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BBA APPROVAL INSPECTION TESTING CERTIFICATION
TECHNICAL APPROVALS FOR CONSTRUCTION

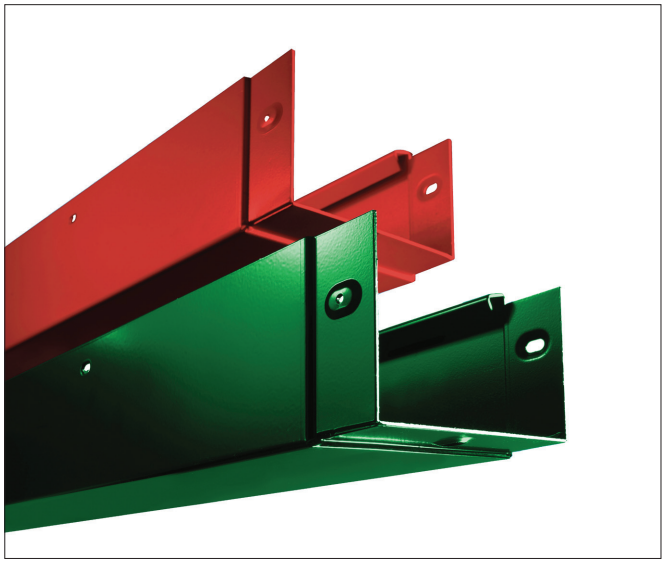
Agrément Certificate
86/1671
Product Sheet 3

ALUMASC RAINWATER SYSTEMS

ALUMASC GX JOGGLE, SMOOTH, MOULDED GUTTER SYSTEMS

PRODUCT SCOPE AND SUMMARY OF CERTIFICATE

This Certificate relates to Alumasc GX Joggle, Smooth, Moulded Gutter Systems, for use as eaves guttering for conveying rainwater from roofs.



AGRÉMENT CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.

KEY FACTORS ASSESSED

Performance of joints — joints between gutter sections and fittings are watertight under conditions of thermal movement in excess of those expected to occur in practice (see section 5).

Resistance to loading — gutters have adequate resistance to snow loading (see section 6).

Durability — the systems will have a life expectancy of 40 years in rural and suburban conditions and 25 years in industrial and coastal conditions (see section 9).

The BBA has awarded this Agrément Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 14 March 2011
Originally certificated on 28 November 1988

Brian Chamberlain
Head of Approvals — Engineering

Greg Cooper
Chief Executive

The BBA is a UKAS accredited certification body — Number 113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk

Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.

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Regulations

In the opinion of the BBA, Alumasc GX Joggle, Smooth, Moulded Gutter Systems, if used in accordance with the provisions of this Certificate, will meet or contribute to meeting the relevant requirements of the following Building Regulations:

The Building Regulations 2010 (England and Wales)

Requirement:	H3	Rainwater drainage
Comment:		See sections 3, 5, 6 and 7 of this Certificate.
Requirement:	Regulation 7	Materials and workmanship
Comment:		The systems are acceptable. See section 9 and the *Installation* part of this Certificate.

The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Fitness and durability of materials and workmanship
Comment:		The systems can contribute to a construction satisfying this Regulation. See sections 8.1, 8.2 and 9 and the *Installation* part of this Certificate.
Regulation:	9	Building standards — construction
Standard:	3.6	Surface water drainage
Comment:		The products meet the relevant requirements of this Standard. See sections 3, 5, 6 and 7 of this Certificate.

The Building Regulations (Northern Ireland) 2000 (as amended)

Regulation:	B2	Fitness of materials and workmanship
Comment:		The systems are acceptable. See section 9 and the *Installation* part of this Certificate.
Regulation:	B3(2)	Suitability of certain materials
Comment:		The systems are acceptable. See sections 8.1 and 8.2 of this Certificate.
Regulation:	N5	Rain-water drainage
Comment:		See sections 3, 5, 6 and 7 of this Certificate.

Construction (Design and Management) Regulations 2007
Construction (Design and Management) Regulations (Northern Ireland) 2007

In the opinion of the BBA, there is no information in this Certificate which relates to the obligations of the client, CDM co-ordinator, designer and contractors under these Regulations.

Non-regulatory Information

NHBC Standards 2011

NHBC accepts the use of Alumasc GX Joggle, Smooth, Moulded Gutter Systems, when installed and used in accordance with this Certificate, in relation to *NHBC Standards*, Part 7 *Roofs* (Chapters 7.1 – D9 and 7.2 – D15).

General

This Certificate relates to Alumasc GX Joggle, Smooth, Moulded Gutter Systems for use as eaves guttering for conveying rainwater from roofs.

The systems can be installed easily and joints will be watertight. They have adequate resistance to impacts and other loads likely to occur during installation and service.

Systems designed and installed in accordance with BS EN 12056-3 : 2000 will have a satisfactory flow capacity.

The items described in this Certificate are marketed by Alumasc Exterior Building Products Ltd.

In the opinion of the British Board of Agrément, the products are suitable for their purpose.

Technical Specification

1 Description

1.1 Alumasc GX Regular, Smooth, Moulded Gutter Systems are available in a range of sizes and comprise the items listed in Tables 1 and 2.

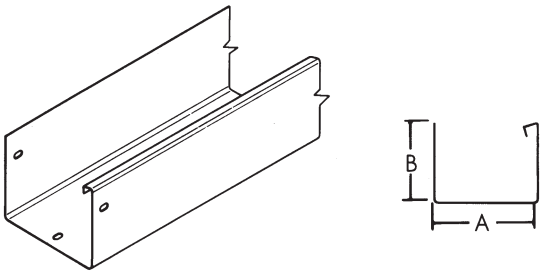
Table 1 Pressed aluminium box gutters and fittings

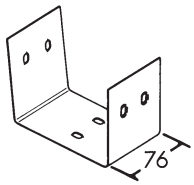
Standard gutter lengths

Reference	Length (mm)	A (mm)	B (mm)
GX Joggle			
GXJ1/3MA	3000	102	76
GXJ2/3MA	3000	127	102
GXJ3/3MA	3000	152	102
GXJ4/3MA	3000	152	152
GXJ5/3MA	3000	204	152
GX Smooth			
GXS1/3MA	3000	122	76
GXS2/3MA	3000	141	99
GXS3/3MA	3000	171	125
GXS4/3MA	3000	177	152
GXS5/3MA	3000	225	150
GX Moulded			
GXM1/3MA	3000	113	76
GXM2/3MA	3000	139	102
GXM3/3MA	3000	162	102
GXM4/3MA	3000	175	152
GXM5/3MA	3000	207	152

Union clips

Reference	A (mm)	B (mm)
GX Joggle		
None required		
None required		
None required		
None required		
None required		
GX Smooth		
GXS1/UCA	122	76
GXS2/UCA	141	99
GXS3/UCA	171	125
GXS4/UCA	177	152
GXS5/UCA	225	150
GX Moulded		
GXM1/UCA	113	76
GXM2/UCA	139	102
GXM3/UCA	162	102
GXM4/UCA	175	152
GXM5/UCA	207	152



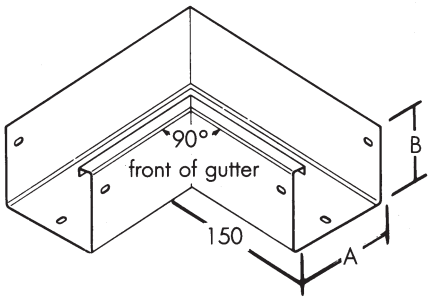


90° angles

Reference		A	B
External	Internal	(mm)	(mm)
GX Joggle			
GXJ1/EA90A	GXR1/IA90A	102	76
GXJ2/EA90A	GXR2/IA90A	127	102
GXJ3/EA90A	GXR3/IA90A	152	102
GXJ4/EA90A	GXR4/IA90A	152	152
GXJ5/EA90A	GXR5/IA90A	204	152
GX Smooth			
GXS1/EA90A	GXS1/IA90A	102	76
GXS2/EA90A	GXS2/IA90A	141	99
GXS3/EA90A	GXS3/IA90A	171	125
GXS4/EA90A	GXS4/IA90A	177	152
GXS5/EA90A	GXS5/IA90A	225	150
GX Moulded			
GXM1/EA90A	GXM1/IA90A	113	76
GXM2/EA90A	GXM2/IA90A	139	102
GXM3/EA90A	GXM3/IA90A	162	102
GXM4/EA90A	GXM4/IA90A	175	152
GXM5/EA90A	GXM5/IA90A	207	152

135° angle

Reference		A	B
External	Internal	(mm)	(mm)
GX Joggle			
GXJ1/EA135A	GXR1/IA135A	102	76
GXJ2/EA135A	GXR2/IA135A	127	102
GXJ3/EA135A	GXR3/IA135A	152	102
GXJ4/EA135A	GXR4/IA135A	152	152
GXJ5/EA135A	GXR5/IA135A	204	152
GX Smooth			
GXS1/EA135A	GXS1/IA135A	122	76
GXS2/EA135A	GXS2/IA135A	141	99
GXS3/EA135A	GXS3/IA135A	171	125
GXS4/EA135A	GXS4/IA135A	177	152
GXS5/EA135A	GXS5/IA135A	225	150
GX Moulded			
GXM1/EA135A	GXM1/IA135A	113	76
GXM2/EA135A	GXM2/IA135A	139	102
GXM3/EA135A	GXM3/IA135A	162	102
GXM4/EA135A	GXM4/IA135A	175	152
GXM5/EA135A	GXM5/IA135A	207	152



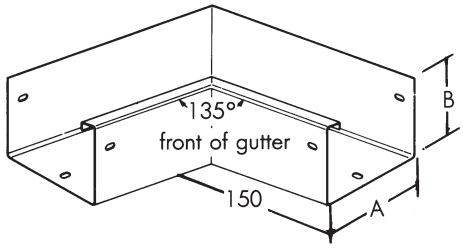
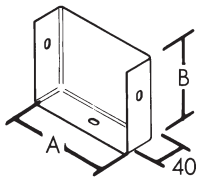


Table 1 Pressed aluminium box gutters and fittings (continued)

Stop ends

Reference		A (mm)	B (mm)
GX Joggle			
GXJ1/SEA		98	72
GXJ2/SEA		123	98
GXJ3/SEA		148	98
GXJ4/SEA		148	148
GXJ5/SEA		200	148
GX Smooth			
GXS1/SELA	GXS1/SERA	122	76
GXS2/SELA	GXS2/SERA	141	99
GXS3/SELA	GXS3/SERA	171	125
GXS4/SELA	GXS4/SERA	177	152
GXS5/SELA	GXS5/SERA	225	150
GX Moulded			
GXM1/SELA	GXM1/SERA	113	76
GXM2/SELA	GXM2/SERA	139	102
GXM3/SELA	GXM3/SERA	162	102
GXM4/SELA	GXM4/SERA	175	152
GXM5/SELA	GXM5/SERA	207	152

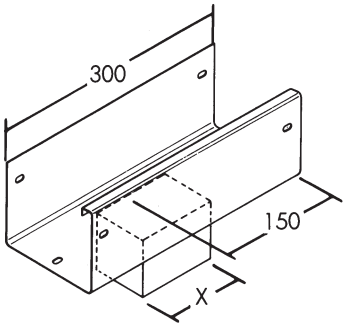


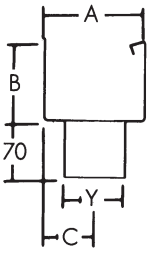
Note: all dimensions in millimetres

Table 2 Outlets, downpipes and brackets

Outlets and square/rectangular downpipes

Reference	A (mm)	B (mm)	C (mm)	X (mm)	Y (mm)
GXJ1/SO33A	113	76	51	72	72
GXJ2/SO33A	139	102	64	72	72
GXJ3/SO33A	162	102	76	72	72
GXJ4/SO33A	175	152	76	72	72
GXJ5/SO33A	207	152	102	72	72
GXJ1/SO43A	113	76	51	102	76
GXJ2/SO43A	139	102	64	102	76
GXJ3/SO43A	162	102	76	102	76
GXJ4/SO43A	175	152	76	102	76
GXJ5/SO43A	207	152	102	102	76
GXJ1/SO44A	113	76	51	102	102
GXJ2/SO44A	139	102	64	102	102
GXJ3/SO44A	162	102	76	102	102
GXJ4/SO44A	175	152	76	102	102
GXJ5/SO44A	207	152	102	102	102





Fascia brackets (wrought aluminium strip 100 mm wide x 3 mm thick)

Reference	A (mm)
GX Smooth	
GXS1/BRKA	122
GXS2/BRKA	141
GXS3/BRKA	171
GXS4/BRKA	177
GXS5/BRKA	225

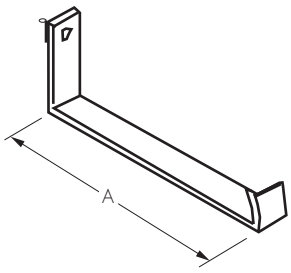
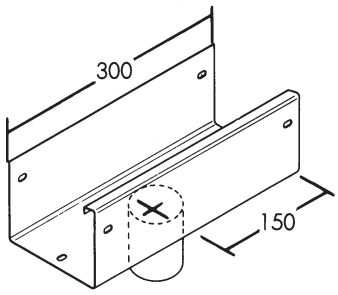
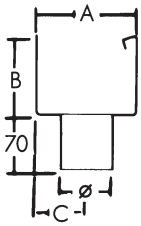


Table 2 Outlets, downpipes and brackets (continued)

Outlets and circular downpipes

Reference	Diameter (mm)	A (mm)	B (mm)	C (mm)
GX Joggle				
GXJ1/RO25A	63	102	76	51
GXJ2/RO25A	63	127	102	64
GXJ3/RO25A	63	152	102	76
GXJ4/RO25A	63	152	152	76
GXJ5/RO25A	63	204	152	102
GXJ1/RO30A	75	102	76	51
GXJ2/RO30A	75	127	102	64
GXJ3/RO30A	75	152	102	76
GXJ4/RO30A	75	152	152	76
GXJ5/RO30A	75	204	152	102
GXJ1/RO40A	100	102	76	51
GXJ2/RO40A	100	127	102	64
GXJ3/RO40A	100	152	102	76
GXJ4/RO40A	100	152	152	76
GXJ5/RO40A	100	204	152	102
GX Smooth				
GXS1/RO25A	63	122	76	51
GXS2/RO25A	63	141	99	64
GXS3/RO25A	63	171	125	76
GXS4/RO25A	63	177	152	76
GXS5/RO25A	63	225	150	102
GXS1/RO30A	75	122	76	51
GXS2/RO30A	75	141	99	64
GXS3/RO30A	75	171	125	76
GXS4/RO30A	75	177	152	76
GXS5/RO30A	75	225	150	102
GXS1/RO40A	100	122	76	51
GXS2/RO40A	100	141	99	64
GXS3/RO40A	100	171	125	76
GXS4/RO40A	100	177	152	76
GXS5/RO40A	100	225	150	102
GX Moulded				
GXM1/RO25A	63	113	76	51
GXM2/RO25A	63	139	102	64
GXM3/RO25A	63	162	102	76
GXM4/RO25A	63	175	152	76
GXM5/RO25A	63	207	152	102
GXM1/RO30A	75	113	76	51
GXM2/RO30A	75	139	102	64
GXM3/RO30A	75	162	102	76
GXM4/RO30A	75	175	152	76
GXM5/RO30A	75	207	152	102
GXM1/RO40A	100	113	76	51
GXM2/RO40A	100	139	102	64
GXM3/RO40A	100	162	102	76
GXM4/RO40A	100	175	152	76
GXM5/RO40A	100	207	152	102

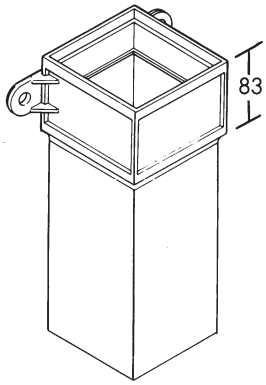




add 7 mm for bracket fix

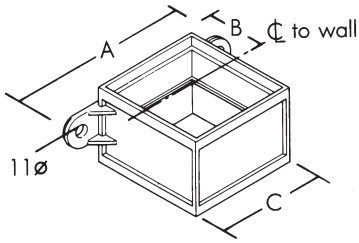
Standard pipe lengths (including sockets)

Effective length (mm)	72 x 72 (mm)	102 x 76 (mm)	102 x 102 (mm)
3000	RW33/3M	RW43/3M	RW44/3M
2000	RW33/2M	RW43/2M	RW44/2M
1000	RW33/1M	RW43/1M	RW44/1M



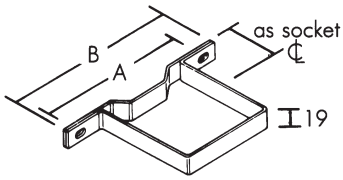
Pipe sockets

Reference	A (mm)	B (mm)	C (mm)
RW33/PS	162	52	912
RW43/PS	191	54	121
RW44/PS	191	67	121



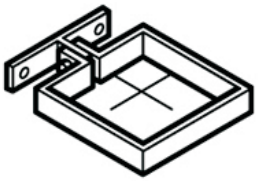
Pipe clips *(wrought aluminium sections 30 mm x 3 mm with 4 mm extruded base)*

Reference	A (mm)	B (mm)	C (mm)
RW33/PC	130	160	52
RW43/PC	160	190	54
RW44/PC	160	190	67



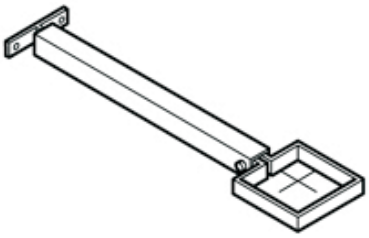
Pipe clips with small base bracket *(wrought aluminium sections 30 mm x 3 mm with 4 mm extruded base)*

Reference	A (mm)	B (mm)	C (mm)
RW33/SB/PC	78	47	78
RW43/SB/PC	80	47	80
RW44/SB/PC	93	47	94



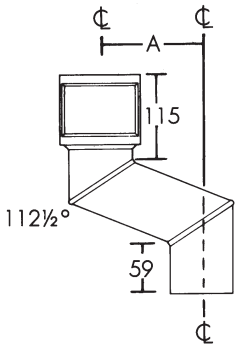
Pipe clips with extension base
(wrought aluminium sections 30 mm x 3 mm with 4 mm fabricated base)

Reference	A (mm)
RW33/EX/PC	87 min to 290 max
RW43/EX/PC	89 min to 292 max
RW44/EX/PC	102 min to 305 max



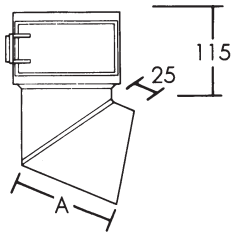
Offsets

Reference	A (mm)	B (mm)	C (mm)
Pipe 72 mm x 72 mm			
RW33/PO/3 one-part	82	220	76
RW33/AO/12 two-part	82	310	305
RW33/AO/21 two-part	82	390	533
RW33/AO/30 two-part	82	470	762
Pipe 102 mm x 76 mm			
RW43/PO/3 one-part	82	220	76
RW43/AO/12 two-part	82	310	305
RW43/AO/21 two-part	82	390	533
RW43/AO/30 two-part	82	470	762
Pipe 102 mm x 102 mm			
RW44/PO/3 one-part	82	220	76
RW44/AO/12 two-part	82	310	305
RW44/AO/21 two-part	82	390	533
RW44/AO/30 two-part	82	470	762



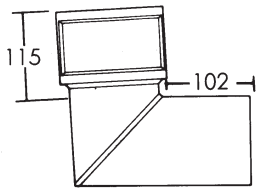
Shoes

Reference	Pipe size (mm)	A (mm)	B (mm)
RW33/SH	72 x 72	82	106
RW43/SH	102 x 76	83	106
RW44/SH	102 x 102	82	148



Bends

Reference	Pipe size (mm)	A (mm)	B (mm)	C (mm)	Hand
RW33/B/92R	72 x 72	82	67	137	right
RW33/B/112R	72 x 72	82	57	127	right
RW33/B/135R	72 x 72	82	47	117	right
RW43/B/92R	102 x 76	82	80	150	right
RW43/B/112R	102 x 76	82	66	136	right
RW43/B/135R	102 x 76	82	58	128	right
RW44/B/92R	102 x 102	82	81	151	right
RW44/B/112R	102 x 102	82	66	136	right
RW44/B/135R	102 x 102	82	53	123	right
RW33/B/92L	72 x 72	82	67	137	left
RW33/B/112L	72 x 72	82	57	127	left
RW33/B/135L	72 x 72	82	47	117	left
RW43/B/92L	102 x 76	82	80	150	left
RW43/B/112L	102 x 76	82	66	136	left
RW43/B/135L	102 x 76	82	58	128	left
RW44/B/92L	102 x 102	82	81	151	left
RW44/B/112L	102 x 102	82	66	136	left
RW44/B/135L	102 x 102	82	53	123	left

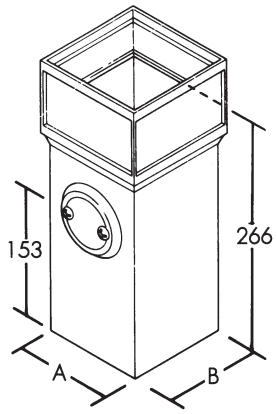


92½° angle illustrated

Table 2 Outlets, downpipes and brackets (continued)

Access pipes

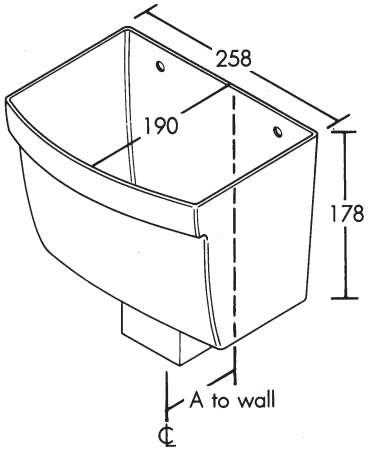
Reference	Pipe size (mm)	A (mm)	B (mm)	C (mm)
RW33/ACP	72 x 72	82	266	153
RW43/ACP	102 x 76	82	266	153
RW44/ACP	102 x 102	82	266	153



all dimensions in millimetres

Rectangular rain-water heads

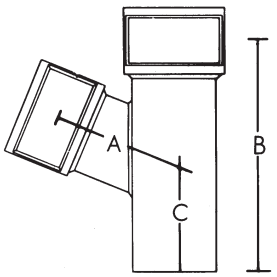
Reference	Pipe size (mm)	W (mm)	P (mm)	H (mm)
RW33/RH	72 x 72	258	190	178
RW43/RH	102 x 76	258	190	178
RW44/RH	102 x 102	258	190	178



all dimensions in millimetres

Branches

Reference	Pipe size (mm)	A (mm)	B (mm)	C (mm)
RW33/BR/92	72 x 72	82	230	85
RW43/BR/112	72 x 72	82	248	118
RW44/BR/135	72 x 72	82	310	190



1.2 Outlets, downpipes and fittings are available in the sections and sizes given in Table 3.

Table 3 Available sizes

Square and rectangular section (mm)	Circular — nominal diameter (mm)
72 x 72	63
102 x 76	75
102 x 102	100
	150

1.3 All components are of aluminium (see Table 4) and are available mill finished or polyester coated. The gutter lengths and the fittings are produced by shearing, bending and welding sheet aluminium. Some fittings, eg angles and outlets, have continuous seam welds.

Table 4 Specifications of aluminium components

Component	Type of aluminium	Standard
Gutter lengths, fittings and washers	1200	BS EN 485, BS EN 515, BS EN 573, BS EN 612, BS EN 1462
Downpipes	6063 T6	BS EN 573, BS EN 755, BS EN 12020
Downpipe fittings	LM2, LM6	BS 8530
Screws	5251	BS EN 1301

1.4 Downpipes are extruded and are bought in to the required specification. Downpipe fittings are cast and extruded screws, nuts, washers and other accessories are bought in to the required specification and supplied as required.

1.5 The gutter sections are butt jointed and overlapped by a 76 mm wide internal or external union clip. A gap 4 mm wide is left between each section. Slots may be provided for fixing with screws, nuts and washers. Each joint is sealed using a suitable silicone sealant[1].

(1) External union clips are available on request.

1.6 Brackets and top straps are formed from wrought or pressed aluminium.

1.7 Continuous quality control is exercised during manufacture, including visual and dimensional checks, chemical analysis on the molten material for casting of downpipe fittings and accessories, and on off-cuts of bought-in sheet material and downpipe.

2 Delivery to site

2.1 Mill finished gutters, downpipes and fittings are delivered to site unprotected and coated components are wrapped in polythene. Reasonable care should be taken to avoid damage during storage, handling and installation.

2.2 In accordance with normal good practice, the components should be stored under cover and away from the risk of impact and the effects of the weather.

2.3 Each component bears the manufacturer's name. The packaging bears the BBA identification mark incorporating the number of this Certificate.

Design Considerations

3 General

Alumasc GX Joggle, Smooth, Moulded Gutter Systems are suitable for use as eaves guttering for conveying rainwater from roofs.

4 Practicability of installation

The systems are designed to be installed by a competent general builder, or a contractor, experienced with this type of system.

5 Performance of joints

Correctly-made joints between adjacent gutter sections and between gutter sections and fittings are watertight under conditions of thermal movement in excess of those expected to occur in practice.

6 Resistance to loading

The systems have resistance to impacts and snow, water and other loads in excess of those likely to occur during and after installation.

7 Flow characteristics

The flow capacities, when calculated in accordance with BS EN 12056-3 : 2000, are given in Table 5.

Table 5 Freeflow capacities[1]

Box gutter	Flow capacity ($l \cdot s^{-1}$)
100 x 75 mm (4" x 3")	2.18
125 x 100 mm (5" x 4")	4.28
150 x 100 mm (6" x 4")	5.16

(1) The flow capacity of downpipes can be found from BS EN 12056-3 : 2000, Table 8.

8 Maintenance

8.1 The system can be supplied uncoated or painted as required.

8.2 The gutters can be cleared easily of debris.

9 Durability

In the opinion of the BBA, the gutter system will have a minimum maintenance-free life of 40 years in rural and suburban conditions and 25 years in industrial and coastal conditions. However, when in contact with some materials corrosion may occur (see sections 10.2 and 10.3).

Installation

10 General

10.1 Installation must be carried out in accordance with the manufacturer's instructions and BS EN 12056-3 : 2000 where applicable.

10.2 The product will be corroded by contact with copper or water run-off from copper in any environment. It should not be installed on a building with a copper roof and other contacts with copper and its alloys should be avoided.

10.3 The contact areas should be coated with bitumen paint if the product is to be:

- embedded in concrete or mortar, or
- in contact with lead or stainless steel in a marine environment.

11 Procedure

11.1 The rafter and fascia bracket supports for the gutters should be fitted using No 12 by 38 mm zinc plated, cadmium plated or sherardized screws as detailed in Table 6.

Table 6 Details of screws

System	Screw head type	Centres (maximum) (mm)
GX Joggle	roundhead	1000
GX Smooth	roundhead	1000
GX Moulded	roundhead	600

11.2 To make the joint watertight, sufficient suitable silicone sealant (eg Dow Corning 791) should be applied between the spigot or union clip, onto clean and dry surfaces, so that some of the sealant is squeezed out of the joint as the pieces are brought together. The excess sealant should be removed and the surrounding area cleaned. Nuts and bolts should be bedded in sealant (the head covered but the nut visible).

11.3 The aluminium screws, nuts and washers are fitted using the overlapping slots in the gutter lengths and the union clips; overtightening should be avoided.

11.4 If the gutter has to be trimmed to length, it can be cut with normal metalworking tools. Slots must then be formed to match the socket to which the gutter is to be fixed.

11.5 Circular downpipes are supplied with loose drive-fit sockets; square and rectangular cross-section downpipes have welded sockets. If a watertight joint is required, sealant should be applied to the lower part of the socket, and the pipe pushed home. The pipe socket should then be packed with suitable caulking, eg polyethylene foam, and a small bead of sealant introduced at the top of the joint.

11.6 Two-part square and rectangular section offsets are available which can be cut to the required length on site. Minimum projections are:

- 105 mm (72 mm by 72 mm and 107 mm by 76 mm offsets)
- 125 mm (102 mm by 102 mm offsets).

Technical Investigations

12 Tests

12.1 Tests were carried out to determine:

- resistance of brackets to 200 kg load
- resistance of gutter to loading.

12.2 An examination was made of data in relation to:

- dimensional accuracy
- watertightness of joints
- flow capacity
- resistance to impact
- ease of cleaning
- thermal movement.

13 Investigations

13.1 The manufacturing process was examined, including the methods adopted for quality control, and details were obtained of the quality and composition of the materials used.

13.2 Site visits were carried out to assess the practicability of installation and the performance in use.

Bibliography

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BS EN 12020-2 : 2001 *Aluminium and aluminium alloys — Extruded precision profiles in alloys EN AW-6060 and EN AW-6063 — Tolerances on dimensions and form*

BS EN 12056-3 : 2000 *Gravity Drainage Systems inside Buildings — Roof drainage, layout and calculation*

14 Conditions

14.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is granted only to the company, firm or person named on the front page — no other company, firm or person may hold or claim any entitlement to this Certificate
- is valid only within the UK
- has to be read, considered and used as a whole document — it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- is subject to English law.

14.2 Publications and documents referred to in this Certificate are those that the BBA deems to be relevant at the date of issue or re-issue of this Certificate and include any: Act of Parliament; Statutory Instrument; Directive; Regulation; British, European or International Standard; Code of Practice; manufacturers' instructions; or any other publication or document similar or related to the aforementioned.

14.3 This Certificate will remain valid for an unlimited period provided that the product/system and the manufacture and/or fabrication including all related and relevant processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

14.4 In granting this Certificate, the BBA is not responsible for:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product/system or any other product/system
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product/system
- individual installations of the product/system, including the nature, design, methods and workmanship of or related to the installation
- the actual works in which the product/system is installed, used and maintained, including the nature, design, methods and workmanship of such works.

14.5 Any information relating to the manufacture, supply, installation, use and maintenance of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system is manufactured, supplied, installed, used and maintained. It does not purport in any way to restate the requirements of the Health & Safety at Work etc Act 1974, or of any other statutory, common law or other duty which may exist at the date of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care. In granting this Certificate, the BBA does not accept responsibility to any person or body for any loss or damage, including personal injury, arising as a direct or indirect result of the manufacture, supply, installation, use and maintenance of this product/system.

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