the temperature.

Accessories

A wide range of standard components are available (see illustrations), however as manufacturers Dales Fabrications Ltd are able to offer purpose made components to suit individual project requirements.

Finish

All Dales aluminium products are available in the Syntha Pulvin Plus or Interpon D polyester powder coating range of colours. This gives around 200 colours. For a current colour swatch, please contact our Project Management Team on Tel: 0115 930 1521.

A full list of the standard colours is available on our web site www.dales-eaves.co.uk. For non standard colours, please contact our Project Management Team on Tel: 0115 930 1521 and they will be happy to discuss your requirements.

Hurricane 1000	
Gutter Capacity:	6.83 l/s
152.4mm dia Outlet Capacity:	8.69 l/s
101.6mm Sq Outlet Capacity:	6.03 l/s
101.6mm dia Outlet Capacity:	4.91 l/s
76.2mm Sq Outlet Capacity:	3.38 l/s
76.2mm dia Outlet Capacity:	2.70 l/s

Hurricane 2000	
Gutter Capacity:	17.90 l/s
152.4mm dia Outlet Capacity:	14.28 l/s
101.6mm Sq Outlet Capacity:	7.72 l/s
101.6mm dia Outlet Capacity:	6.28 l/s

Scale 1:5 - dimensions in mm

<p>Internal Corner</p> <table border="0"> <tr> <td>Angle</td> <td>1000</td> <td>2000</td> </tr> <tr> <td>90°</td> <td>H1-05-090-L</td> <td>H2-05-090-L</td> </tr> <tr> <td>135°</td> <td>H1-05-135-L</td> <td>H2-05-135-L</td> </tr> </table>	Angle	1000	2000	90°	H1-05-090-L	H2-05-090-L	135°	H1-05-135-L	H2-05-135-L		<p style="text-align: center;">Joint Strap for Corner</p> <p>Hurricane 1000 - H1-08-000-X 2 No Req per corner</p> <p>Hurricane 2000 - H2-08-000-X 2 No Req per corner</p>																																
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<p>Stop Ends 1000</p> <table border="0"> <tr> <td>Left Hand</td> <td>Right Hand</td> </tr> <tr> <td>H1-03-000-L</td> <td>H1-03-000-R</td> </tr> </table> <p>Stop Ends 2000</p> <table border="0"> <tr> <td>Left Hand</td> <td>Right Hand</td> </tr> <tr> <td>H2-03-000-L</td> <td>H2-03-000-R</td> </tr> </table> <p>Stiffener and Storm Washer (H2000 only)</p> <p>Part Ref H2-09-000-X 2 No Req per support bracket</p>	Left Hand	Right Hand	H1-03-000-L	H1-03-000-R	Left Hand	Right Hand	H2-03-000-L	H2-03-000-R		<p style="text-align: center;">Envelope Joint Strap</p> <p>Hurricane 1000 - H1-21-000-X 1 No Req per support bracket</p> <p>Hurricane 2000 - H2-21-000-X 1 No Req per support bracket</p> <p style="text-align: center;">Support Bracket</p> <p>Hurricane 1000 - H1-06-000-X Hurricane 2000 - H2-06-000-X</p> <p>1 No Req for each gutter 2 No Req for each outlet 1 No Req for each stop end 1 No Req for each corner</p>																																	
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**FOR ADDITIONAL COMPONENTS, PLEASE CONTACT ONE OF OUR PROJECT MANAGERS ON
TEL: 0115 930 1521**

POWDER COATED ALUMINIUM GUTTERS 230

- **Manufacturer and Reference:** Dales Fabrications Ltd: Hurricane 1000/2000
Crompton Road Industrial Estate, Ilkeston, Derbys DE7 4BG. Tel: 0115 930 1521. Fax: 0115 930 7625.
website: www.dales-eaves.co.uk email: sales@dales-eaves.co.uk
Manufacturer to be BS EN ISO 9001 approved and hold Design/Professional Indemnity Insurance with a first class security in the London Market.
- **Material/Grade:** Aluminium Sheet to EN 485/515/573, supplied by BS EN ISO 9002 registered stockist to ensure traceability.
- **Gauge:** 2.0mm
- **Size:** 163 x 128mm (1000) 204 x 207mm (2000)
- **Finish/Colour:** Polyester powder coated, colour from Syntha Pulvin Plus range coated by only Syntha Pulvin approved and BS EN ISO 9002 registered applicators.
- **Accessories:** Polyester powder coated aluminium envelope joint straps, stop ends, internal and external corner assemblies, outlets and special items. Support brackets in 50 x 6 mm (H1) or 75 x 8 mm (H2) post galvanised, ppc BS 6497. Fixings and joint sealant recommended for the purpose and supplied by Dales Fabrications Ltd.
- **Method of Joining:** Joint straps fixed securely at top front edge. Joints assembled dry with 8 mm expansion gap filled with Dales silicone sealant applied to dry surfaces after assembly.
- **Method of Fixing:** Envelope joint straps at 2.4 m centres and as necessary at corners and outlets, ensuring resistance to wind uplift in storm conditions. Fixings as supplied and recommended by Dales Fabrications Ltd.
NB: Should Hurricane systems be specified using support other than wood fascia of grade SCI or greater please contact Dales project management team for technical advice on the correct fixings to use.



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Telephone: 0115 930 1521 • Fax: 0115 930 7625 • Email: sales@dales-eaves.co.uk