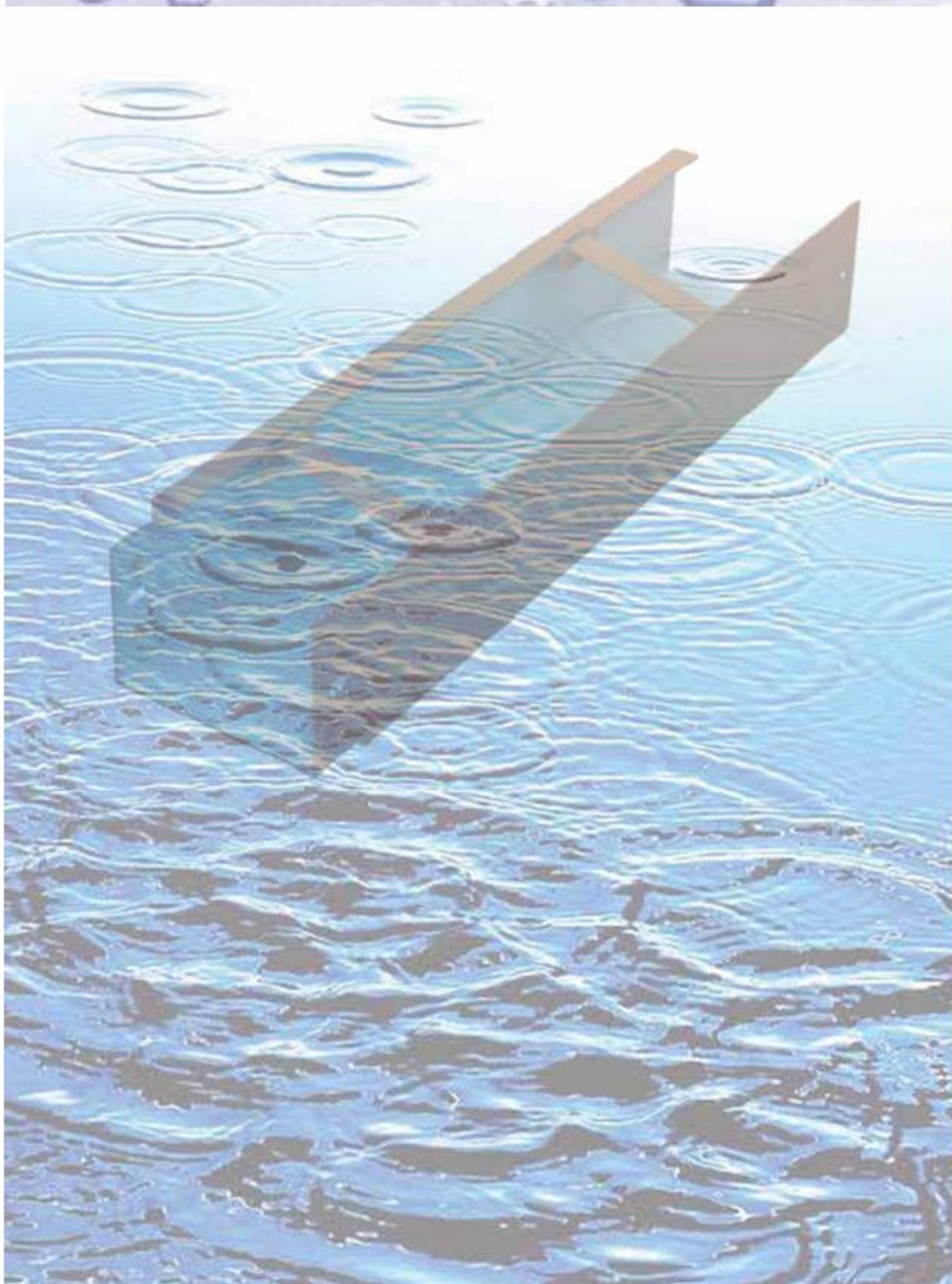


“Legion”
Pressed Box Gutter



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Unit 2, Vitruvius Way
Meridian Business Park
Braunstone
Leicester
LE19 1WA

Tel:0116 2894400

Fax:0116 2894433

E-mail:sales@arp-ltd.com

Web:www.arp-ltd.com

“Legion” Pressed Box Gutter

Description:

Formed from high strength aluminium sheet grade 1050AH14 in various sizes & profiles, with a full range of accessories ie angles, outlets, stopends, fascia brackets.

True & Facetted radius gutters are also available.

Installation:

Pressed box gutters have fascia brackets which are set out at 750mm maximum centres no further than 375mm from a joint, please also allow 1 extra bracket per fitting. The fascia brackets should be set out to any pre-determined fall taking note of the position of any fittings such as outlets & angles beforehand, brackets should be fixed using 5mm x 25mm stainless steel countersunk screws (dependant on substrate). See Fig 1.

Rafter brackets are also available whose centres may be governed by the roof timbers. Rise & fall brackets driven into the masonry are recommended to be at 600mm maximum centres.

Direct Fixing:

Box gutters are supplied pre drilled on the back face at 750mm centres. The gutter can be installed horizontal or to a pre determined fall to each outlet. (eg 1 in 60). Check existing fascia boards are suitably fixed and are structurally sound. Working from corners offer up the intermediate straight lengths and mark the fixing positions. Ensure all outlets are positioned correctly relative to the drains. Apply silicone sealant (Arbosil 1096 recommended) to the joggle joint. Using suitable fixings, (stainless steel recommended) position and fix length to fascia. Fix gutter together with M6 x 20mm screws, nuts and washers supplied.

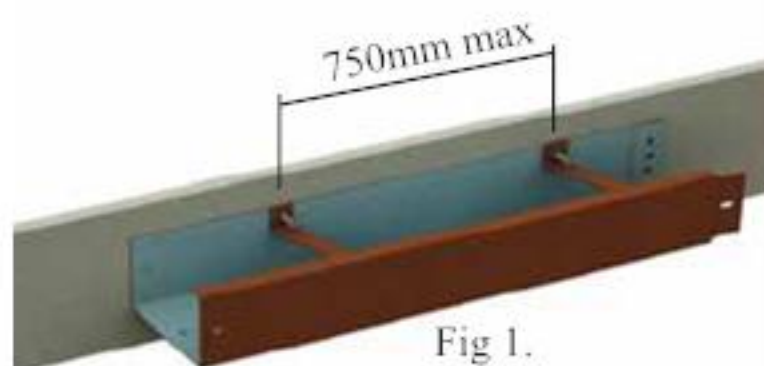


Fig 1.

“Legion” Pressed Box Gutter

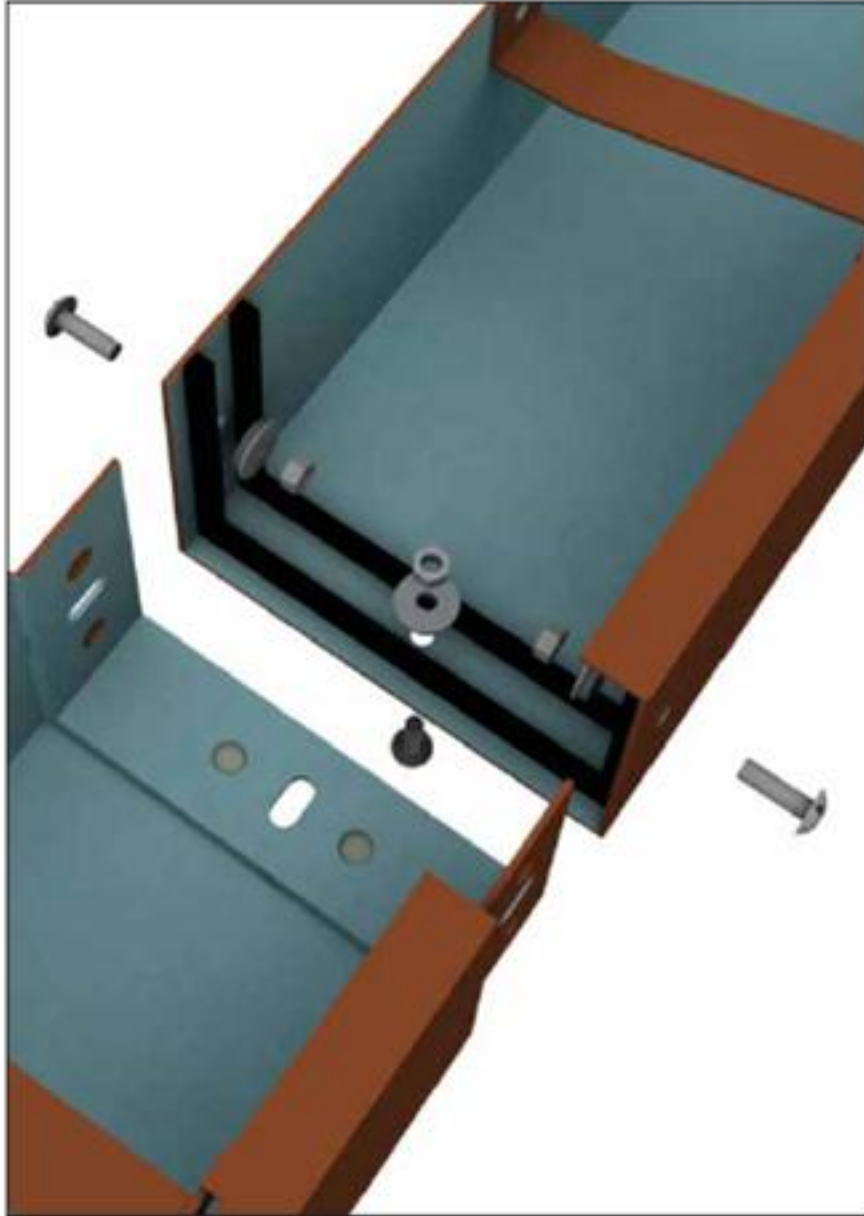


Fig 2.

Jointing:

Aluminium has a coefficient of expansion equal to 0.00002348mm per °C on average, this equates to just over 1.4mm per metre on a temperature range of -20°C to +40°C. Typically a 3mm to 4mm expansion gap between the ends of the gutter sections is advisable.

ARP recommend & supply Arbosil 1096 Low Modulus Silicone sealant (in certain situations Arbosil 1090 sealant may be preferable, please consult technical department) & it is essential that this or a direct equivalent is used to seal the joints as this will ensure a strong mechanical bond that withstands the forces associated with thermal movement.

It is important to observe the sealant manufacturers guidelines concerning application & curing during cold or damp weather conditions & that before assembling the joint, all surfaces are clean & free from grease, acetone applied with a soft cloth & wiped dry is recommended.

Pressed box gutters gutters have integral union connectors (joggle joint) that are secured using M6 x 20mm aluminium bolts, neoprene washers & nuts.

Having sited the gutter apply 2 x 6mm beads of Arbosil 1096 Low Modulus Silicone sealant to the plain end of the gutter

(Fig 2.), position the adjoining gutter spigot over the prepared joint.. Carefully insert the bolts, applying sealant to the thread & round the slot in the union, fit the washers & nuts, gently tightening until some sealant emerges & leaving a 3mm thick sandwich of sealant between the union connector & the gutter. Excess sealant should then be removed.

Touch up paint is supplied to touch up all site

“Legion” Pressed Box Gutter

Composition & Manufacture:

‘Legion’ pressed box Gutters are manufactured from Aluminium sheet 1050AH14 & the product complies to, or exceeds all relevant standards.

Fittings for the gutters are formed using fabrication methods involving cut,mitre & welding techniques using specially made jig & forming tools.

Finish:

Mill Finish Aluminium or Polyester Powder Coated to a range of BS or RAL Colours.

Model Specification:

ARP ‘Legion’ Gutters & fittings to BS 2997 (EN612) using 1050AH14 grade aluminium sheet. Profile to be box gutter, size 100x75mm (1.5mm), 125x100 (1.5mm), 150x100 (1.5mm), 150x150 (2mm), 200x150mm (2mm).*

Materials to have factory applied Polyester Powder Coat to all significant surfaces in accordance with BS EN 12206 Matt/Satin/Gloss* finish, or alternatively plain aluminium Mill Finish. All to be supplied by Aluminium Roofline Products Ltd, Unit 2, Vitruvius Way, Meridian Business Park, Braunstone, Leicester LE19 1WA. Tel 0116 2894400 Fax 0116 2894433.

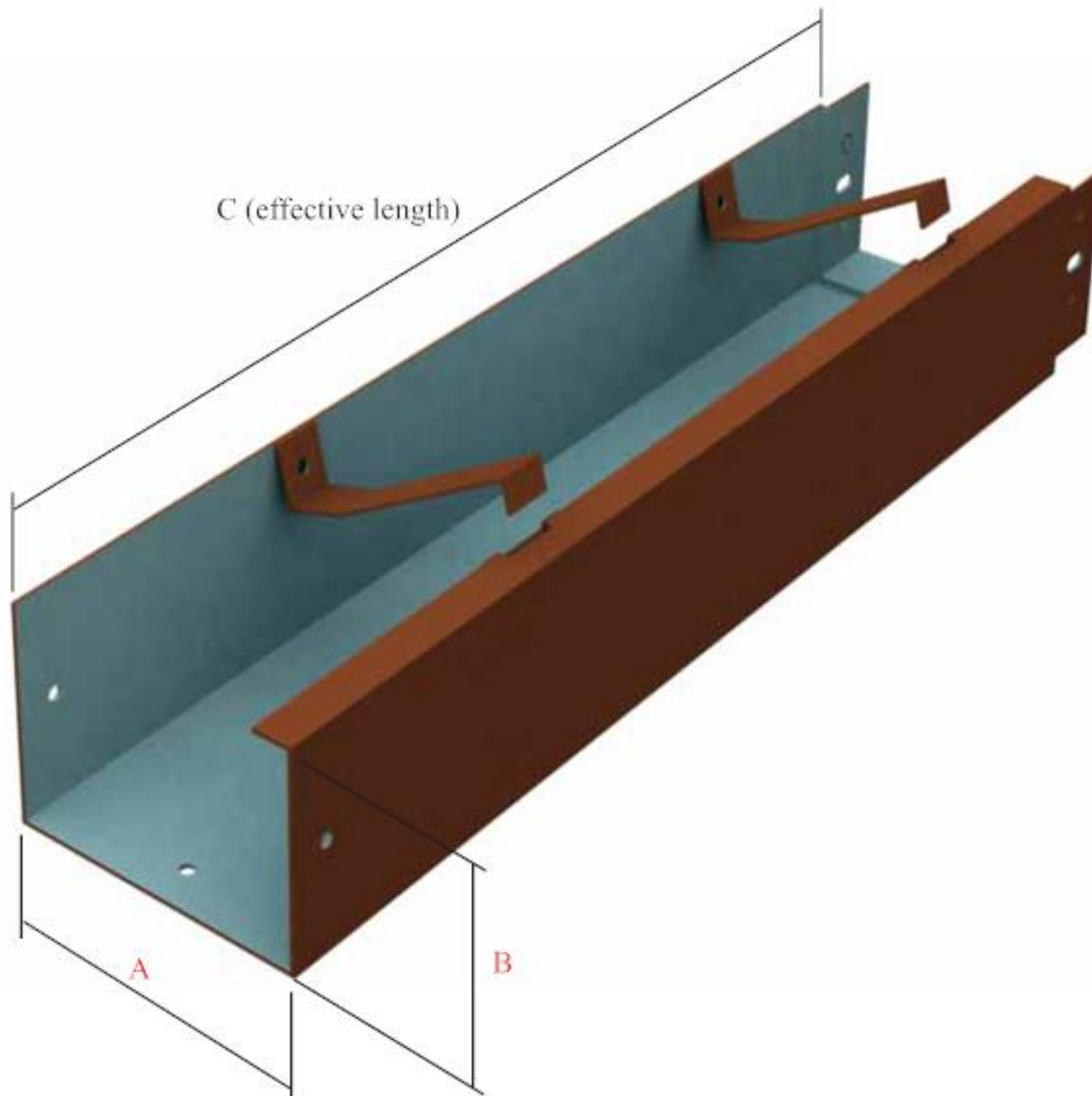
Joints to be joggle joint union sealed by application of Arbosil 1096 Low Modulus Silicone Sealant & fastened by M6 x 20mm bolts, neoprene washers & nuts in accordance with the manufacturer’s specification & guidelines. Gutter to be fixed by fascia brackets at 750mm centres with supplementary brackets at or near fittings. Fixing for brackets to be 5mm x 25mm countersunk stainless steel screws (dependant on substrate).

* Delete as appropriate



“Legion” Pressed Box Gutter

Gutter Lengths



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| A | B | Code | Code | Code | Code | Code |
|------|------|---------|----------|--------|--------|----------|
| (mm) | (mm) | C=2.94m | C=2.5m | C=2.0m | C=1.0m | C=0.5m |
| 100 | 75 | 43BG3S | 43BG2.5S | 43BG2S | 43BG1S | 43BG0.5S |
| 125 | 100 | 54BG3S | 54BG2.5S | 54BG2S | 54BG1S | 54BG0.5S |
| 150 | 100 | 64BG3S | 64BG2.5S | 64BG2S | 64BG1S | 64BG0.5S |
| 150 | 150 | 66BG3S | 66BG2.5S | 66BG2S | 66BG1S | 66BG0.5S |
| 200 | 150 | 86BG3S | 86BG2.5S | 86BG2S | 86BG1S | 86BG0.5S |



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Braunstone
Leicester
LE19 1WA

Tel: 0116 2894400

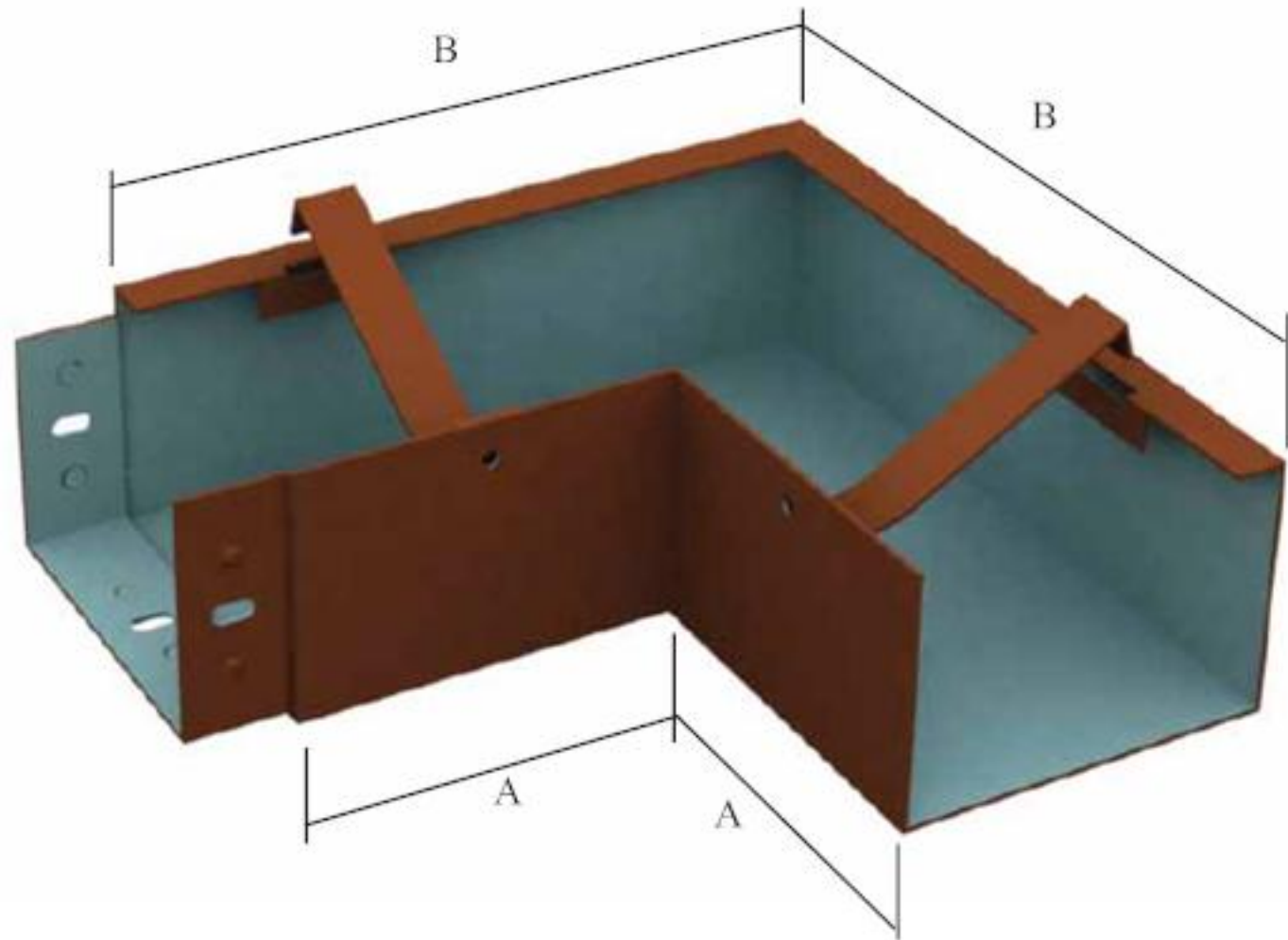
Fax: 0116 2894433

E-mail: sales@arp-ltd.com

Web: www.arp-ltd.com

“Legion” Pressed Box Gutter

Gutter Angles



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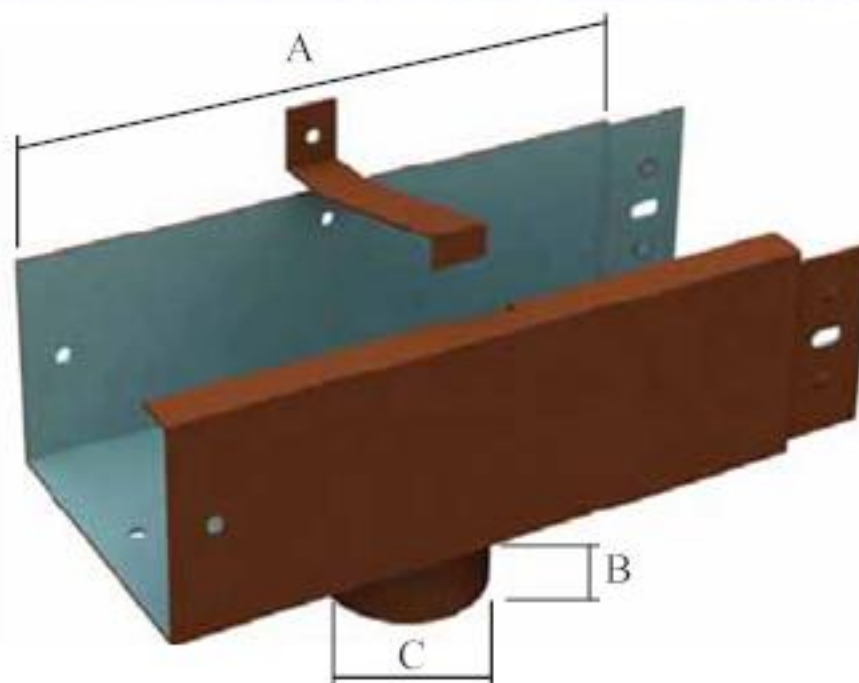
| Gutter Size (mm) | Code | A (mm) | B (mm) | Code | A (mm) | B (mm) |
|------------------|--------------|--------|--------|--------------|--------|--------|
| | 90° External | | | 90° Internal | | |
| 100x75 | 43BAX90 | 150 | 250 | 43BAI90 | 250 | 150 |
| 125x100 | 54BAX90 | 150 | 275 | 54BAI90 | 275 | 150 |
| 150x100 | 64BAX90 | 150 | 300 | 64BAI90 | 300 | 150 |
| 150x150 | 66BAX90 | 150 | 300 | 66BAI90 | 300 | 150 |
| 200x150 | 86BAX90 | 150 | 350 | 86BAI90 | 350 | 150 |

| Gutter Size (mm) | Code | A (mm) | B (mm) | Code | A (mm) | B (mm) |
|------------------|---------------|--------|--------|---------------|--------|--------|
| | 135° External | | | 135° Internal | | |
| 100x75 | 43BAX135 | 150 | 191 | 43BAI135 | 191 | 150 |
| 125x100 | 54BAX135 | 150 | 202 | 54BAI135 | 202 | 150 |
| 150x100 | 64BAX135 | 150 | 212 | 64BAI135 | 212 | 150 |
| 150x150 | 66BAX135 | 150 | 212 | 66BAI135 | 212 | 150 |
| 200x150 | 86BAX135 | 150 | 233 | 86BAI135 | 233 | 150 |

“Legion” Pressed Box Gutter



Outlets



| Gutter Size (mm) | A (mm) | B (mm) | Code C=63mm Ø | Code C=76mm Ø | Code C=101mm Ø | Code C=63mm Sq | Code C=76mm Sq | Code C=101x76 mm | Code C=101mm Sq |
|------------------|--------|--------|---------------|---------------|----------------|----------------|----------------|------------------|-----------------|
| 100x75 | 300 | 60 | 43BO2R | 43BO3R | - | 43BO2S | 43BO3S | 43BO43 | - |
| 125x100 | 300 | 60 | 54BO2R | 54BO3R | 54BO4R | 54BO2S | 54BO3S | 54BO43 | 54BO4S |
| 150x100 | 300 | 60 | 64BO2R | 64BO3R | 64BO4R | 64BO2S | 64BO3S | 64BO4 | 64BO4S |
| 150x150 | 300 | 60 | 66BO2R | 66BO3R | 66BO4R | 66BO2S | 66BO3S | 66BO43 | 66BO4S |
| 200x150 | 300 | 60 | 86BO2R | 86BO3R | 86BO4R | 86BO2S | 86BO3S | 86BO43 | 86BO4S |



Stopends

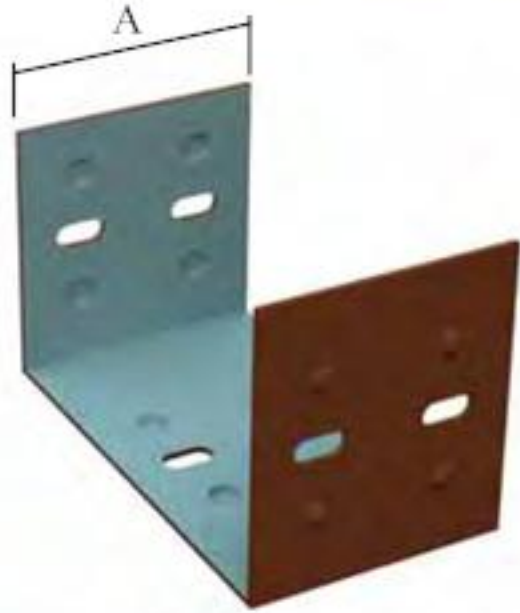


| Gutter Size (mm) | A (mm) | Code L/H | Code R/H |
|------------------|--------|----------|----------|
| 100x75 | 150 | 43BSEL | 43BSER |
| 125x100 | 150 | 54BSEL | 54BSER |
| 150x100 | 150 | 64BSEL | 64BSER |
| 150x150 | 150 | 66BSEL | 66BSER |
| 200x150 | 150 | 86BSEL | 86BSER |

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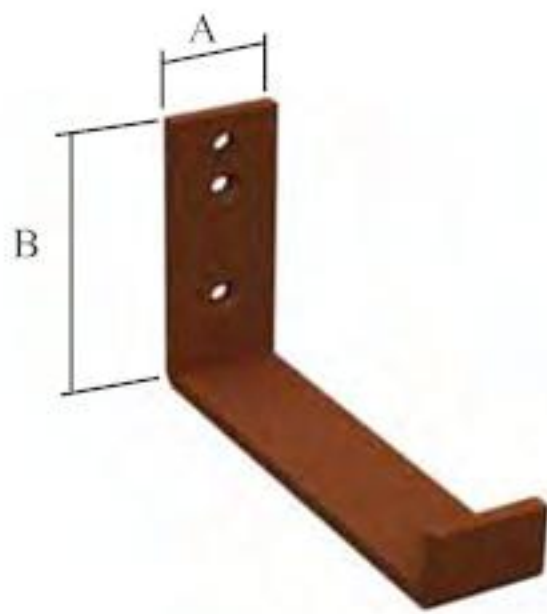
“Legion” Pressed Box Gutter

Union Connectors



| Gutter Size (mm) | A | Code |
|------------------|----|-------|
| 100x75 | 80 | 43BUC |
| 125x100 | 80 | 54BUC |
| 150x100 | 80 | 64BUC |
| 150x150 | 80 | 66BUC |
| 200x150 | 80 | 86BUC |

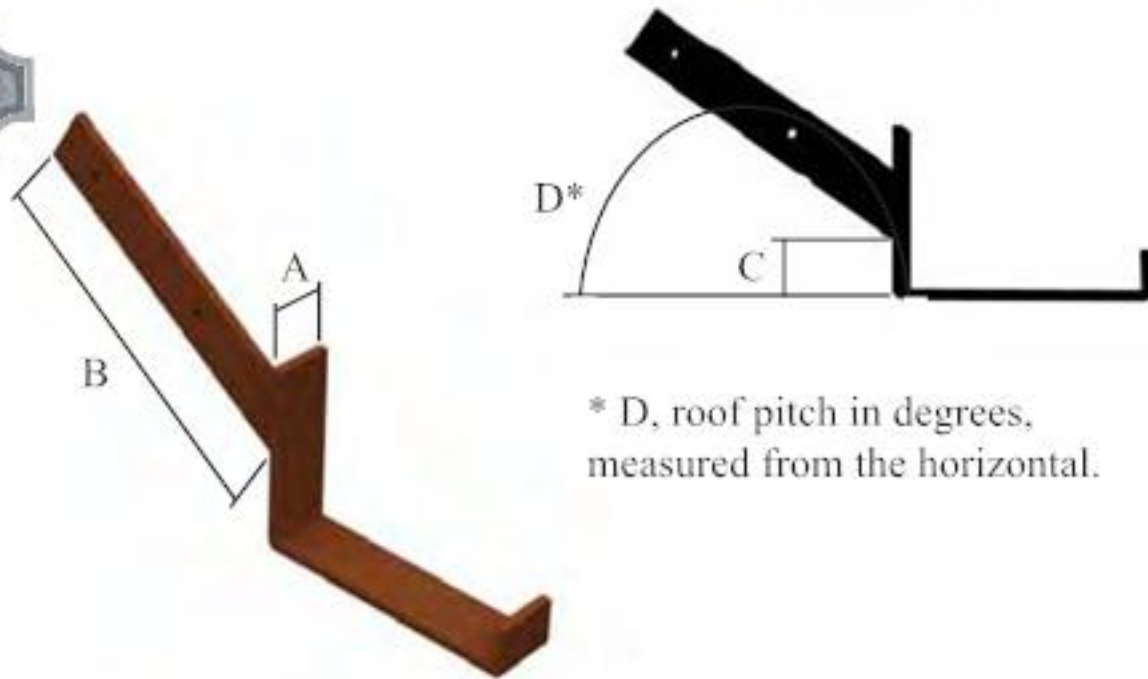
Fascia Brackets



| Gutter Size (mm) | A (mm) | B (mm) | Code |
|------------------|--------|--------|-------|
| 100x75 | 38 | 81 | 43BBF |
| 125x100 | 38 | 106 | 54BBF |
| 150x100 | 38 | 106 | 64BBF |
| 150x150 | 38 | 156 | 66BBF |
| 200x150 | 38 | 156 | 86BBF |

“Legion” Pressed Box Gutter

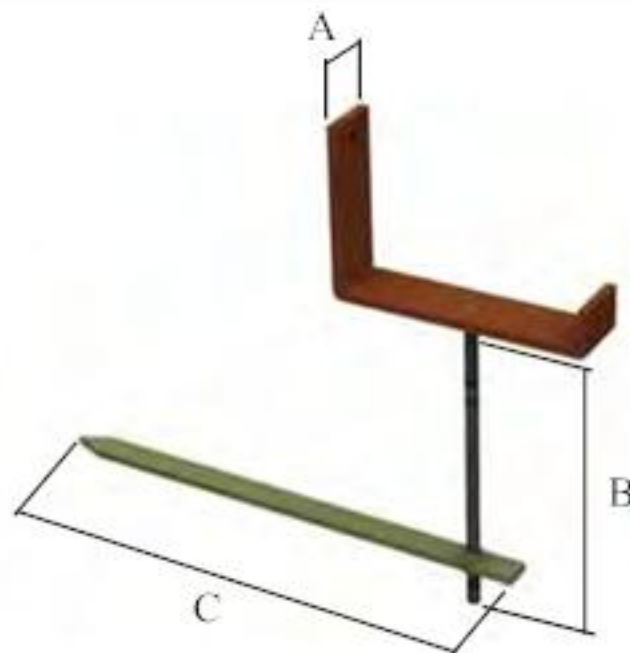
Rafter Bracket



* D, roof pitch in degrees, measured from the horizontal.

| Gutter Size (mm) | A (mm) | B (mm) | C (mm) | D ° | Code Side Fix | Code Top Fix |
|------------------|--------|--------|--------|---------|---------------|--------------|
| 100x75 | 38 | 230 | 30 | Specify | 43BBRS | 43BBRT |
| 125x100 | 38 | 230 | 40 | Specify | 54BBRS | 54BBRT |
| 150x100 | 38 | 230 | 40 | Specify | 64BBRS | 64BBRT |
| 150x150 | 38 | 230 | 65 | Specify | 66BBRS | 66BBRT |
| 200x150 | 38 | 230 | 65 | Specify | 86BBRS | 86BBRT |

Rise & Fall Bracket



| Gutter Size (mm) | A (mm) | B (mm) | C (mm) | Code |
|------------------|--------|--------|--------|---------|
| 100x75 | 38 | 200 | 330 | 43BBRFS |
| 125x100 | 38 | 200 | 330 | 54BBRFS |
| 150x100 | 38 | 200 | 330 | 64BBRFS |
| 150x150 | 38 | 200 | 330 | 66BBRFS |
| 200x150 | 38 | 200 | 330 | 86BBRFS |

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“Legion” Pressed Box Gutter

Profiles

ARP offer a range of Box Gutter profiles available in either joggle joint or conventional jointing, examples shown below.

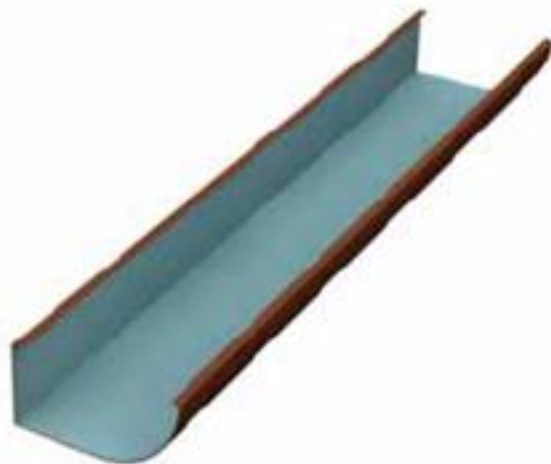
Bespoke gutters are manufactured to order, please advise requirements.



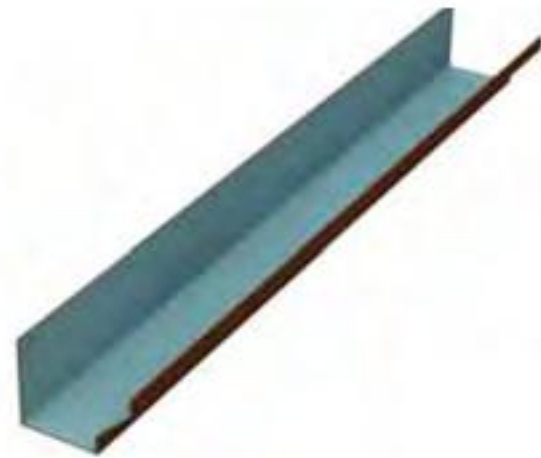
Box c/w Apron



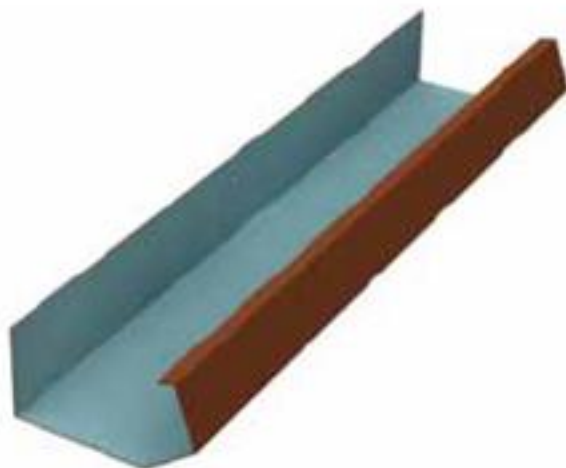
Simple Ogee



Radius Front



Angled Face



Parapet



Angled Box

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“Trueline”
Fascia & Soffit

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“Trueline” Fascia & Soffit

Description:

ARP's fascia and soffit profiles are formed in high strength aluminium sheet grade 1050AH14 to suit individual project requirements. Generally Trueline components are fabricated from 2mm or 3mm thick aluminium alloy sheet.

Trueline components can be used behind architectural guttering, or can form an integrated eaves/soffit feature incorporating concealed guttering.

Our fascia range comes in a variety of profiles and girths from 175mm to 900mm. Other profiles and girths available, please contact our technical department to discuss project requirements.

Installation:

Ensure all substrate materials are sound and suitable for fixing to. Starting from suitable position (normally a corner), hold the panel or end in position and fix it using suitable stainless steel fixings according to the material being fixed to. Use internal unions supplied and silicone sealant Arbosil 1096 recommended to join lengths. These may vary dependent on substrate being fixed to. Fixings should be made at 600mm intervals maximum but may require more depending on individual circumstances. It is the installers responsibility to ensure all parts are fitted to a suitable and safe standard. Exposed ends of panels that have been cut and any visible fixings should be painted with touch up paint supplied.



Jointing:

All Fascia and Soffit profiles are supplied with internal unions. These unions are made to follow the internal profile of the part with typically a 3mm gap all round. Apply a 6mm bead of silicone sealant 20mm from the end of the union all round on the side being covered. Place this union under the last part fitted. Apply another 6mm bead of silicone 20mm from the other end. Place the next part over this allowing a 4mm thermal expansion gap and continue to fit the remaining parts in the same way. Ensure any excess silicone is tooled off and finish by placing a bead of silicone in the expansion gap and tooling smooth to ensure a watertight seal. On a 3m length the fixings should be approximately 300mm from each end so no fixings are required through the unions (unless they can fall away). If fixings are used to secure unions ensure they are not overtightened.

Touch up paint is supplied to touch up all site cut edges.

“Trueline” Fascia & Soffit

Composition & Manufacture:

“Trueline” pressed aluminium fascia and soffit profiles are formed in high strength aluminium sheet grade 1050AH14 to suit project requirements & the product complies to or exceeds all relevant standards.

Finish:

The ARP standard colour range has been chosen to complement both traditional and modern building styles and materials.

“Trueline” Fascia & Soffit is supplied in a choice of either RAL or BS colours. Gloss, satin & matt finishes available.



Model Specification:

ARP ‘Trueline’ Fascia, Soffit, Trims & fittings to BS 2997 (EN612) using 1050AH14 grade aluminium sheet. Fascia, Soffit, Trim profiles and secret fix system, sizes as specified according to installation. Materials to have factory applied Polyester Powder Coat to all significant surfaces in accordance with EN122026 Matt/Satin/Gloss* finish, or alternatively plain aluminium Mill Finish. All to be supplied by Aluminium Roofline Products Ltd, Unit 2, Vitruvius Way, Meridian Business Park, Braunstone, Leicester LE19 1WA. Tel 0116 2894400, Fax 0116 2894433.

Joints to be by internal union sealed by application of Arbosil 1096 Low Modulus Silicone Sealant & fastened by suitable screws i.e 5mm x 25mm long round head self tappers or equivalent Tech screws in accordance with the manufacturer’s specification & guidelines. Direct fixed at 600mm centres with additional fixings at fittings as required.

* Delete as appropriate

Notes:

Closing trims available.

Venting is available for our soffit range.

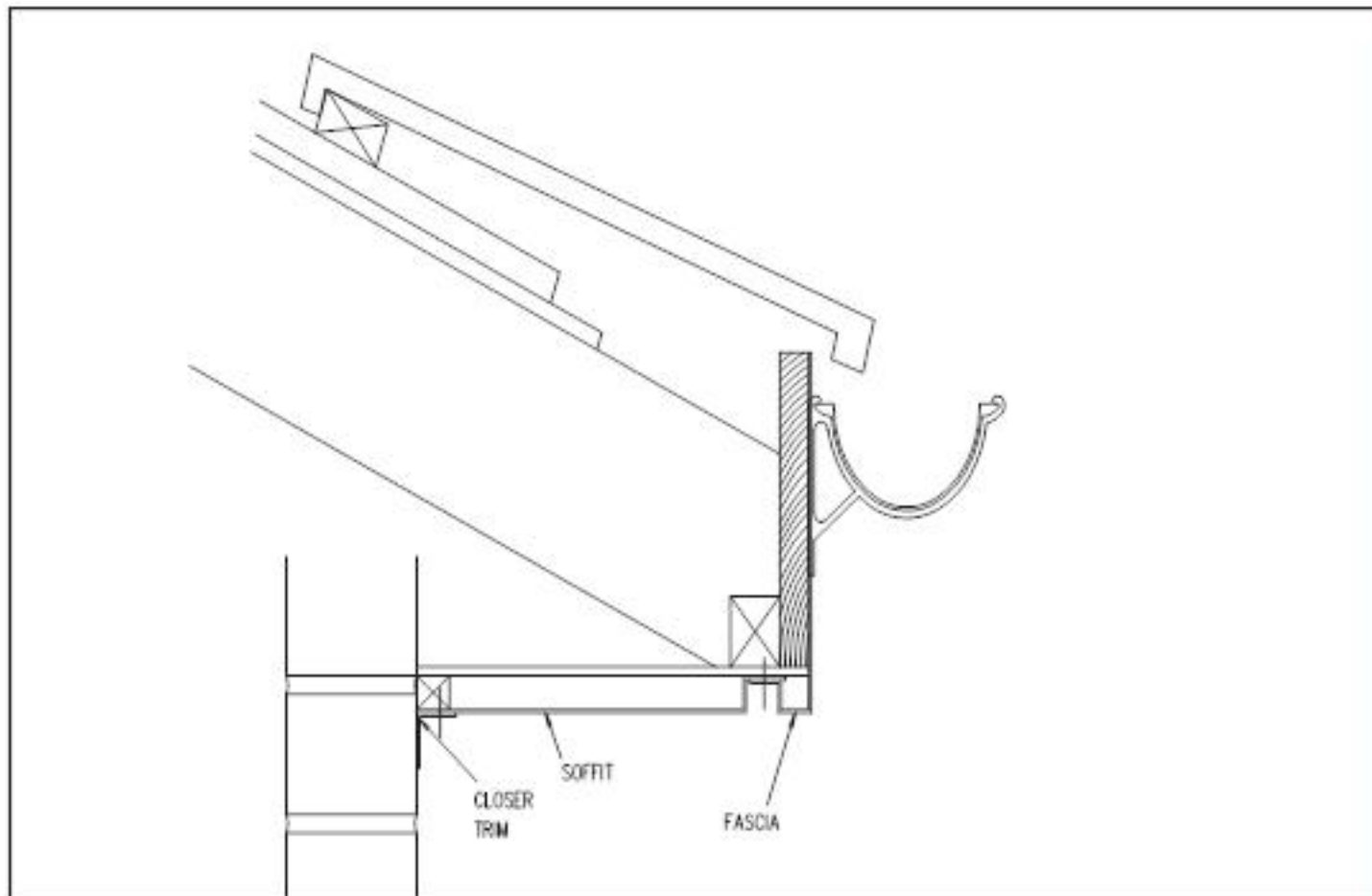
Standard girths detailed. Other profiles available, please enquire.

Fascia & Soffit

“Trueline” Fascia & Soffit

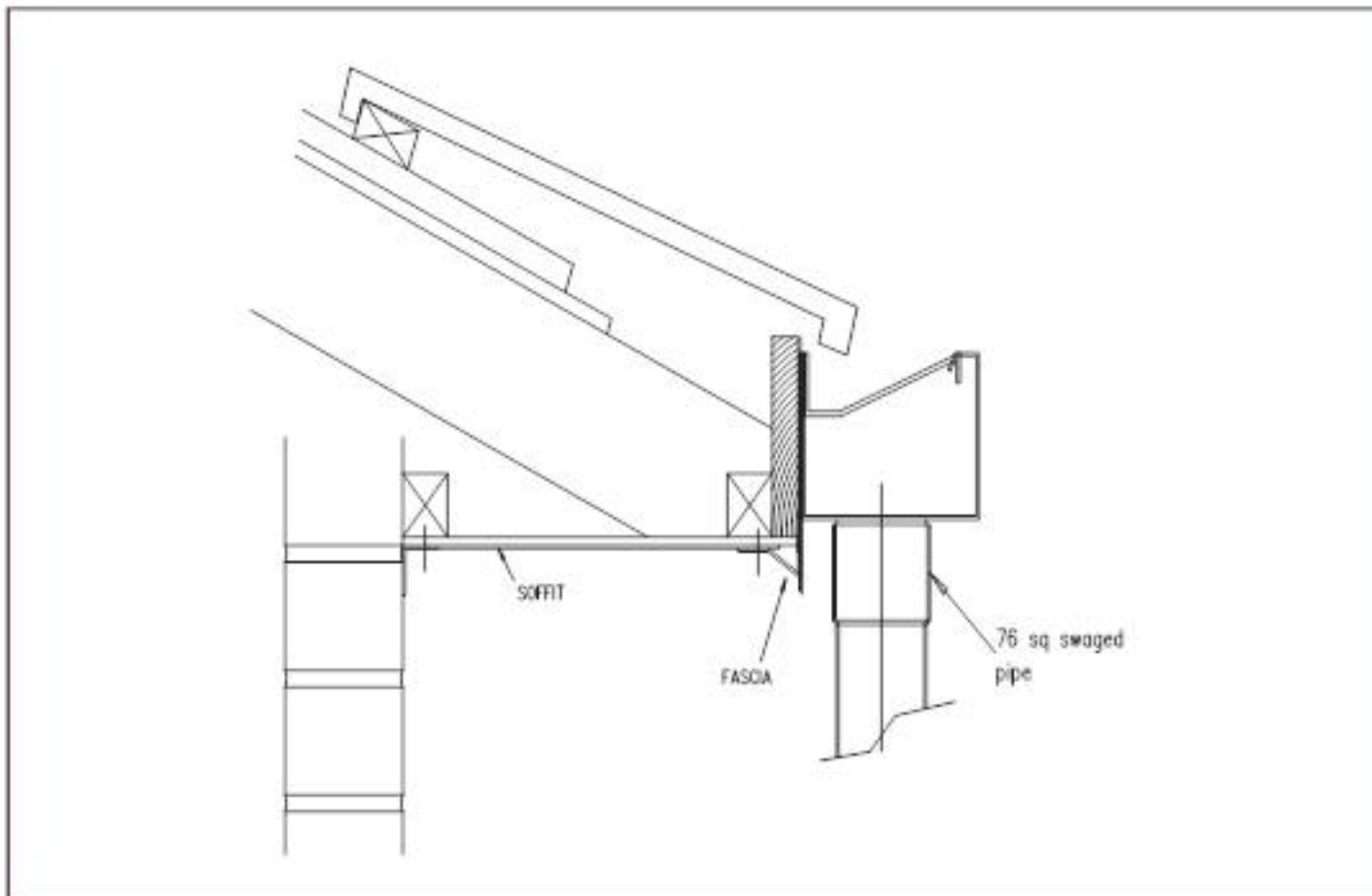
Square Return Fascia and Top Hat Soffit

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“Trueline” Fascia & Soffit

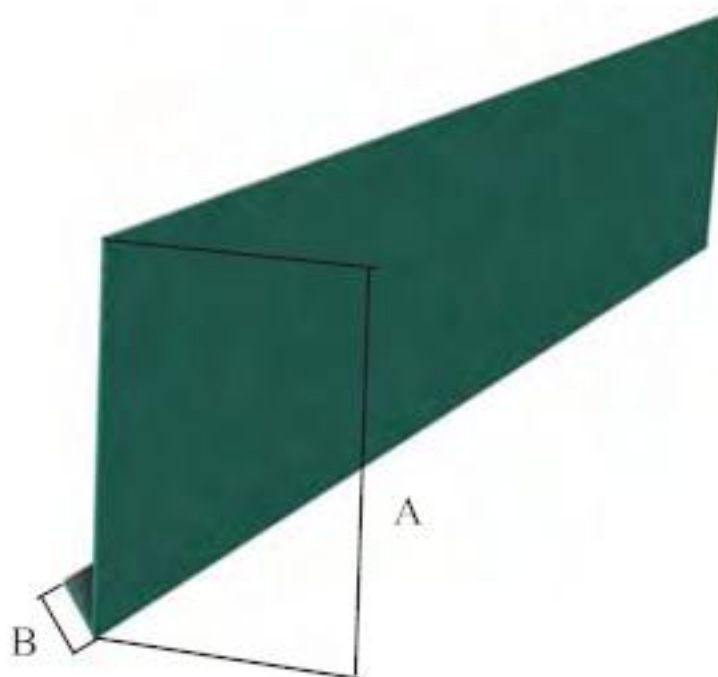
Drip Edge Fascia and Flat Soffit



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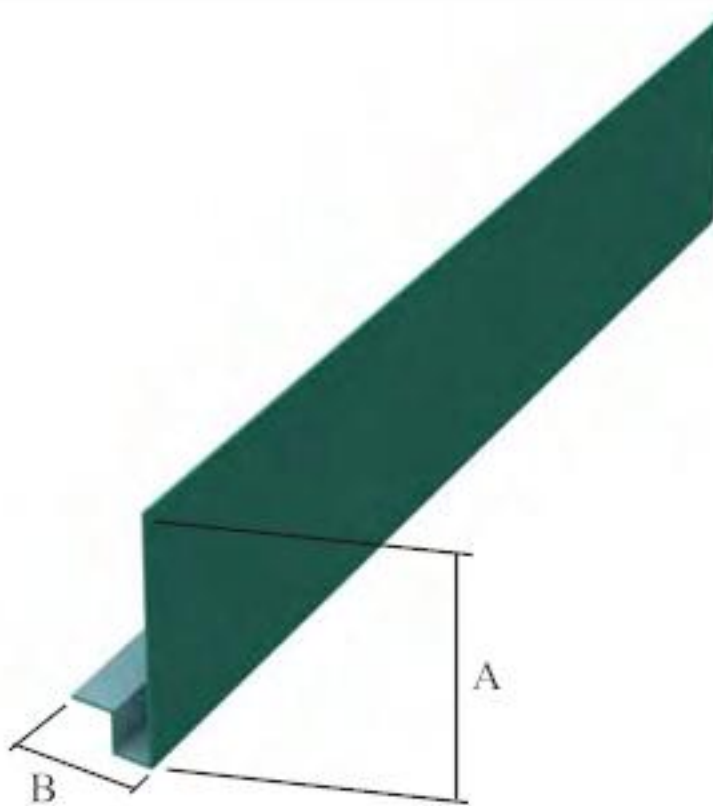
“Trueline” Fascia & Soffit

Type 1: Drip Edge



| Fascia Size | A | B | Code |
|-------------|------|------|-----------|
| 3m length | (mm) | (mm) | |
| | 175 | 12 | FC1-175/3 |
| | 250 | 12 | FC1-250/3 |
| | 325 | 12 | FC1-325/3 |

Type 2: Square Return

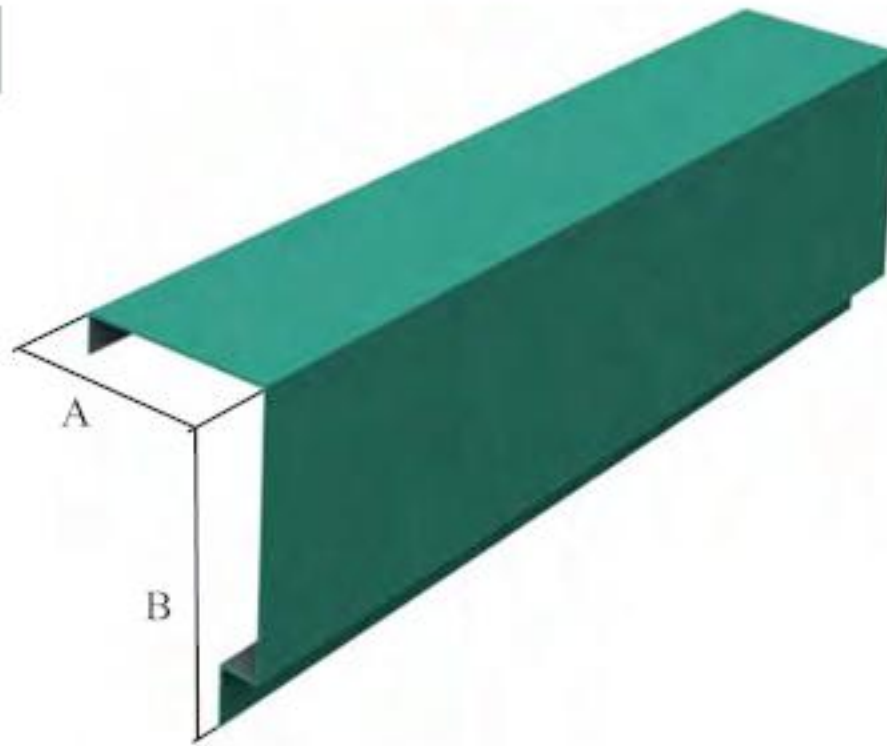


| Fascia Size | A | B | Code |
|-------------|------|------|-----------|
| 3m length | (mm) | (mm) | |
| | 150 | 50 | FC2-225/3 |
| | 225 | 50 | FC1-300/3 |
| | 300 | 50 | FC1-375/3 |

Fascia & Soffit

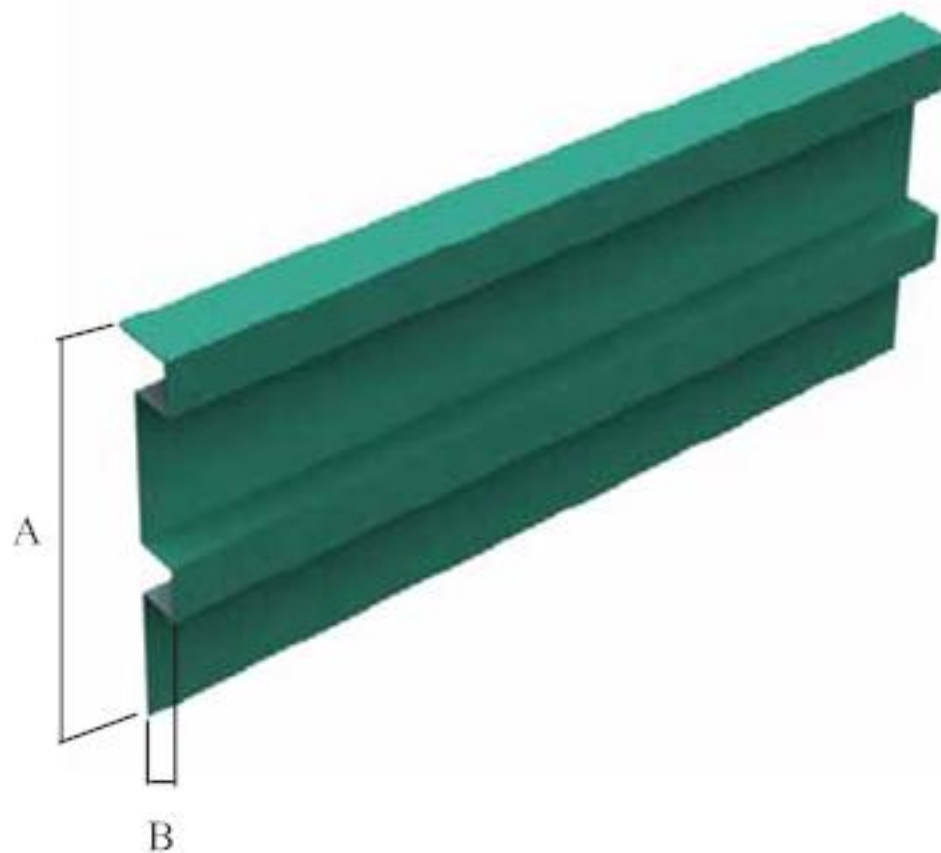
“Trueline” Fascia & Soffit

Type 3: Box Face



| Fascia Size | A | B | Code |
|-------------|------|------|-----------|
| 3m length | (mm) | (mm) | |
| | 100 | 325 | FC3-425/3 |

Type 4: Stepped



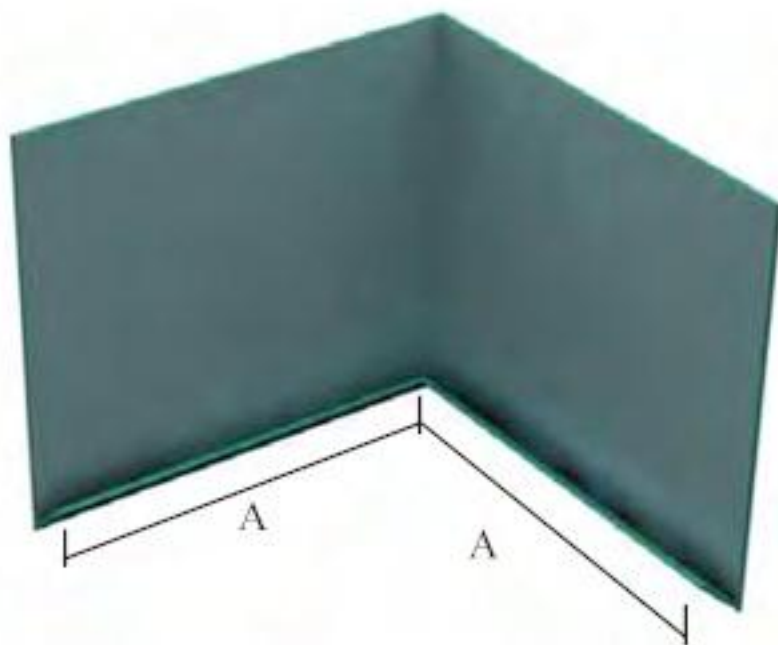
| Fascia Size | A | B | Code |
|-------------|------|------|-----------|
| 3m length | (mm) | (mm) | |
| | 300 | 25 | FC4-730/3 |

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“Trueline” Fascia & Soffit

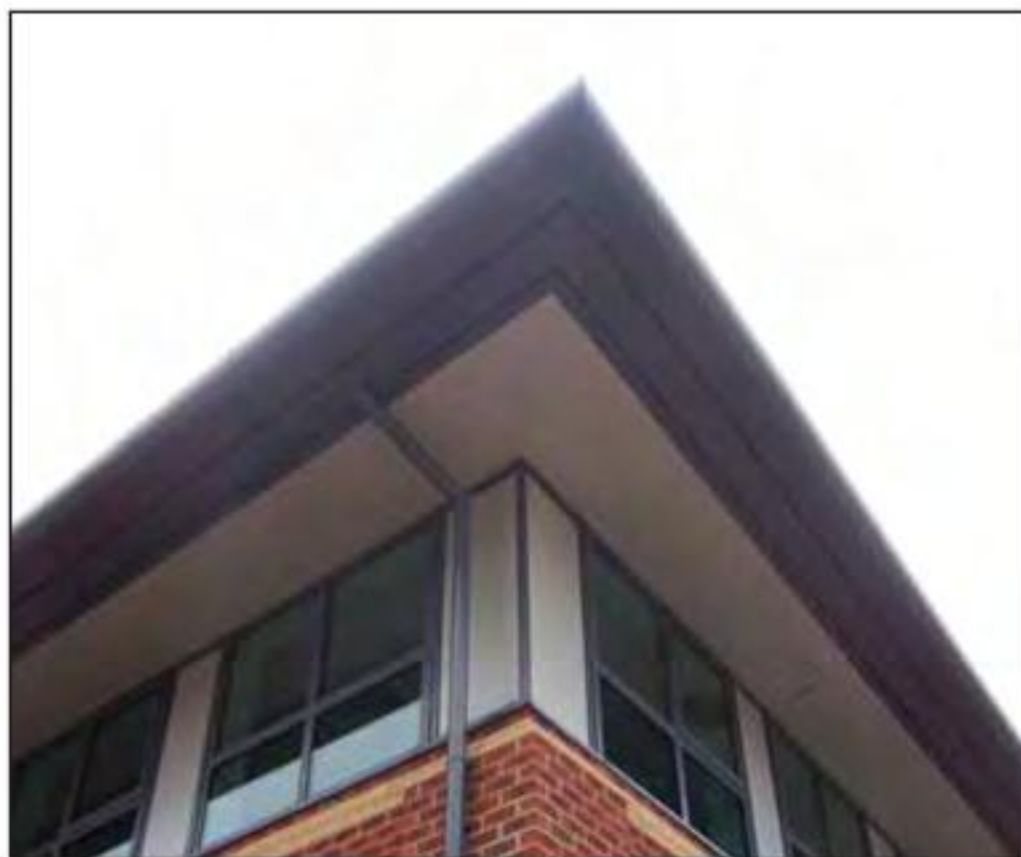


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Typical Corner Detail (All profiles)

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| (mm) |
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LE19 1WA

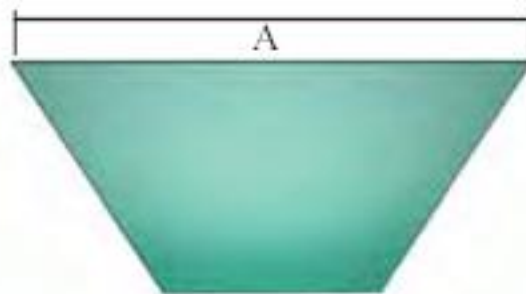
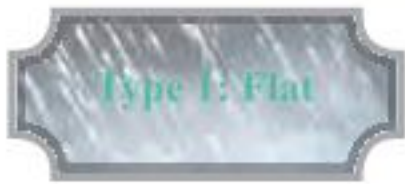
Tel: 0116 2894400

Fax: 0116 2894433

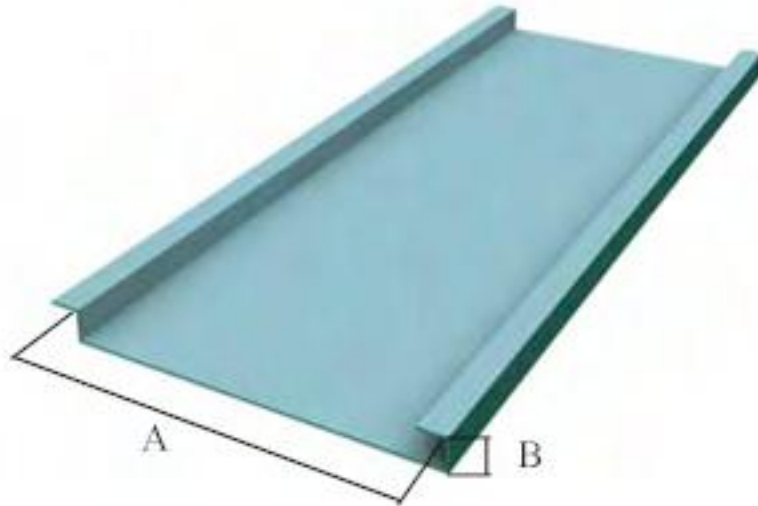
E-mail: sales@arp-ltd.com

Web: www.arp-ltd.com

“Trueline” Fascia & Soffit



| Soffit Size | A | Code |
|-------------|------|------------|
| 3m length | (mm) | |
| | 500 | SF3-500/3 |
| | 750 | SF3-750/3 |
| | 1000 | SF3-1000/3 |



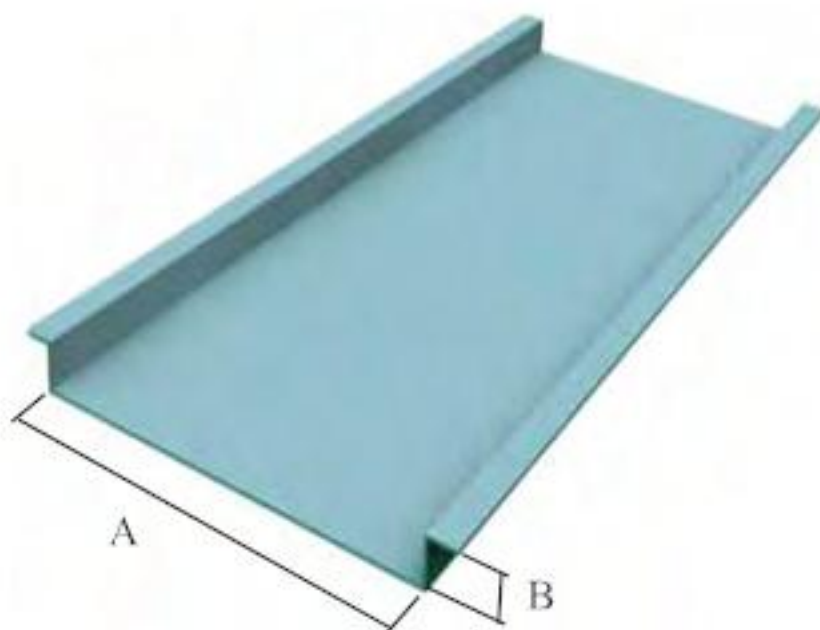
| Soffit Size | A | B | Code |
|-------------|------|------|------------|
| 3m length | (mm) | (mm) | |
| | 500 | 21 | SF3-500/3 |
| | 750 | 21 | SF3-750/3 |
| | 1000 | 21 | SF3-1000/3 |



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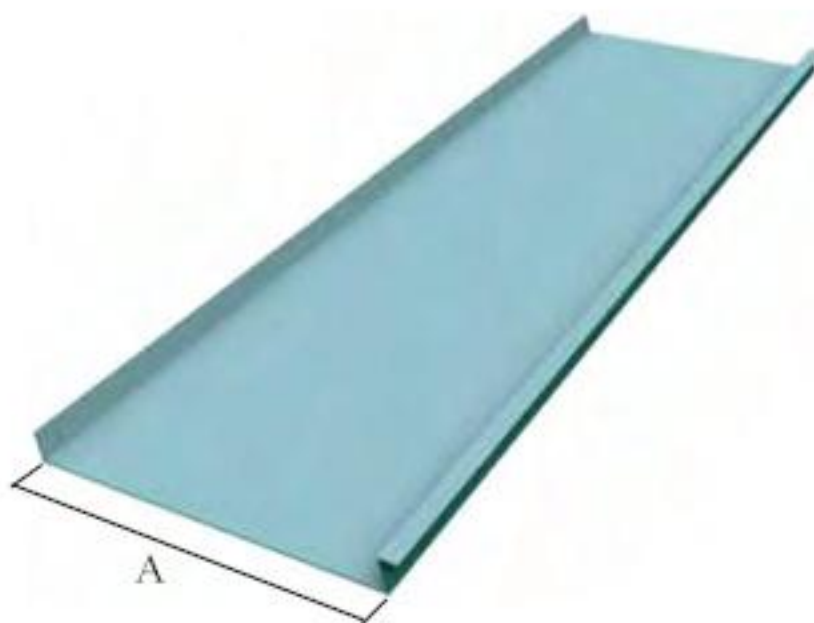
“Trueline” Fascia & Soffit

Type 3: Top Hat



| Soffit Size | A | B | Code |
|-------------|------|------|-----------|
| 3m length | (mm) | (mm) | |
| | 250 | 25 | SF3-250/3 |
| | 350 | 25 | SF3-350/3 |
| | 500 | 25 | SF3-500/3 |

Type 4: Z Plane



| Soffit Size | A | B | Code |
|-------------|------|------|-----------|
| 3m length | (mm) | (mm) | |
| | 200 | 21 | SF4-200/3 |
| | 300 | 21 | SF4-300/3 |
| | 400 | 21 | SF4-400/3 |

Fascia & Soffit

“Trueline”
Bullnose Fascia



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E-mail: sales@arp-ltd.com

Web: www.arp-ltd.com

“Trueline” Bullnose Fascia

B u l l n o s e F a s c i a

Description:

The bullnose fascia range is available in a range of sizes from Ø210mm upwards. It is roll formed from aluminium sheets of 2mm or 3mm to suit project requirements.

With its low maintenance and high durability, Trueline is the ideal range of components with which to emphasise the architectural impact of the building. Bullnose fascia profiles provide a modern and fresh appearance and are a very popular choice.

As well as bullnose fascia being chosen for its aesthetic appeal, it can also be used as an anti climb barrier for security purposes.

Eaves Rainwater System

The combination of ARP's rainwater systems with ARP's eaves products offers a complete, low-maintenance, attractive eaves package. The supply of fascia, soffit and gutter is unique to the design of the building, tailored to suit project requirements. ARP's technical department are on hand to assist in the feasibility and design of any combination of systems. All systems are available in ARP's mill finish or polyester powder coated colours in a matt, satin or gloss finish. A standard range of RAL and BS colours are available (see page 2.) Non standard colours are also available and are priced on application.

Installation:

Ensure all substrate materials are sound and suitable for fixing to. Starting from suitable position (normally a corner) fix the bullnose to either the brackets supplied or direct to the building using suitable fixings (stainless steel recommended). Use internal unions (supplied) and silicone sealant (Arbosil 1096 recommended) to join lengths. Fixings should be made at 600mm intervals maximum but may require more depending on individual circumstances. It is the installers responsibility to ensure all parts are fitted to a suitable and safe standard. Exposed ends of panels that have been cut and any visible fixings should be painted with touch up paint supplied

Jointing:

All Bullnose Fascia profiles are supplied with internal unions. These unions are made to follow the internal profile of the part with a 1mm gap all round. Apply at least a 6mm bead of silicone sealant 20mm from the end of the union on the side being covered. Place this union under the last part fitted. Apply another 6mm bead of silicone 20mm from the other end. Place the next part over this allowing a 4mm thermal expansion gap and continue to fit the remaining parts in the same way. Ensure any excess silicone is tooled off and finish by placing a bead of silicone in the expansion gap and tooling smooth to ensure a watertight seal.

“Trueline” Bullnose Fascia

Composition & Manufacture:

“Trueline” pressed aluminium Bullnose Fascia profiles are formed in high strength aluminium sheet grade 1050AH14 to suit project requirements & the product complies to or exceeds all relevant standards.

Finish:

The ARP standard colour range has been chosen to complement both traditional and modern building styles and materials.

“Trueline” Bullnose Fascia is supplied in a choice of either RAL or BS colours. Gloss, satin & matt finishes available.

Model Specification:

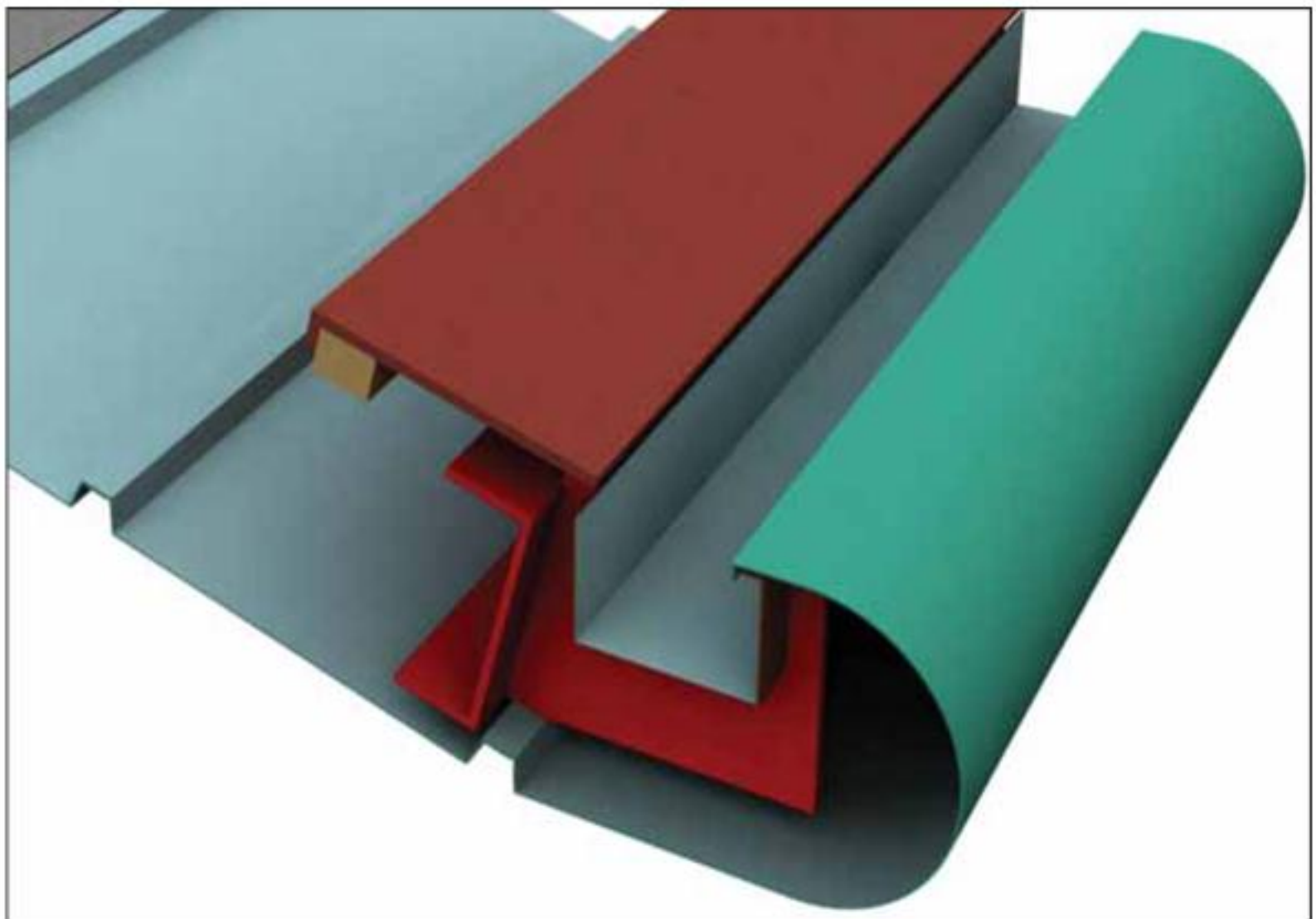
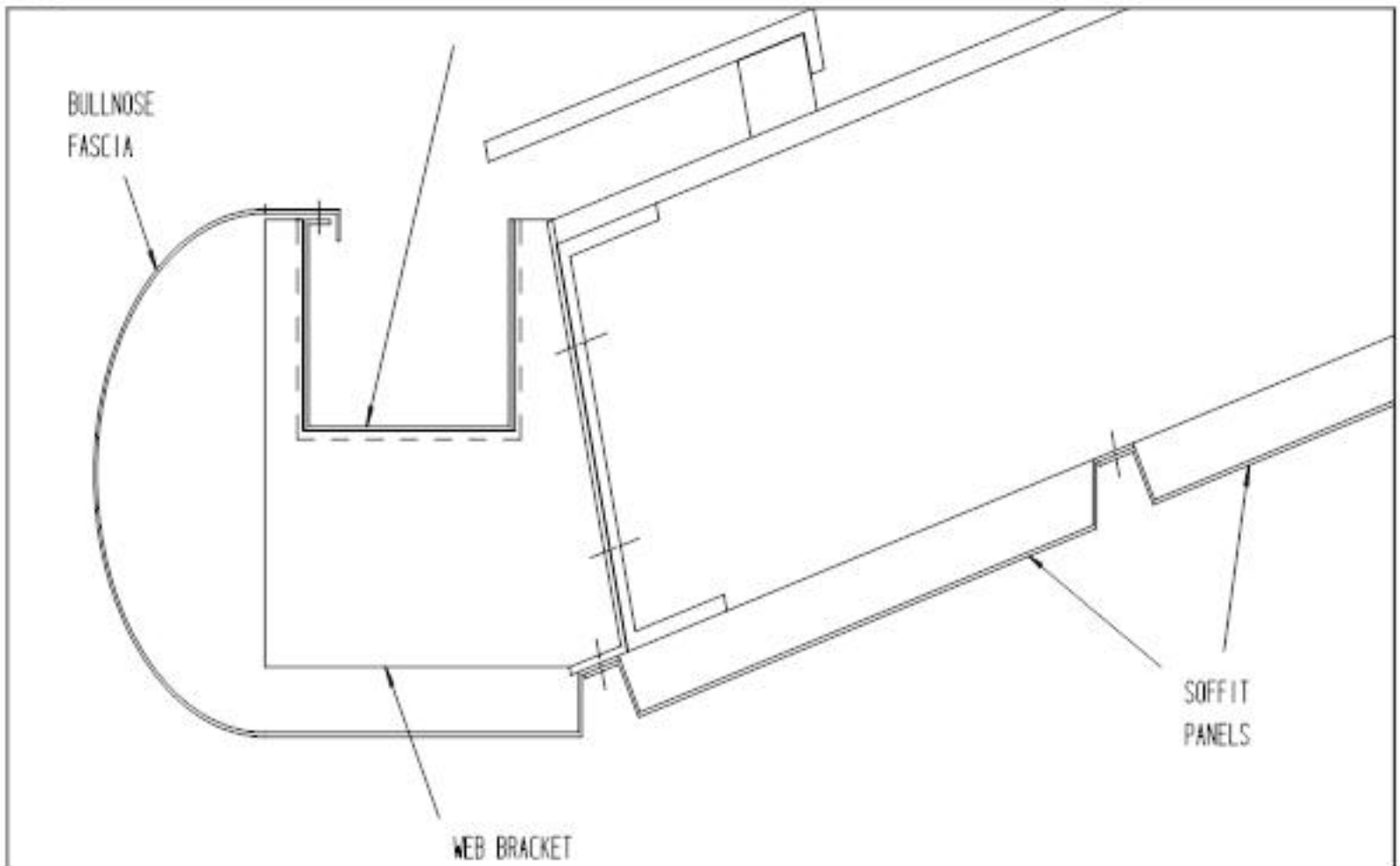
ARP ‘Trueline’ Bullnose Fascia & fittings to BS 2997 (EN612) using 1050AH14 grade aluminium sheet fitted direct to structural components or with special brackets as required. Sizes as specified according to installation. Materials to have factory applied Polyester Powder Coat to all significant surfaces in accordance with BS EN 122026 Matt/Satin/Gloss* finish, or alternatively plain aluminium Mill Finish. All to be supplied by Aluminium Roofline Products Ltd, Unit 2, Vitruvius Way, Meridian Business Park, Braunstone, Leicester LE19 1WA. Tel 0116 2894400, Fax 0116 2894433.



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“Trueline” Bullnose Fascia

Typical Bullnose Fascia



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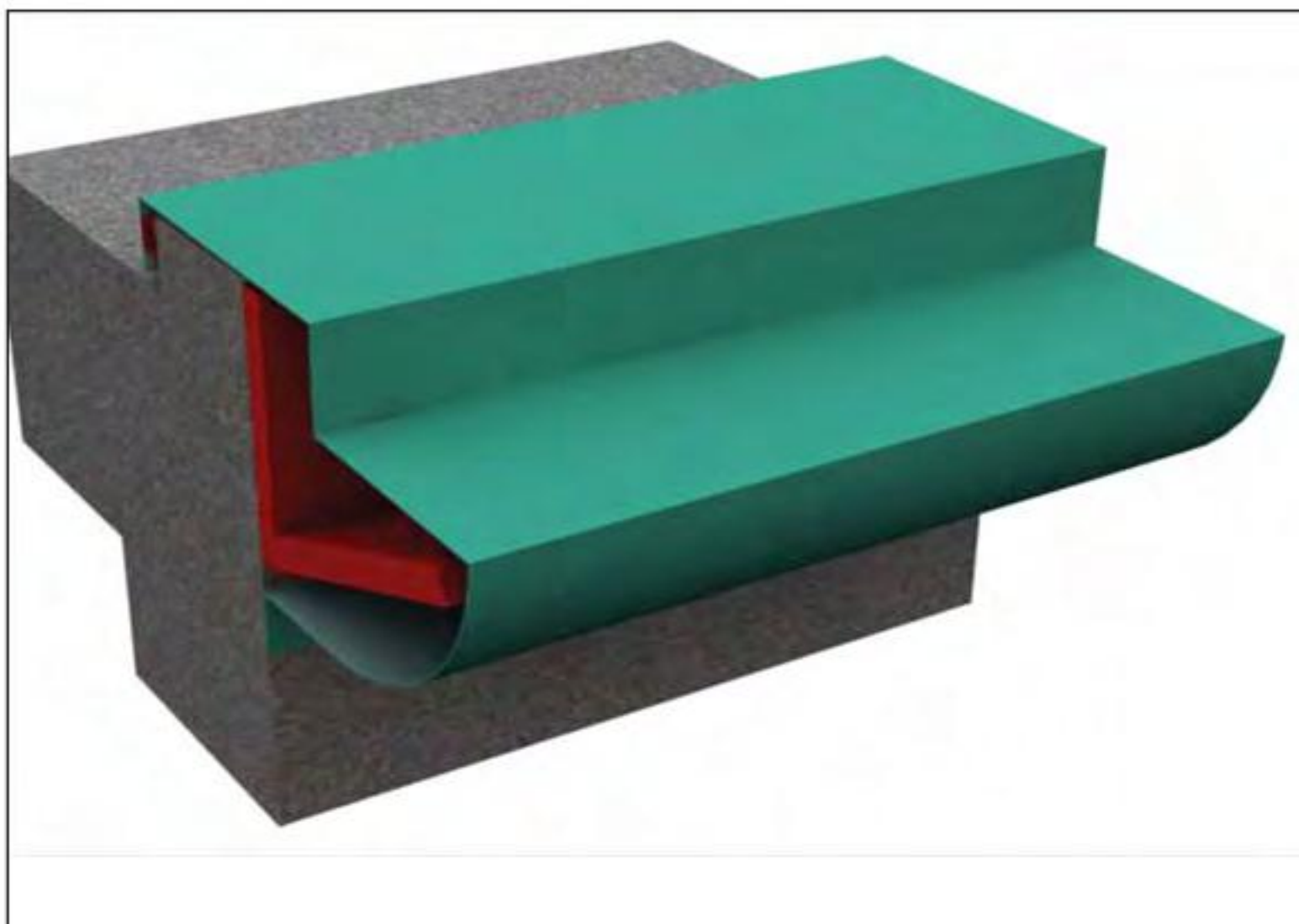
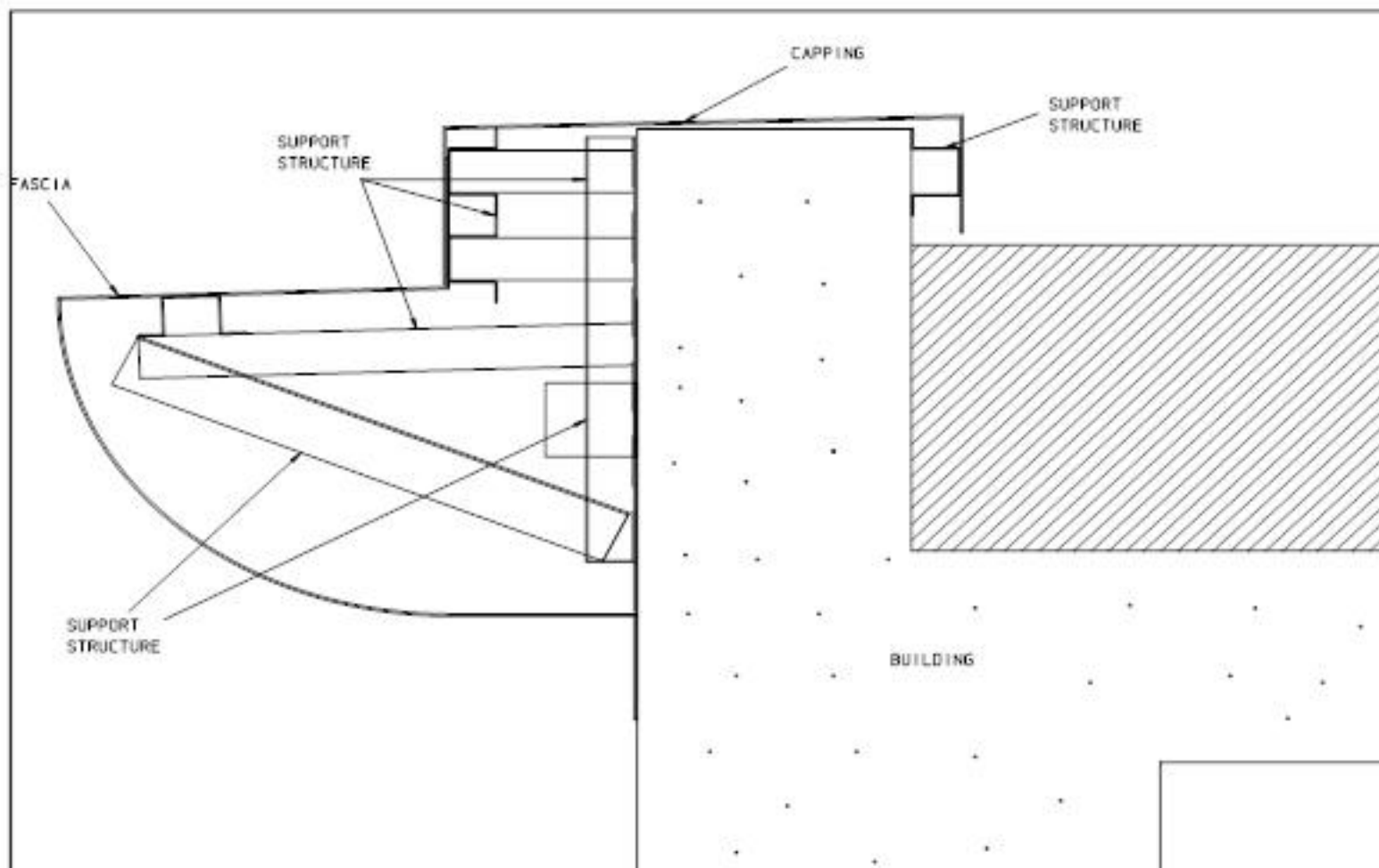
Fax: 0116 2894433

E-mail: sales@arp-ltd.com

Web: www.arp-ltd.com

“Trueline” Bullnose Fascia

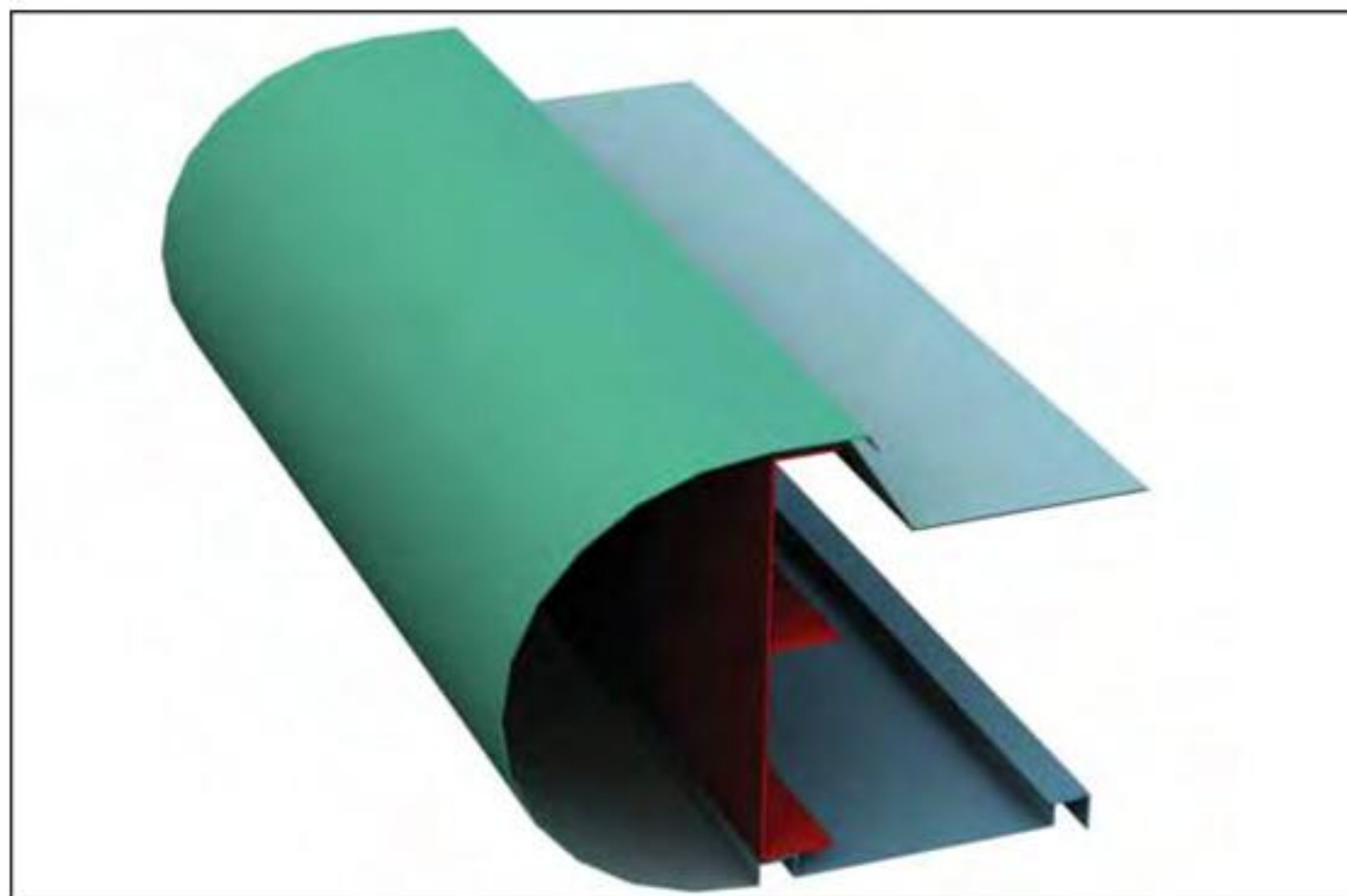
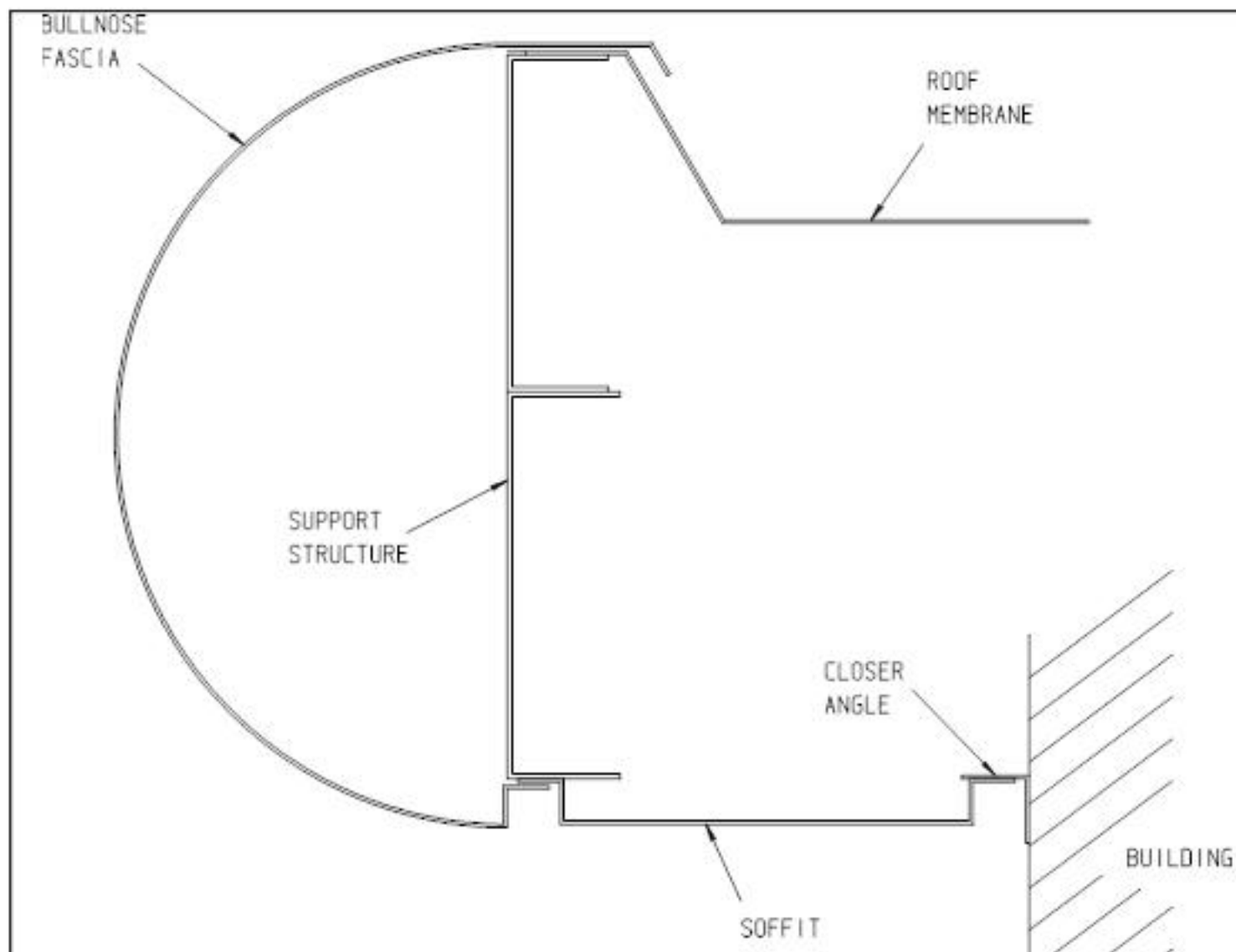
Quadrant Bullnose



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“Trueline” Bullnose Fascia

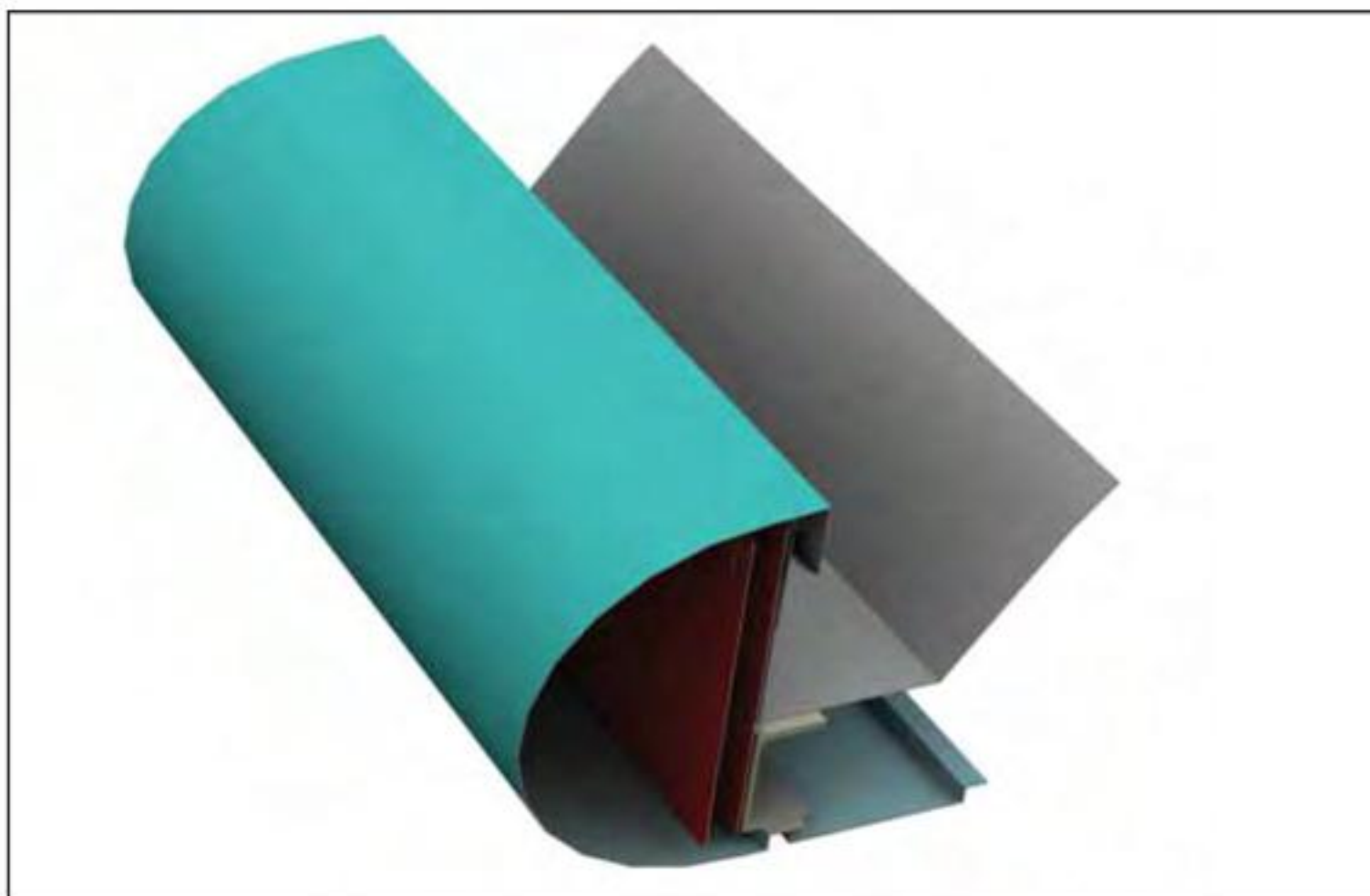
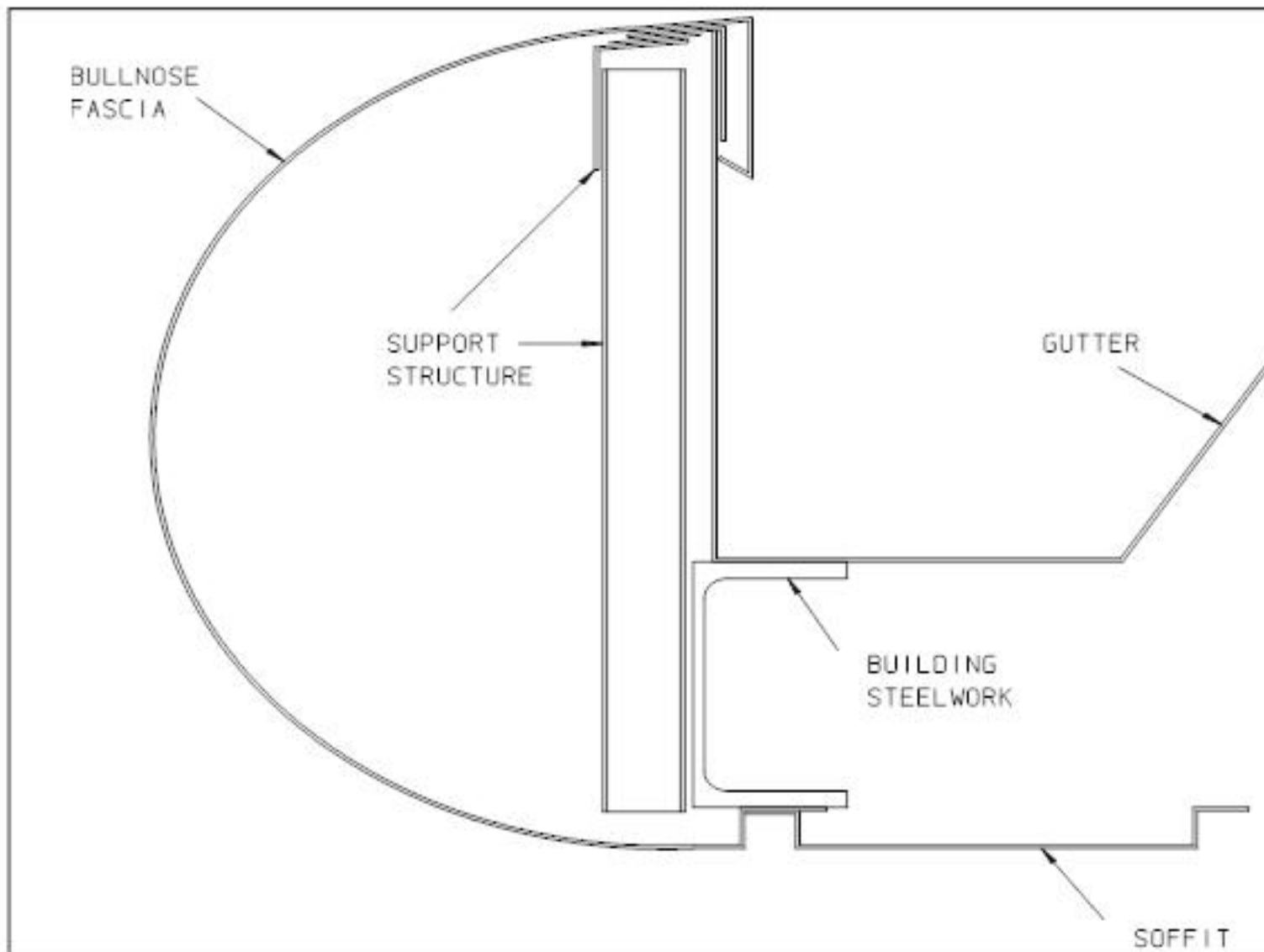
Bullnose Fascia Typical arrangement



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“Trueline” Bullnose Fascia

Bullnose Fascia, Soffit & Gutter System



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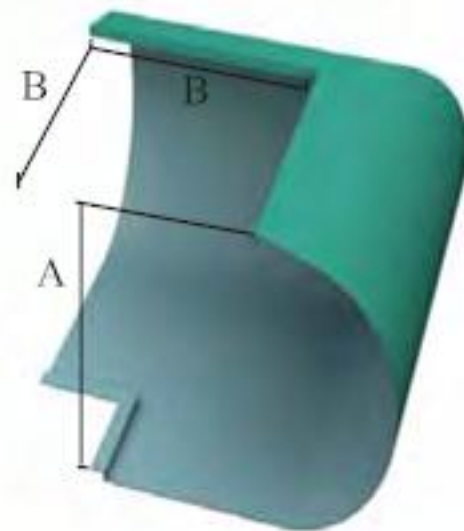
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“Trueline” Bullnose Fascia



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Typical Corner Detail

| Bullnose Size | A | B | Code |
|---------------|-------------|------|------------|
| | Approx (mm) | (mm) | |
| | 325 * | 150 | BN1-600/A |
| | 450 * | 150 | BN1-800/A |
| | 580 * | 150 | BN1-1000/A |

* Dimensions will vary according to design



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“Trueline” Wall Coping



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“Trueline” Wall Coping

Description:

The “Trueline” Wall Coping system provides an economical and easily installed finish to parapet and perimeter walls. Wall Coping is factory finished and dry jointed. A full range of fittings and accessories are available.

Installation & Jointing:

Installation is very simple and quick. Fixing, in most cases can be carried out from the roof so no external access is required. This makes it particularly suitable for renovation work.

All coping parts are supplied with suitable fixing brackets and EPDM sealing tape. For standard “flat” coping these brackets are fitted direct to the wall with 1 bracket positioned under each joint and subsequent brackets spaced 1m apart. At corners one of these brackets should be cut in half to provide a clip for the coping corner piece. At this stage ensure all brackets have EPDM sealing tape applied. Two lengths should be fitted to joint clips, one piece either side of centre inside fixing hole positions. On all other brackets only one strip of tape is required in centre of bracket. All coping parts can then be fitted starting from a corner by “clipping” onto the brackets. To clip a section on, fit the outside lip onto bracket at an angle and then pull inside edge down to clip onto return lip on bracket.



“Trueline” Wall Coping

Composition & Manufacture:

Copings are fabricated from 2mm thick (dependant on girth) aluminium alloy sheet. Fixing straps are pressed 4mm aluminium with extruded EPDM seals bonded to the top surface.

All fabricated fittings (90° angles, non-standard angles, stop ends, closed ends, upstands, 90° T-junctions) are mitred and welded.

Finish:

The ARP standard colour range has been chosen to complement both traditional and modern building styles and materials.

“Trueline” Coping is supplied in a choice of either RAL or BS colours. Gloss, satin & matt finishes available.

Model Specification:

ARP ‘Trueline’ Coping & fittings to BS 2997 (EN612) using 1050AH14 grade aluminium sheet. Coping system to be clip fit secret fix with widths 60mm greater than the wall width and with 75mm downstands with drip returns.

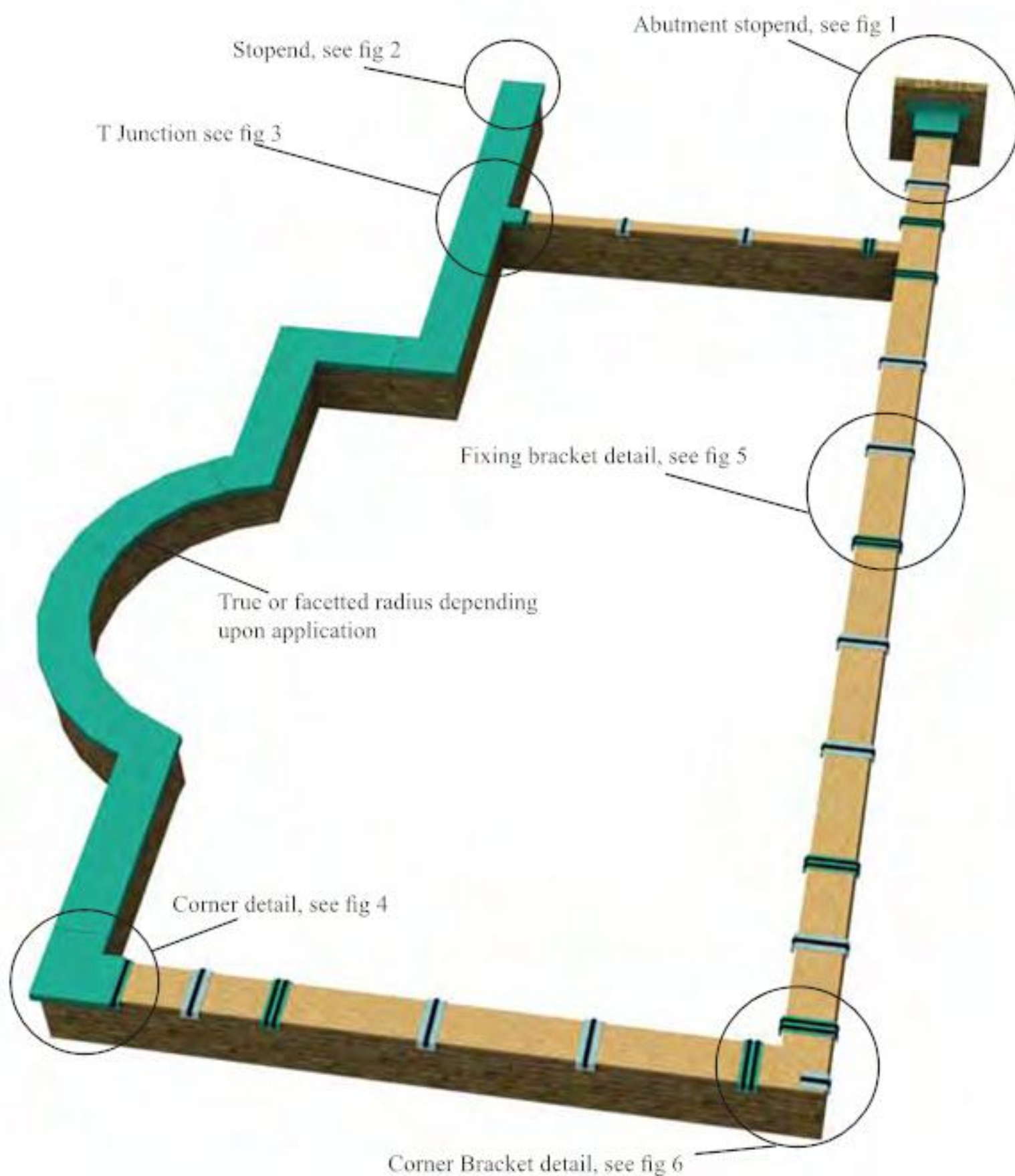
Materials to have factory applied Polyester Powder Coat to all significant surfaces in accordance with BS EN 12206 Matt/Satin/Gloss* finish, or alternatively plain aluminium Mill Finish. All to be supplied by Aluminium Roofline Products Ltd, Unit 2, Vitruvius Way, Meridian Business Park, Braunstone, Leicester LE19 1WA. Tel 0116 2894400, Fax 0116 2894433. Joints to be by internal union connector sealed by application of EPDM tape under each coping edge. Connector to be fixed with 5mm x 40mm long round head screw or equivalent suitable for the substrate being fixed to at 1m centres with supplementary connectors at or near fittings. Half connectors to be used on corners & angles. Touch up paint is supplied to touch up all site cut edges.



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“Trueline” Wall Coping

Typical Flat Coping Layout



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“Trueline” Wall Coping

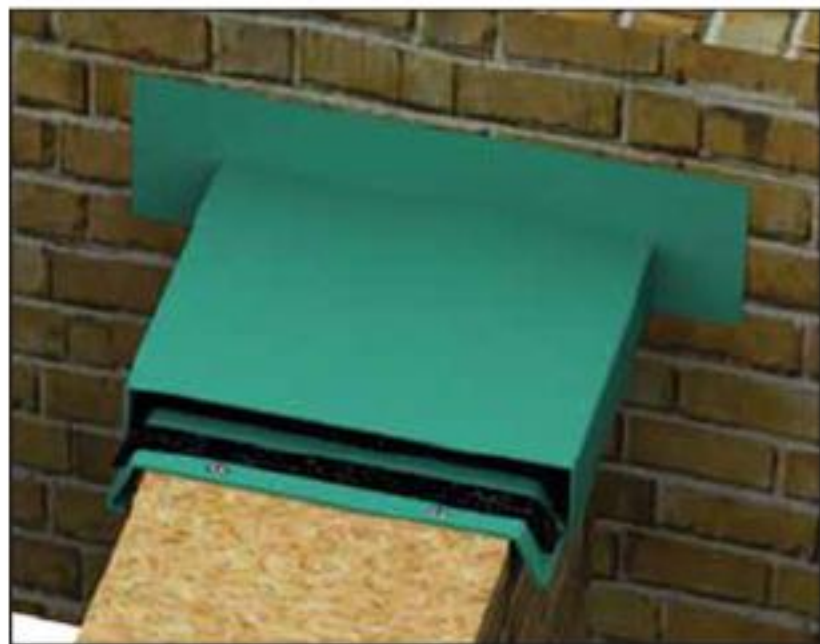


Fig. 1



Fig. 2

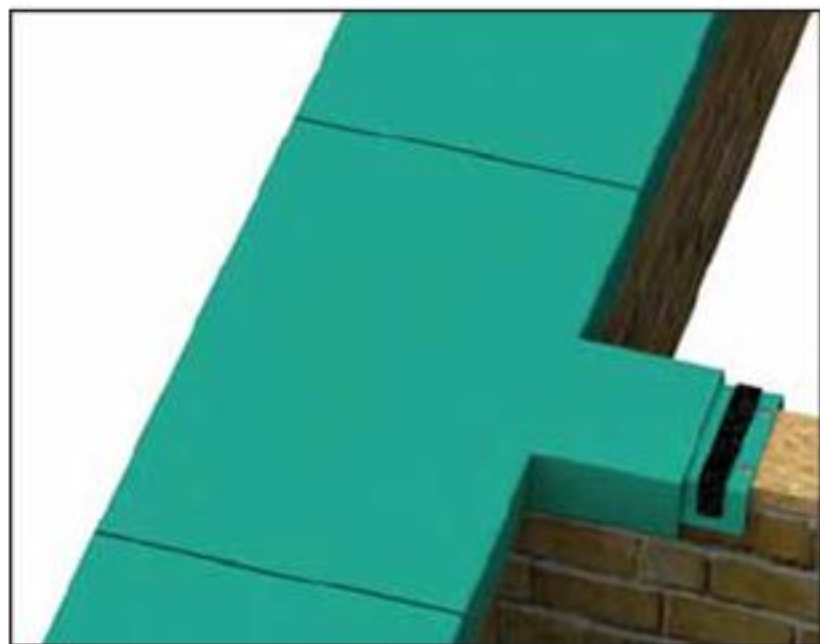


Fig. 3

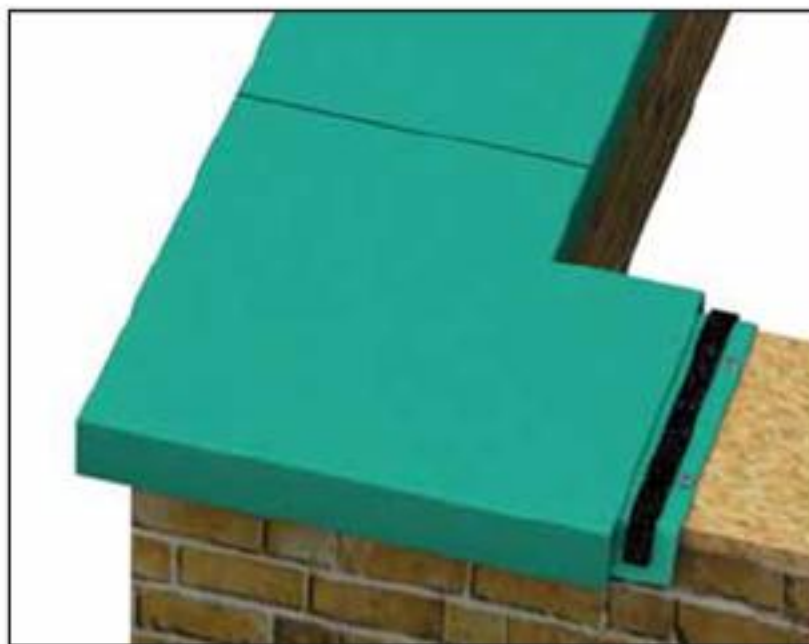


Fig. 4

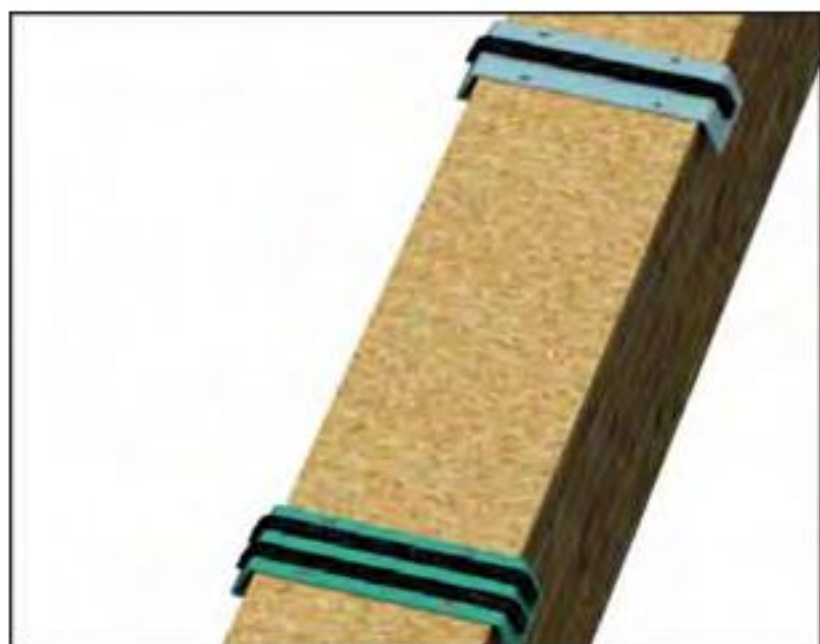


Fig. 5

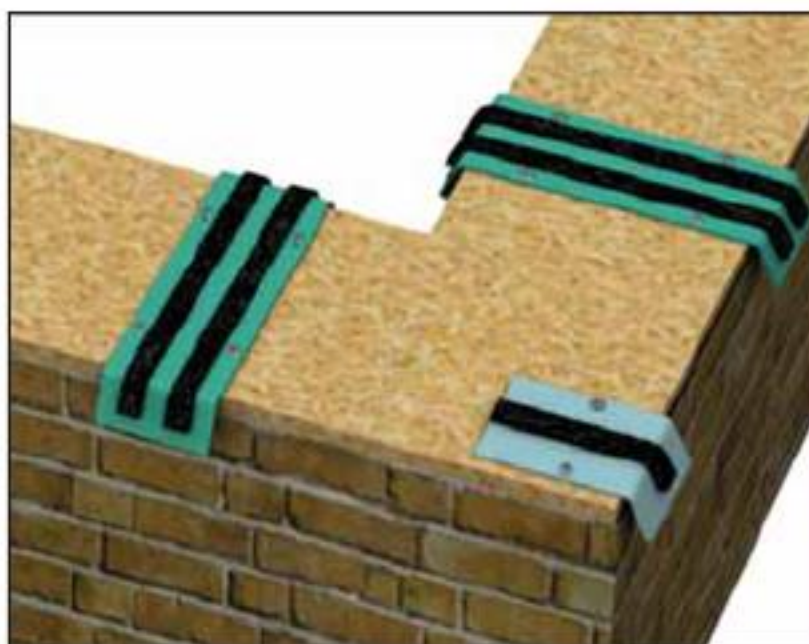
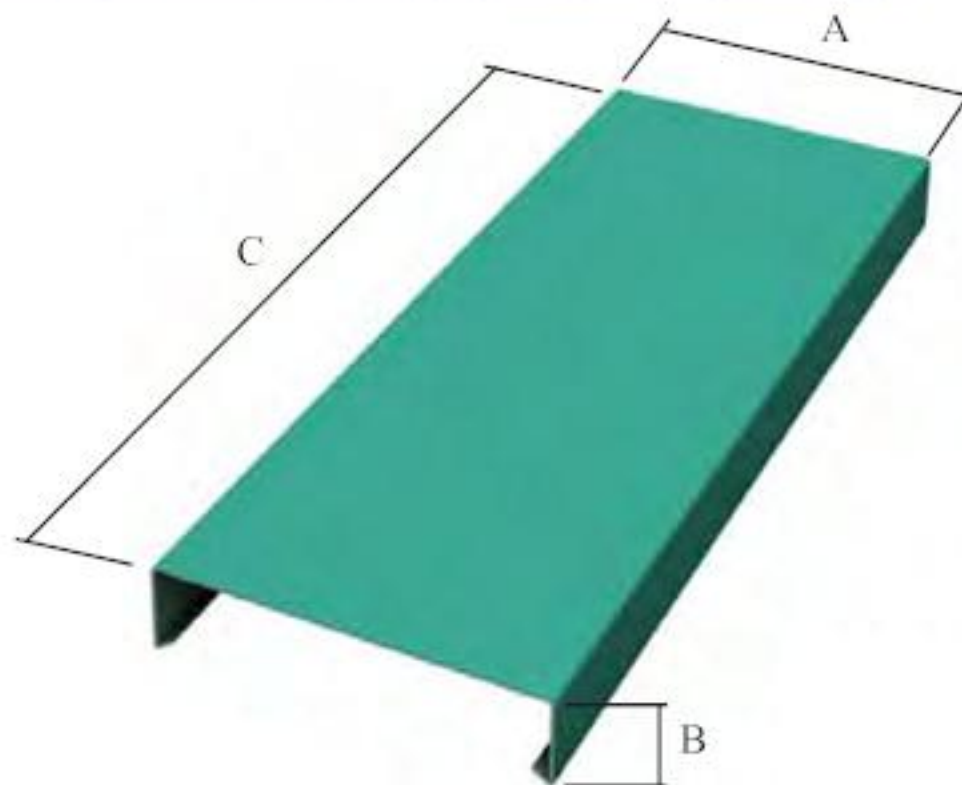


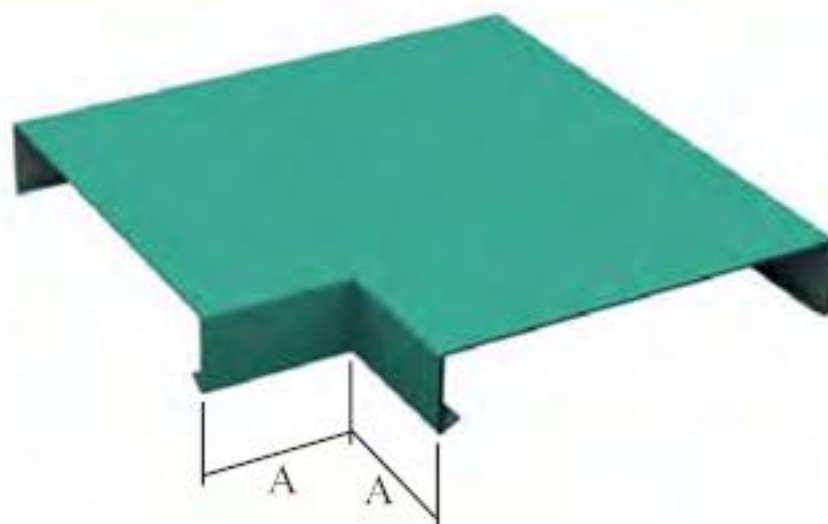
Fig. 6

W a l l C o p i n g

“Trueline” Wall Coping



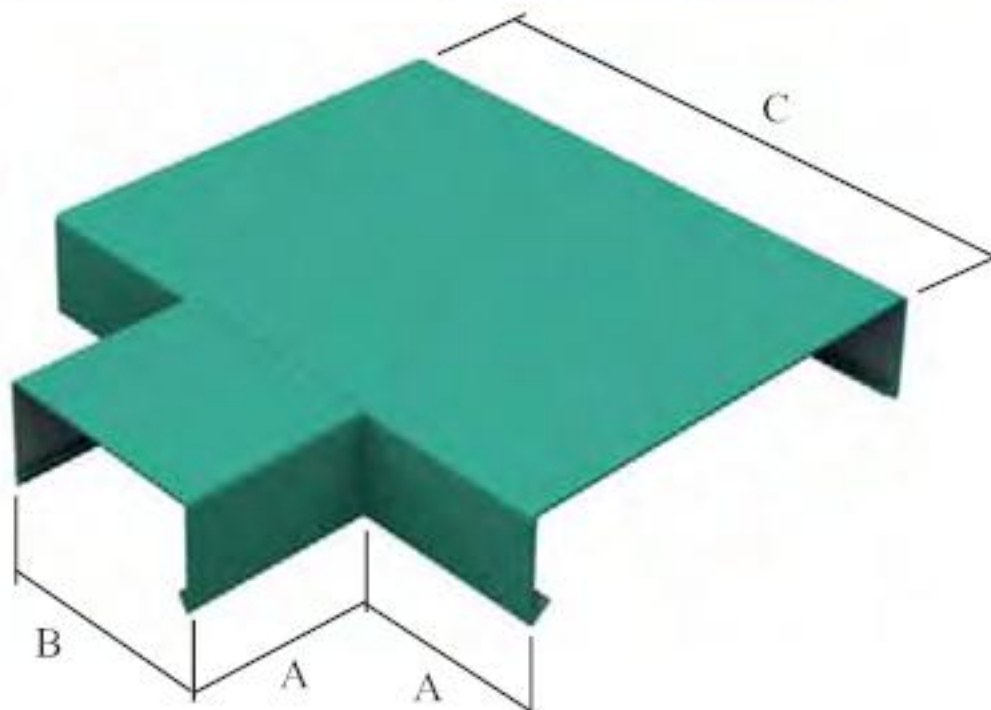
| | To suit wall width | A (mm) | B (mm) | C (mm) | Code |
|-------------|-----------------------|-----------|-----------|-----------|-----------|
| 540mm girth | 300 | 360 | 75 | 3000 | WC1-540/3 |
| 690mm girth | 450 | 510 | 75 | 3000 | WC1-690/3 |
| 840mm girth | 600 | 660 | 75 | 3000 | WC1-840/3 |



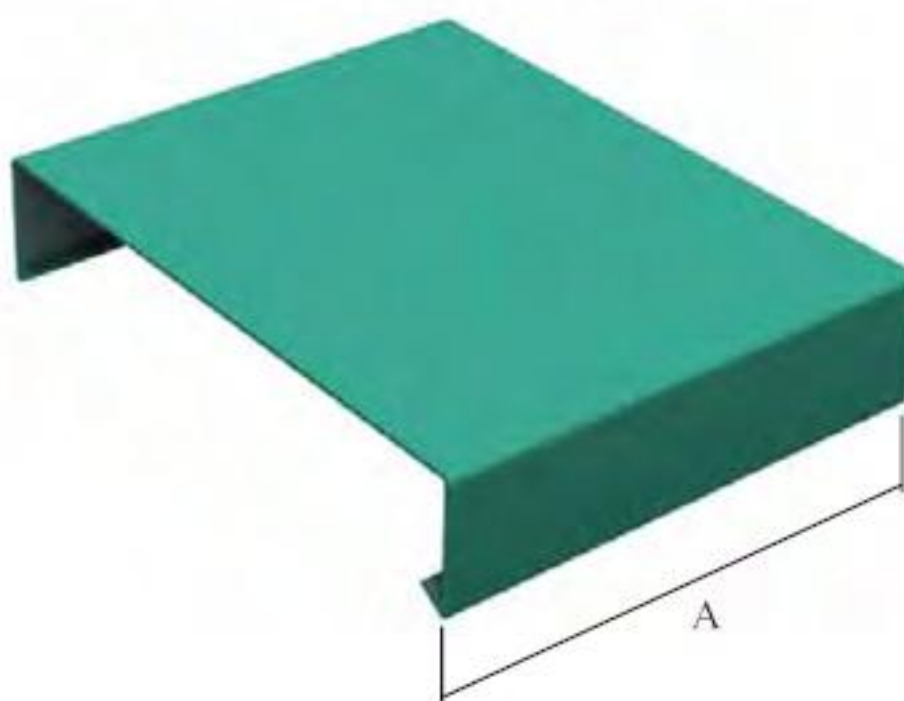
| | A (mm) | Code |
|-------------|-----------|------------|
| 540mm girth | 150 | WCF1-540/A |
| 690mm girth | 150 | WCF1-690/A |
| 840mm girth | 150 | WCF1-840/A |

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“Trueline” Wall Coping



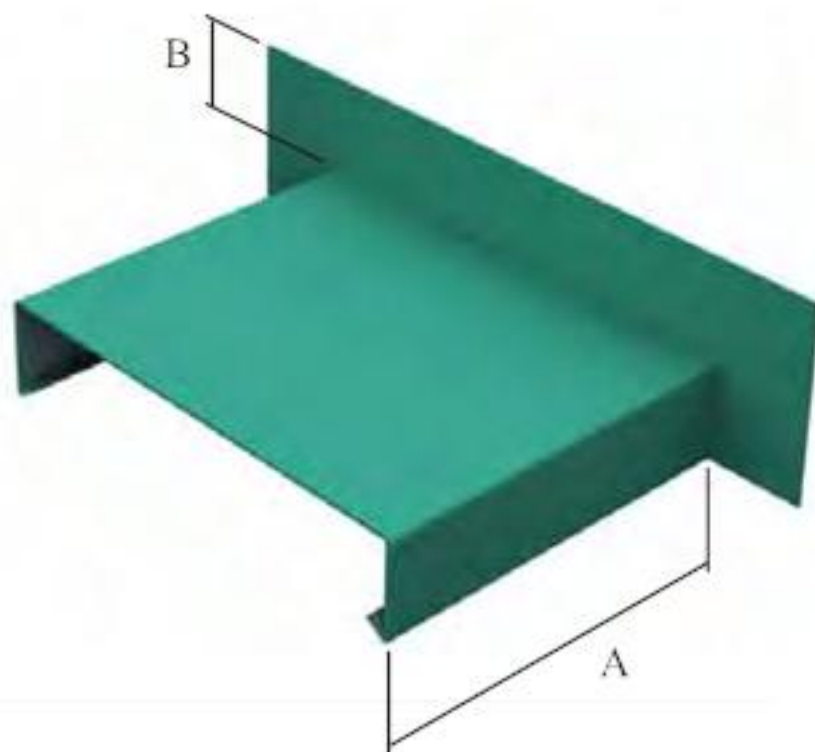
| | A (mm) | B (mm) | C (mm) | Code |
|-------------|-----------|-----------|-----------|-----------|
| 540mm girth | 150 | TBA | B+300 | WC1-540/T |
| 690mm girth | 150 | TBA | B+300 | WC1-690/T |
| 840mm girth | 150 | TBA | B+300 | WC1-840/T |



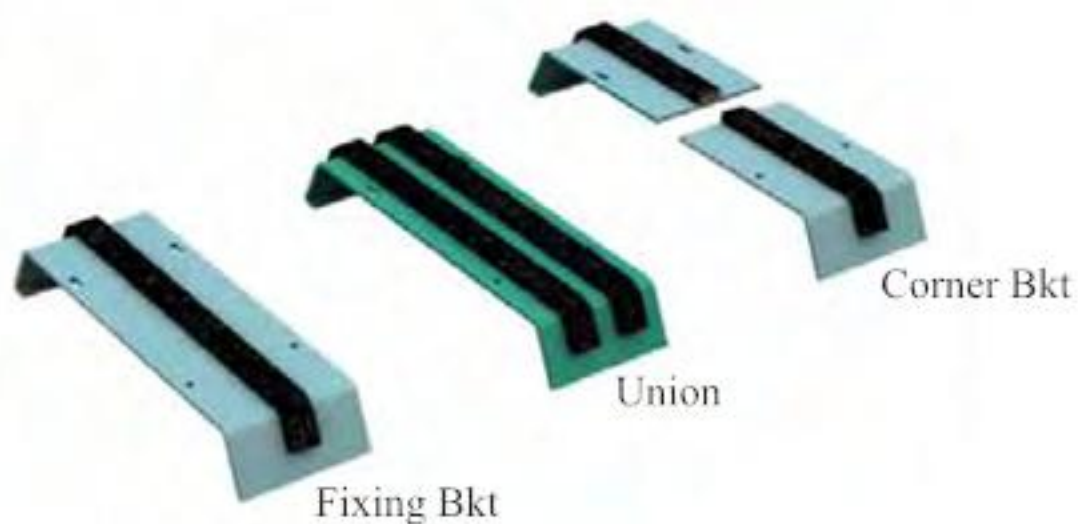
| | A (mm) | Code |
|-------------|-----------|------------|
| 540mm girth | 300 | WC1-540/SE |
| 690mm girth | 300 | WC1-690/SE |
| 840mm girth | 300 | WC1-840/SE |

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“Trueline” Wall Coping



| | A | B | Code |
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| | (mm) | (mm) | |
| 540mm girth | 300 | 75 | WC1-540/SEU |
| 690mm girth | 300 | 75 | WC1-690/SEU |
| 840mm girth | 300 | 75 | WC1-840/SEU |

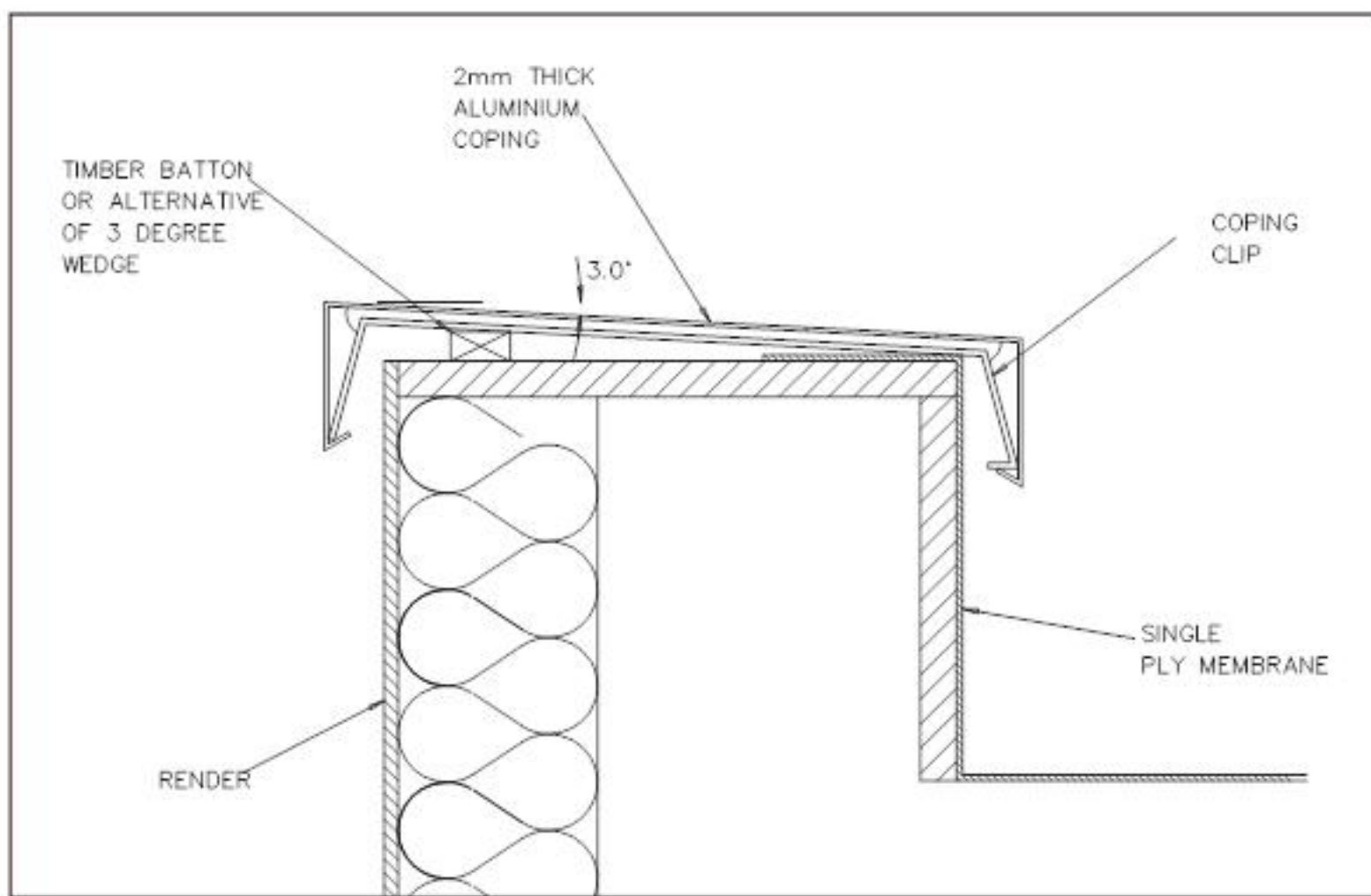


| | Code | Code | Code |
|-------------|------------|------------|------------|
| | Fixing Bkt | Union | Corner Bkt |
| 540mm girth | WC1-540/FB | WC1-540/UC | WC1-540/CB |
| 690mm girth | WC1-690/FB | WC1-690/UC | WC1-690/CB |
| 840mm girth | WC1-840/FB | WC1-840/UC | WC1-840/CB |

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“Trueline” Wall Coping

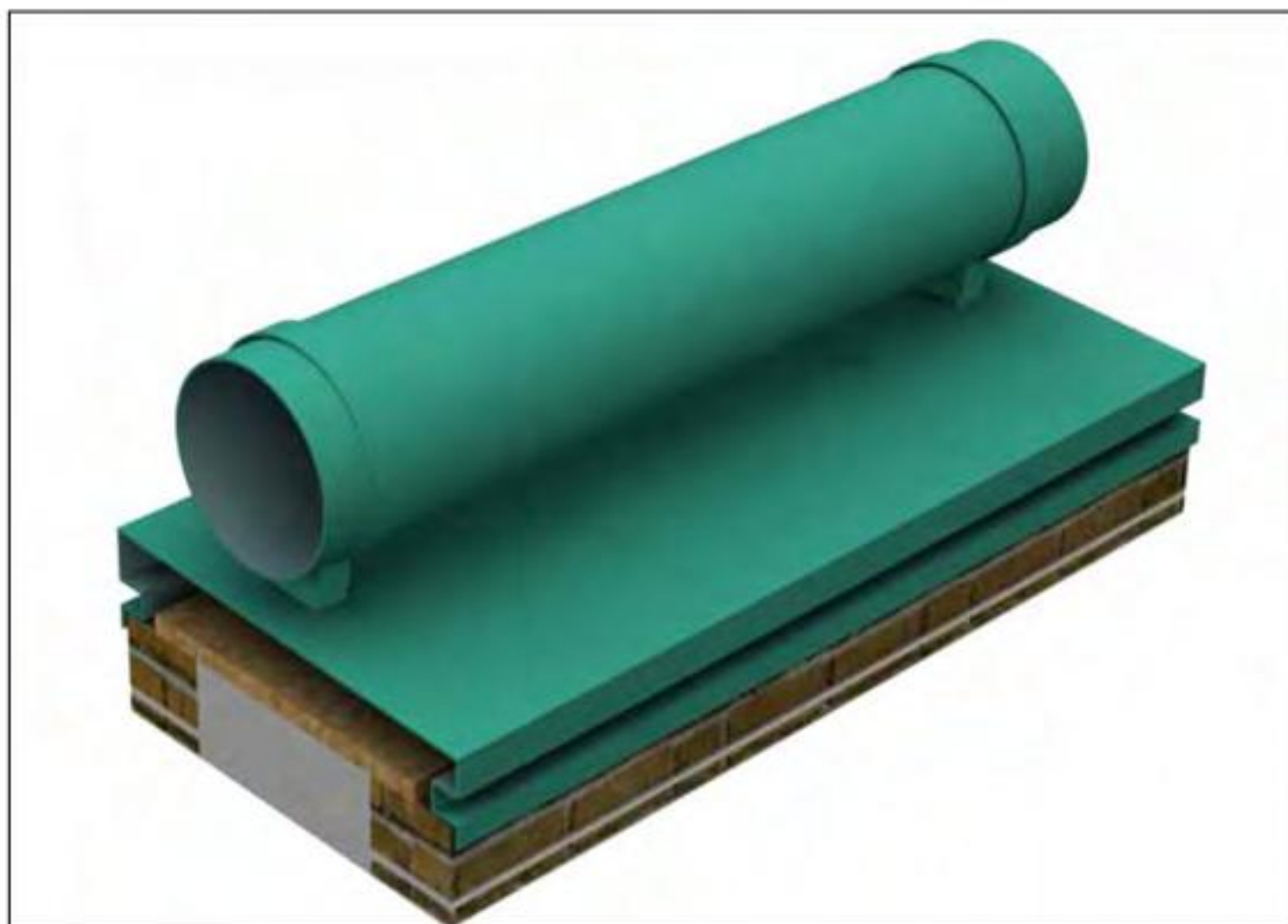
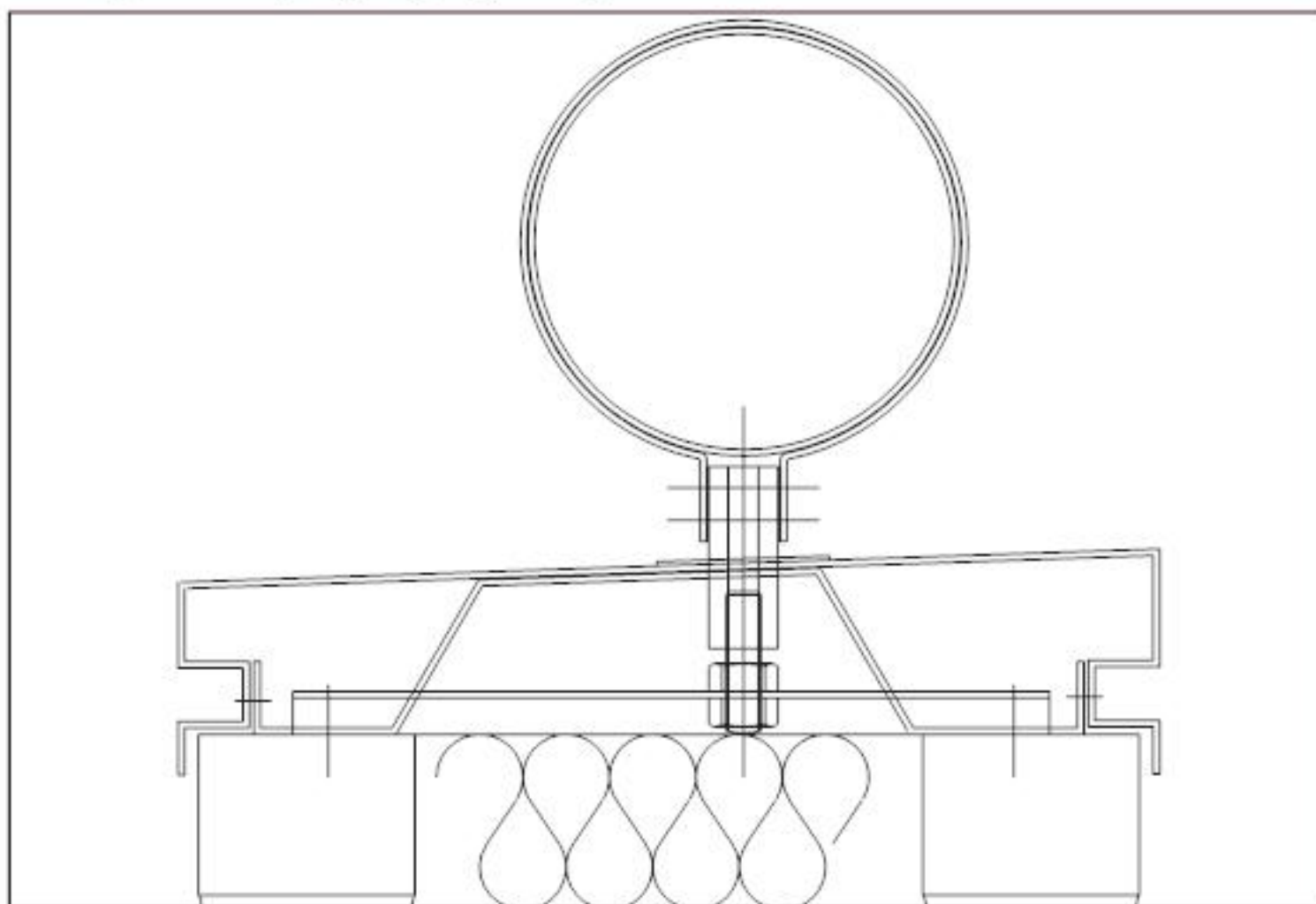
Example of Sloping Coping



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“Trueline” Wall Coping

Example of sloping coping complete with circular feature band



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“Trueline” Column Casing



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“Trueline” Column Casing

Description:

The column casing range is available in diameters from 300mm upwards and up to 3 metre lengths. The column casings are an aesthetically pleasing option to disguise structural supports or to enhance features of a building. Other girths and profiles available, please enquire. Touch up paint is supplied to touch up all site cut edges.

Jointing:

Where longer lengths than 3m are required internal unions will be supplied. These unions are made to follow the internal profile of the casing with a 1mm gap all round. Apply at least a 6mm bead of silicone sealant 20mm from the end of the union on the side being covered. Place this union under the last part fitted. Apply another 6mm bead of silicone 20mm from the other end. Place the next part over this allowing a 4mm thermal expansion gap and continue to fit the remaining parts in the same way. Ensure any excess silicone is tooled off and finish by placing a bead of silicone in the expansion gap and tooling smooth to ensure a watertight seal.

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“Trueline” Column Casing

Composition & Manufacture:

“Trueline” pressed aluminium Column Casing profiles are formed in high strength aluminium sheet grade 1050AH14 to suit your requirements & the product complies to or exceeds all relevant standards.

Finish:

The ARP standard colour range has been chosen to complement both traditional and modern building styles and materials.

“Trueline” Column Casings are supplied in a choice of either RAL or BS colours. Gloss, satin & matt finishes available.



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Model Specification:

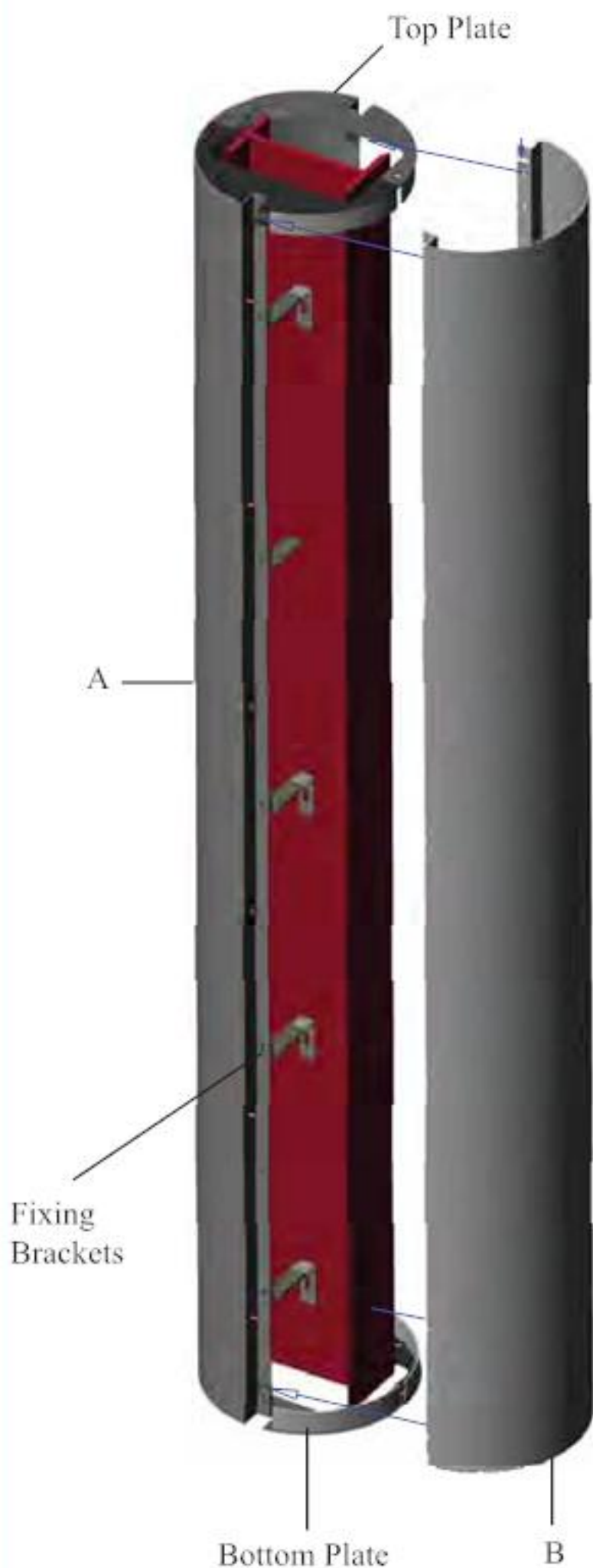
ARP ‘Trueline’ Column Casing to BS 2997 (EN612) using 1050AH14 grade aluminium sheet. Round – 2 part cover fixed to top and bottom plates with intermediate brackets and having secret fixings, sizes as specified according to installation.

Materials to have factory applied Polyester Powder Coat to all significant surfaces in accordance with BS EN 12206 Matt/Satin/Gloss* finish, or alternatively plain aluminium Mill Finish. All to be supplied by Aluminium Roofline Products Ltd, Unit 2, Vitruvius Way, Meridian Business Park, Braunstone, Leicester LE19 1WA.

Tel 0116 2894400, Fax 0116 2894433.

“Trueline” Column Casing

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Installation:

1. Position fixing bracket to steel column at positions required and fix outer part at correct distance.
2. Fix 2 part top and bottom plates to brackets ensuring tabs are in line with brackets fixed to steelwork.
3. Mark through base plate and fix with expansion bolts or similar.
4. Fix cover A (no cutouts) to fixing brackets with M6 bolts provided.
5. Fix cover B (with rectangular cutouts) onto other side to complete the column casing.

“Trueline” Column Casing



Channel Cover

6. Fit upper channel cover (unique end detail) and lower channel cover.

7. Finish by fitting both bottom trims and seal with silicone.

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“Trueline” Column Casing

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Type 1: Circular



| Column Size | A | B | Code |
|-------------|------|-------|-----------|
| 3m length | (mm) | (mm) | |
| 1130m girth | 300 | 3000m | CC830/3R |
| 1325m girth | 360 | 3000m | CC1000/3R |
| 1530m girth | 425 | 3000m | CC1200/3R |

Type 2: Pipe Guard



| Pipe Guard Size | A | Code |
|-----------------|------|---------|
| 3m length | (mm) | |
| | 200 | PG400/3 |
| | 265 | PG500/3 |
| | 330 | PG600/3 |

Accessories

Lightning Links:

The lightning link is manufactured from 8mm diameter aluminium and is PVC coated between fixing lugs. It is intended to provide electrical continuity throughout the product which can then be connected to the buildings main lightning protection scheme.

Vertical conductors should be used at appropriate positions around the building. Downpipes must not be used for this purpose. Lightning links are fixed by aluminium nuts, bolts and washers used to prevent electrolytic corrosion on the joint.



Sealant:

ARP Ltd supply Arbo sealants which are respected throughout the building and construction industries by architects and contractors. The sealants are subject to COSHH regulations, available in black, brown, white, grey and clear. The Safety Data Sheets prepared by the original manufacturer regarding these products can be supplied upon request.

Solvent Cleaner:

ARP Ltd supply Arbo Solvent Cleaner No.17 is a Xylene based cleaner suitable for the effective cleaning and degreasing of aluminium. Please consult Arbo Material Safety Data Sheet for full Health & Safety information on the product.

Touch Up Paint:

Most site work will entail some cutting of lengths, therefore a tin of touch up paint is essential for finishing cut edges.

Sundries

Sundries:

| Sealant | | Code |
|---------------------------------|--|----------|
| Arbosil 1096 | Low Modulus Sealant, 380ml, Black White, Brown & Clear | SA96 |
| Sealonce | Clear, 300ml | SO |
| Touch Up Paint | | |
| 0.125L | c/w brush in lid | TU.125 |
| 0.25L | c/w brush in lid | TU.25 |
| 0.5L | c/w loose brush | TU.5 |
| 1.0L | c/w loose brush | TUL |
| Gutter Nuts, Bolts & Washers | | |
| M6 x 20mm M/F | (Aluminium Nut, Bolt & Stainless Washer c/w EPDM seal) | NBW/M |
| M6 x 20mm PPC | | NBW/P |
| Timber Fixings | | |
| Posidrive Screws | (Countersunk Stainless Steel) | |
| 4 x 30mm | | M430 |
| 4 x 40mm | | M440 |
| 5 x 25mm | | M525 |
| 5 x 40mm | | M540 |
| 5 x 50mm | | M550 |
| Masonry Fixings | | |
| Hilti HPS1 | (Stainless steel) | |
| 6/5 x 30mm | | H65 |
| 6/15 x 40mm | | H615 |
| 6/25 x 50mm | | H625 |
| 8/20 x 50mm | | H820 |
| Cast Collar Fixing No.14 x 38mm | (pan head self tapping st stl) | MN1438 |
| Rivets | | |
| M/F | | RIVM |
| PPC | (specify PPC colour) | RIVP |
| Lightning Link | | |
| Link | | LL1 |
| Conductivity paste | | LL1F |
| Top Hat Outlets | | |
| M/F | (63mmØ, 76mmØ, 76 x 76mm) | _TH/M |
| PPC | | _TH/P |
| M/F | (101mmØ, 101 x 76mm, 101 x 101mm) | _TH/M |
| PPC | | _TH/P |
| with balloon grating | | _THB |
| Tapes | | |
| GZ tape | 22 x 3mm | TGZ223 |
| EPDM tape | 25 x 9mm | TEPDM25 |
| Miscellaneous | | |
| 30mm Plastic Bobbin | | BOBPL |
| 30mm Aluminium Bobbin | (specify PPC colour) | BOBT30/P |
| 1m Aluminium Bobbin Tube | (specify PPC colour) | BOBT |

Hints & Tips

Hints & Tips

With items such as Swan-Necks, Y-Branches and Bends combined with Welded Cast Eared Collars it is necessary to specify the orientation of the collar to avoid mistakes. The following examples and designations should be used wherever possible.



“Rear” Projection



“Front” Projection



“Left” Projection



“Right” Projection

*Collars on round components may be orientated at any angle, ie 33° from “Front”.
In such cases please supply a drawing or sketch.*

Downpipe Swaging

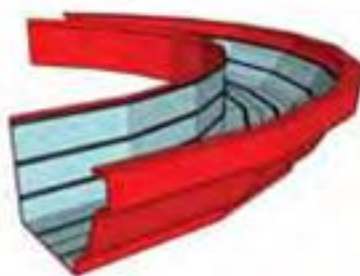
Consider having both ends of a downpipe swaged (useful when cutting lengths to suit on site and free of charge), or purchase a portable swaging unit if carrying out a lot of on-site cutting, see below.

Extra Connectors

Consider ordering some extra Union Connectors for gutter lengths or loose cast collars for downpipes, in case of unforeseen cutting requirements on site.

Radius Gutters

Radius Gutters generally require a template to be provided, they must be clearly marked with the fascia line and should be defined as either Concave or Convex. See sketch.



*Convex
(External)*



*Concave
(Internal)*

Touch Up Paint

Most site work will entail some cutting of lengths, therefore a tin of touch up paint is essential for finishing cut edges.

Handling & Storage

Handling & Storage:

Gutters/downpipes & fittings, particularly with polyester powder coat finish should be handled with care & should preferably be stored under cover on racks to prevent scratching.

All lengths are supplied in protective polythene wrapping, components suitably packed in boxes.

If painted products are to be stored outside, cover with tarpaulin to guard against water ingress into the protective polythene.

Mill finish items should be stored under cover to avoid uneven oxidization prior to being fitted.

Safety:

The relevant safety regulations are outlined in the Health & Safety at Work Act 1974 & should be followed.

Refer to CDM regulations (Code of Practice and Design for Health and Safety in Construction 1995)

Handling mill finish or painted aluminium products does not pose any known health hazard, however it is recommended to wear protective gloves whilst handling.

When cutting or welding these products it is advisable to wear eye protection. Avoid ingestion or inhalation of any dust or fumes arising from such operations & use a face mask when necessary.

Precaution needs to be taken to avoid contact with live power lines or cables.

These products generally do not aid combustion & are rated as below.

Mill Finish, non combustible to BS 476 part 4.

Powder coated, 0.1 Fire propagation index BS476 part 6, Class 1 Flame Surface Spread BS 476 part 7.

Maintenance:

Post Installation

Gutters & downpipes should be thoroughly checked & water tested for leaks, sealant smudges & any damage that may impair the performance or appearance of the system with the necessary remedial action being taken before the system is handed over.

Inspection

The gutter should be regularly inspected in terms of fixings, joints, surface damage & build up of leaves or silt. The proximity of trees or climbing vegetation in the immediate vicinity should be noted. Lightning links, if installed should be checked for conductivity.

Cleaning:

Remove any debris in the gutter to ensure the gutter performs to its original design capacity.

Brushing down a mill finish gutter will be adequate, as an aluminium oxide layer forms over time. This acts as a natural barrier against further corrosion & thus protects the metal.

Polyester powder coated gutters & downpipes should be washed down regularly using non abrasive materials & a warm detergent solution, in marine or other aggressive environments this should be carried out at three monthly intervals. Any breaks in the surface finish should be rubbed down, primed & touched up with a suitable liquid paint.

Guarantees (if required) issued by polyester powder manufacturers or applicators are reliant upon their terms & conditions being met which include maintenance, copies available upon request. Touch up paint is supplied to touch up all site cut edges.

Health & Safety

Material Safety Data Sheet - Aluminium Extrusions & Sheet Products

Product

Extruded Aluminium sections and/or Aluminium sheet formed to requirements.

Composition

The products consist of aluminium which may (or not) be subsequently coated with polyester powder paints or alternative finishes.

Health Statement

When subject to the normal purposes for which they are designed, these products do not present health risks or hazards.

By their nature these products may have sharp edges and corners and the use of gloves when handling is recommended. When installing overhead it is advisable to wear head protection.

When cutting or welding these products it is advisable to wear eye protection. Avoid ingestion or inhalation of any dust or fumes arising from such operations and use a suitable face mask when necessary.

Metal is a good conductor of electricity and precautions should be taken to ensure contact with live power lines/cables is avoided.

Precautions for Handling & Storage

No special precautions are necessary for normal handling and storage.

Procedures in the event of an emergency

There are no special risks associated and the products do not constitute a fire hazard. The products are not generally ignitable.

Waste Disposal

Waste products are not hazardous and their disposal should be in accordance with local authority regulations.

Health & Safety

ADSHEAD RATCLIFFE

Technical Datasheet Arbosil 1096

Arbosil 1096 is a One-part Low Modulus Neutral Cure Silicone Sealant, which cures on exposure to moisture vapour to form an elastic silicone rubber.

Main Application

Recommended for use in many forms of construction including glass wall assemblies, perimeter seals on curtain walling, perimeter sealing of polyester powder coated frames and glazing of windows in swimming pool buildings. *It is not recommended for overpainting and use against natural stone.*

Specification Compliances

BS EN ISO 11600 F/G 25LM
BS 5889 Type A: 1989
BS 6920 Part 1: 1990 (*Translucent only*)
German DIN 18545 Class 2 Type E (*Translucent only*)
German DIN 18540 Class 2 (*All colours except Translucent*)
US Federal TT-S-00 1543A Class A

Application Instructions

Joint preparation

The joint surfaces must be clean, dry and free from all contamination. The surfaces should be degreased using the appropriate Arbo Cleaner. Primers may be required on some substrates. It is recommended that Adshead Ratcliffe Technical Services Department should be consulted and advice obtained with regard to the choice of primer for specific purposes.

Joint Backing

Where applicable, appropriate joint filler e.g. closed cell polyethylene foam, should be used to provide the correct joint depth.

Application

Arbosil 1096 is supplied in cartridges and can be applied into the joint using an Arbo Caulking Gun.

All joint preparation, priming, and sealant application should be carried out in accordance with BS 8000 Part 16, the British Standard for the sealing of joints in buildings using sealants.

Joint Size suitability

Joint width

Minimum 6mm
Maximum 25mm (*single application*); 50mm (*Multiple application*)

Joint Depth

Minimum 10mm on porous substrates
Minimum 6mm on non-porous substrates
Maximum 15mm

Width:Depth ratio (within above min/max restrictions)

2:1 butt joints
1:1 lap joints

Storage Life

12 months in original unopened package stored in a cool, dry place out of direct sunlight.

Health & Safety

Under the Chemical (Hazards Information and Packaging for Supply) Regulations 1994, Arbosil 1096 is labelled 'irritant'. If sealant comes into contact the eyes, flush with copious volumes of cold water and obtain medical attention. For further information consult Product Safety Data Sheet P41A/B.

Health & Safety

ADS HEAD RATCLIFFE

Technical Datasheet Arbosil 1096

Technical Data

| Properties | Values |
|---------------------------------|--|
| Typical Shore A hardness..... | 30 |
| Application temperature..... | +5°C to + 50°C |
| Service temperature..... | -50°C to +150°C |
| Skinning time @ 20°C/65%RH..... | 5 minutes |
| Cure rate @ 20°C/65%RH | 2mm/24 hours |
| Chemical resistance..... | Resistant to most dilute acids and alkalis; organic solvents may cause the sealant to swell and lose adhesion, but do not directly dissolve the sealant. |
| UV resistance..... | Very Good |
| Service life..... | 25 years + |
| Movement accommodation..... | Butt joints (<i>movement in tension and compression</i>): 50% (<i>Not to exceed ± 30% in any one direction</i>) Lap joints (<i>movement in shear</i>): 100% (<i>Not to exceed ± 70% in any one direction</i>) |
| Colours..... | White, Black, Grey, Mahogany, Translucent, Anthracite. |

Accessories:

Primers

| | |
|------------------|--|
| Arbo Primer 2650 | 500ml tin (yield approximately 125 metres per tin) |
| Arbo Primer 2402 | 500ml tin (yield approximately 200 metres per tin) |
| Arbo Primer 2172 | 500ml tin (yield approximately 200 metres per tin) |

Cleaners

| | |
|--|-------------|
| Arbo Cleaner No.13 | 1 Litre tin |
| <i>(Toluene based – not suitable for use with plastics or delicate finishes)</i> | |
| Arbo Cleaner No.16 | 1 Litre tin |
| <i>(Alcohol based)</i> | |

Equipment

Polyethylene nozzles
Arbo Caulking Guns

Quantity Estimator

| <i>Joint size</i> | <i>Metres per litre</i> |
|-------------------|-------------------------|
| 6 x 6 | 27.75 |
| 9 x 6 | 18.50 |
| 12 x 9 | 9.25 |
| 18 x 10 | 5.55 |
| 25 x 10 | 4.0 |

Packaging: 25 x 380ml plastic cartridges. Polyethylene nozzles are included in each box.

Health & Safety

ARBOSIL 1096

BIOACCUMULATION

This product is not expected to significantly bioaccumulate.

DEGRADABILITY

Not degradable.

ACUTE FISH TOXICITY

Toxicity to fish is improbable.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15 REGULATORY INFORMATION

LABELLING



Irritant.

CONTAINS

METHYL-0,0',0"-BUTAN-2-ONE-TRIOXIMOSILANE

RISK PHRASES

R43 May cause sensitisation by skin contact.

SAFETY PHRASES

S24 Avoid contact with skin.

S37 Wear suitable gloves.

S60 This material and its container must be disposed of as hazardous waste.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

16 OTHER INFORMATION

REVISION COMMENTS

General review

REVISION DATE 120/9/05

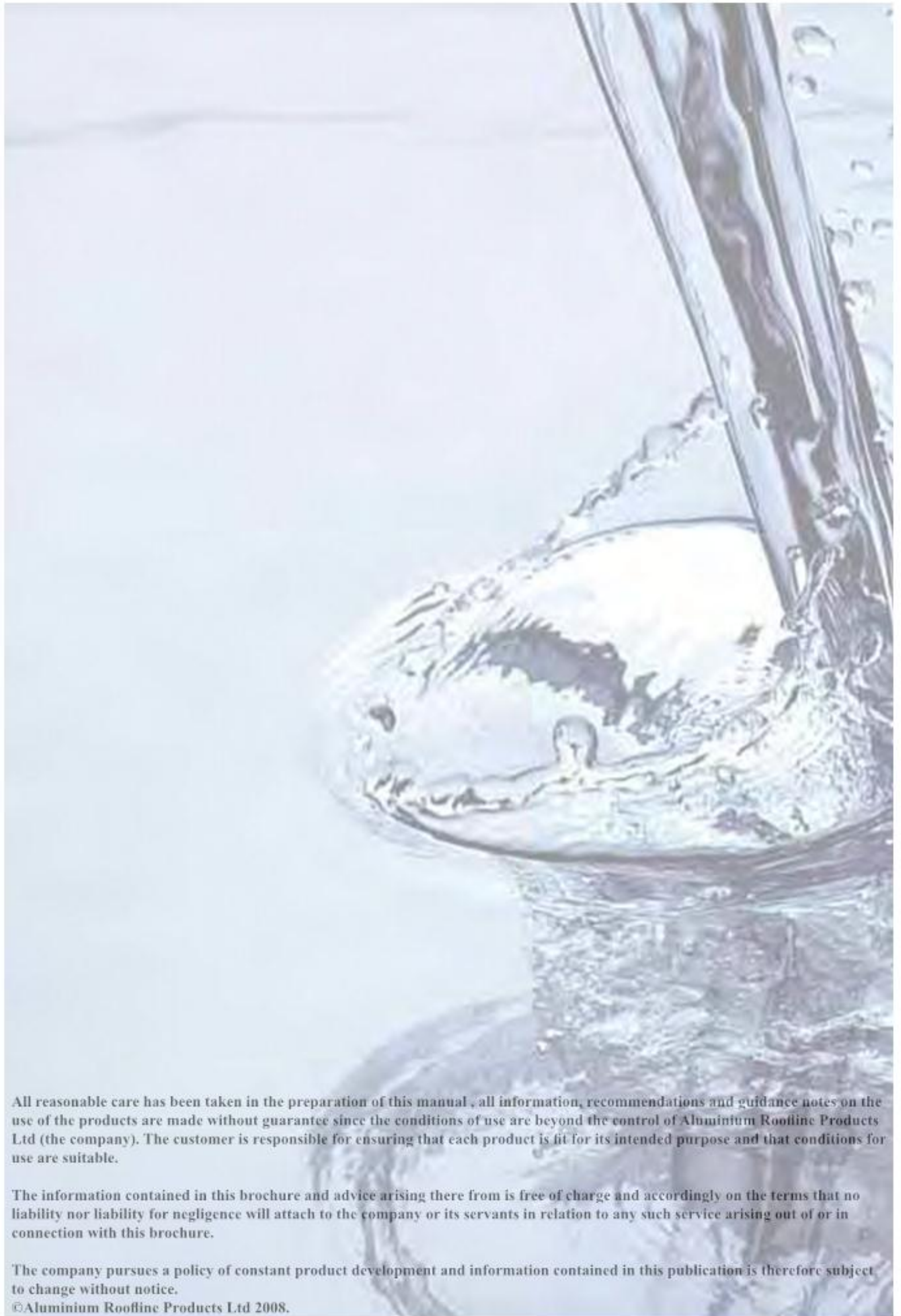
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RISK PHRASES IN FULL

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.



All reasonable care has been taken in the preparation of this manual, all information, recommendations and guidance notes on the use of the products are made without guarantee since the conditions of use are beyond the control of Aluminium Roofline Products Ltd (the company). The customer is responsible for ensuring that each product is fit for its intended purpose and that conditions for use are suitable.

The information contained in this brochure and advice arising there from is free of charge and accordingly on the terms that no liability nor liability for negligence will attach to the company or its servants in relation to any such service arising out of or in connection with this brochure.

The company pursues a policy of constant product development and information contained in this publication is therefore subject to change without notice.

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ARP LTD

ALUMINIUM ROOFLINE PRODUCTS

Product Range



'Trueline' Fascia & Soffit Systems

'Trueline' Wall Coping



'Legion' Box Gutter

'Colonnade' Downpipe Range



'Sentinel' Extruded Gutters

'Legacy' Cast Gutter



'Exitus' Roof Outlets

'Mustang' Continuous Pre-painted Gutter System



'Canalis' Roll Formed Gutters & Pipe

'Britannia' Cast Iron Gutters & Pipe



'Vitruvius' Cast Iron Soil & Waste