

**“Colonnade”**

**Square & Rectangular Cast Collared Downpipe**



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“Colonnade”

Square & Rectangular Cast Collared Downpipe

**Description:**

Square & Rectangular downpipe formed from extruded 6060 T4 aluminium in conjunction with a LM27 Cast Collar in various sizes (76mm, 101mm & 101x76mm) & supplied with a complete range of accessories ie offsets, bends, shoes, pipe clips.

**Installation & Jointing:**

Ensure vertical alignment between drain & gutter outlet.

Collars to be fixed with plastic wall plugs & No.14 x 38mm st.stl screws (dependant on substrate).

Joints to be made up of Ø6mm backing foam caulked into the joint & finished off with sealant to acceptable standard.

See Fig 1.

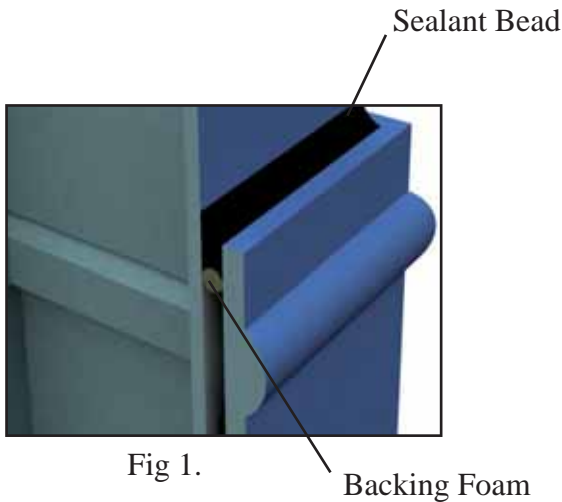
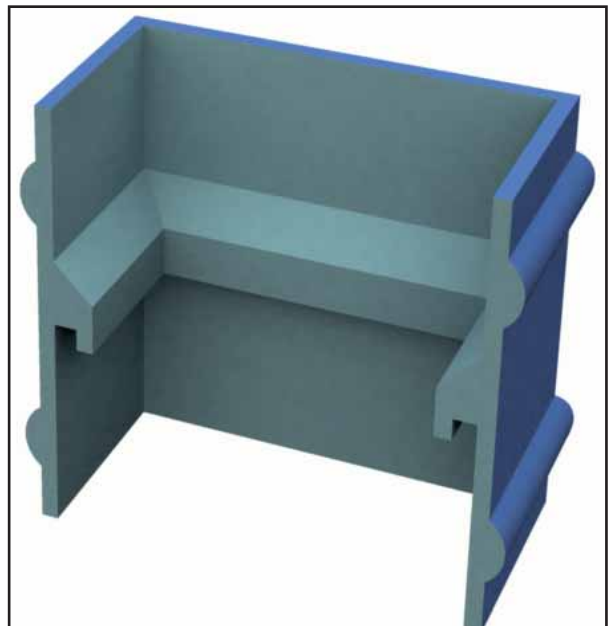


Fig 1.



Typical section through Collar



## “Colonnade”

### Square & Rectangular Cast Collared Downpipe

#### Composition & Manufacture:

‘Colonnade’ downpipes are manufactured from Aluminium alloy 6060 T4 to BS1474: 1972 & the product complies to, or exceeds all relevant standards. Cast Collars are manufactured from LM27 aluminium. Fittings for the downpipes 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 heavy grade ‘Colonnade’ Cast Eared Downpipes & fittings to BS 2997 (EN612) using 6060 T4 grade extruded aluminium in accordance with BS 1474: 1974.

Profile to be Square/Rectangular\*, size 76 x 76 (1.6mm), 101 x 76 (1.6mm), 101 x 76 (1.6mm).\*

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.

Joints to be sealed by application of backing foam & Arbosil 1096 Low Modulus Silicone Sealant & fastened by No.14 x 38mm (dependant on substrate) stainless steel screws, in accordance with the manufacturer’s specification & guidelines. Downpipes to be fixed at 2m centres maximum with supplementary brackets at or near fittings.

\* Delete as appropriate



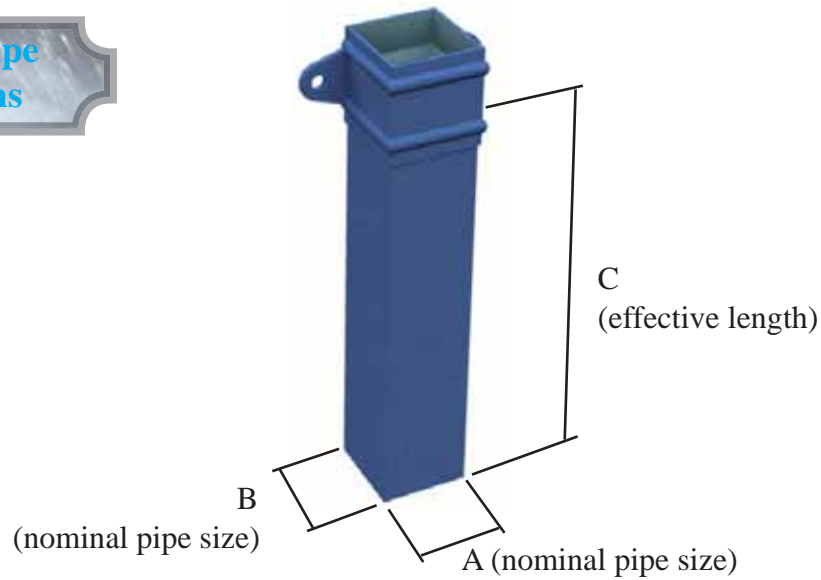
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# “Colonnade”

## Square & Rectangular Cast Collared Downpipe

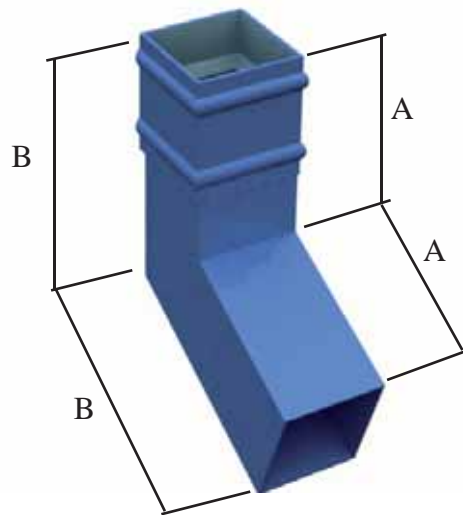
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### Downpipe Lengths



A (mm)	B (mm)	Code C=3.0m	Code C=2.5m	Code C=2.0m	Code C=1.0m	Code C=0.5m
76	76	3SDP3CE	3SDP2.5CE	3SDP2CE	3SDP1CE	3SDP0.5CE
101	76	43DP3CE	43DP2.5CE	43DP2CE	43DP1CE	43DP0.5CE
101	101	4SDP3CE	4SDP2.5CE	4SDP2CE	4SDP1CE	4SDP0.5CE

### Bends



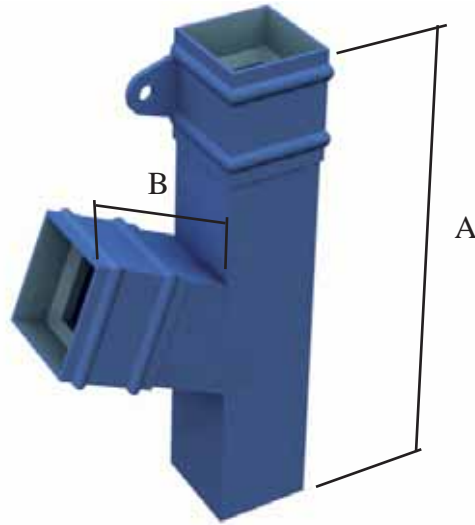
Forward facing bend shown. See p.37 for more details.

Pipe Size (mm)	Code	A (mm)	B (mm)	Code	A (mm)	B (mm)	Code	A (mm)	B (mm)
76x76	3SB92CC	120	190	3SB112CC	120	170	3SB135CC	120	150
101x76	43B92CC	120	190	43B112CC	120	170	43B135CC	120	150
101x101	4SB92CC	120	215	4SB112CC	120	190	4SB135CC	120	160

# “Colonnade”

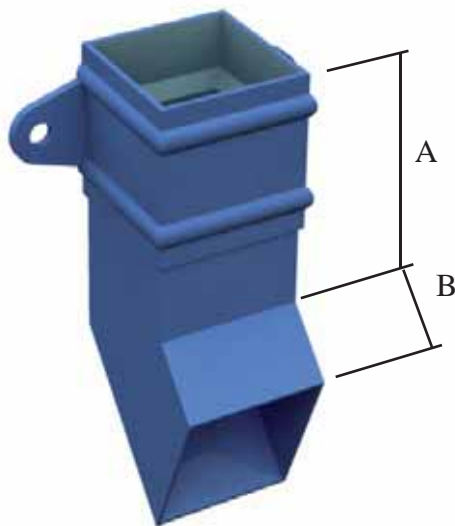
## Square & Rectangular Cast Collared Downpipe

### Y-Branch



Pipe Size (mm)	Code	A (mm)	B (mm)	Code	A (mm)	B (mm)	Code	A (mm)	B (mm)
	92.5°			112.5°			135°		
76x76	3SY92CC	300	160	3SY112CC	300	160	3SY135CC	300	160
101x76	43Y92CC	300	160	43Y112CC	340	160	43Y135CC	340	160
101x101	4SY92CC	340	160	4SY112CC	340	160	4SY135CC	340	160

### Shoe



Pipe Size (mm)	Code	A (mm)	B (mm)
76x76	3SSCE	120	40
101x76	43SCE	120	40
101x101	4SSCE	120	40

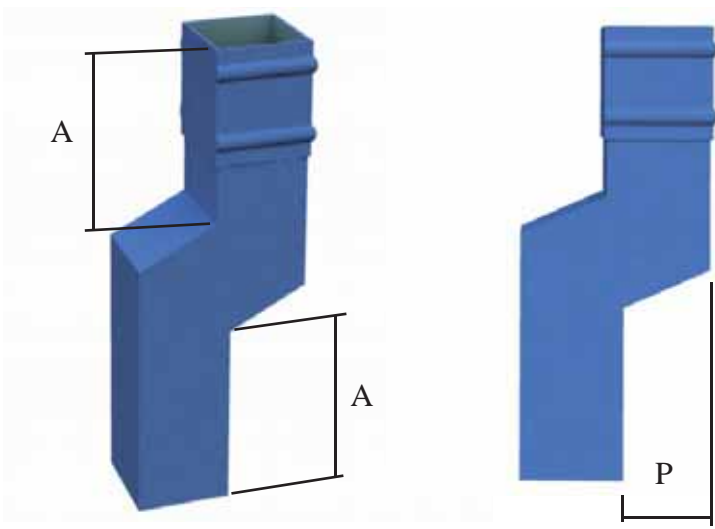
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“Colonnade”

Square & Rectangular Cast Collared Downpipe

One part Swan-necks

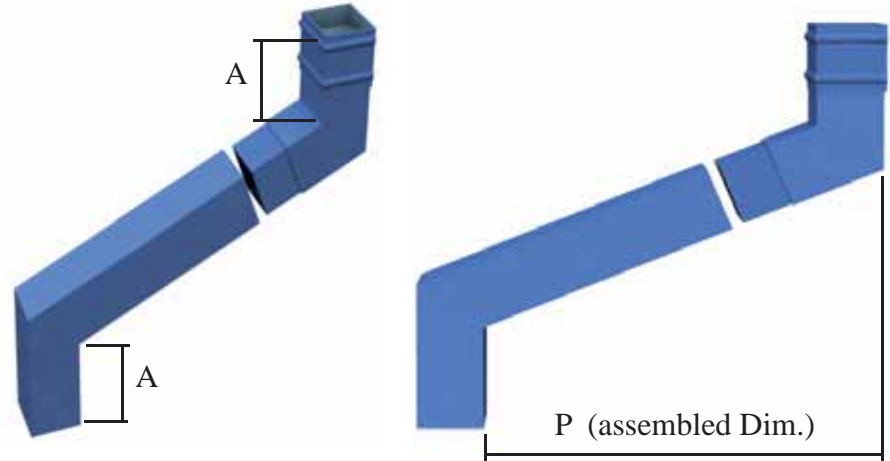
One part swan-necks are supplied 112.5° as standard. Plinth offsets are supplied 135° as standard. Please specify other requirements. Rear projection shown, please see p.37



Pipe Size	A	Code	Code	Code	Code	Code
(mm)	(mm)	P=40mm	P=63mm	P=75mm	P=100mm	P=150mm
76x76	120	3SSNC40/1	3SSNC63/1	3SSNC75/1	3SSNC100/1	3SSNC150/1
101x76	120	43SNC40/1	43SNC63/1	43SNC75/1	43SNC100/1	43SNC150/1
101x101	120	4SSNC40/1	4SSNC63/1	4SSNC75/1	4SSNC100/1	4SSNC150/1

Two part Swan-necks

Two part swan-necks are supplied 112.5° as standard. Please specify other requirements. Rear projection shown, please see p.37



Pipe Size	A	Code	Code	Code	Code	Code
(mm)	(mm)	P=150mm	P=300mm	P=450mm	P=600mm	P=750mm
76x76	120	3SSNC150/2	3SSNC300/2	3SSNC450/2	3SSNC600/2	3SSNC750/2
101x76	120	43SNC150/2	43SNC300/2	43SNC450/2	43SNC600/2	43SNC750/2
101x101	120	4SSNC150/2	4SSNC300/2	4SSNC450/2	4SSNC600/2	4SSNC750/2



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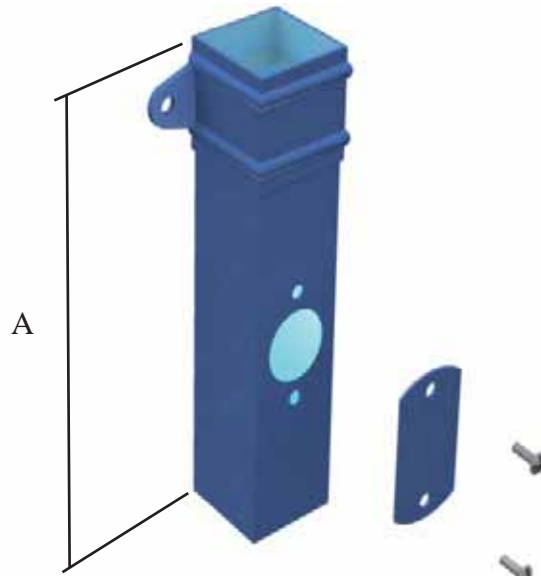
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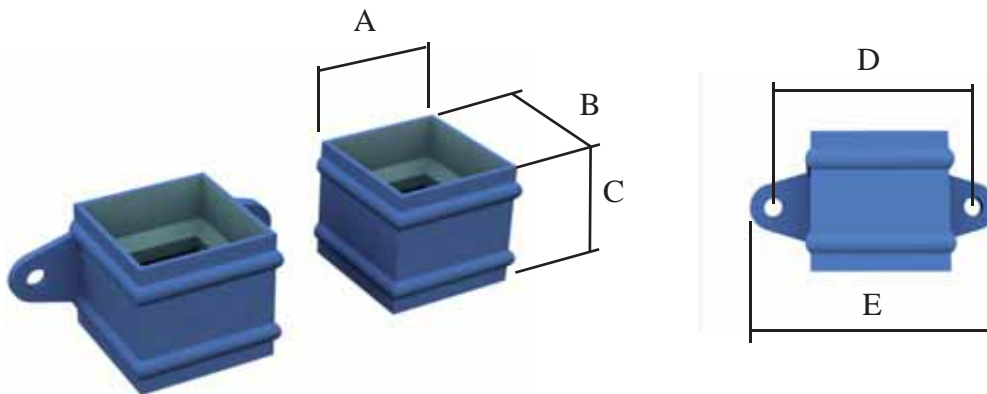
## Square & Rectangular Cast Collared Downpipe

### Access Pipe



Pipe Size (mm)	Code	A (mm)
76x76	3SAPPCE	300
101x76	43APPCE	300
101x101	4SAPPCE	300

### Loose Collars



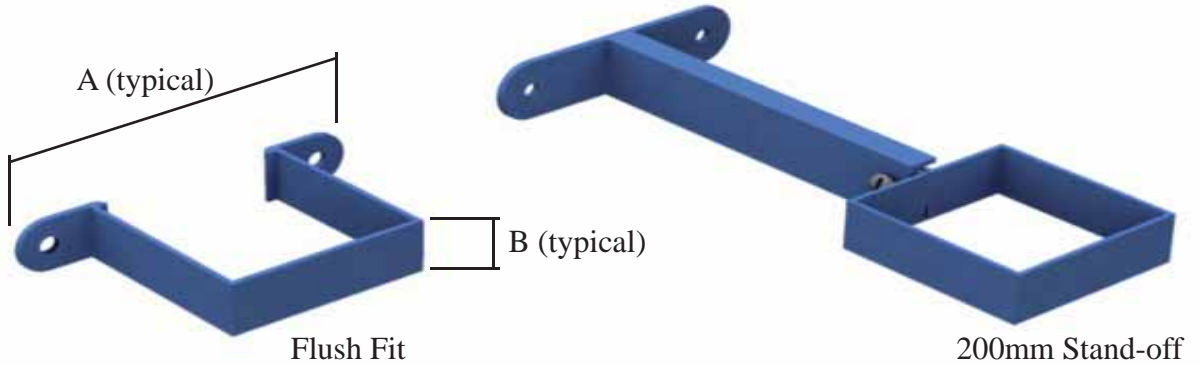
Pipe Size (mm)	Code	Code	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
76x76	3SCCE	3SCC	86	88	80	135	165
101x76	43CCE	43CC	112	88	80	160	190
101x101	4SCCE	4SCC	112	112	80	160	190

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Pipe Clips

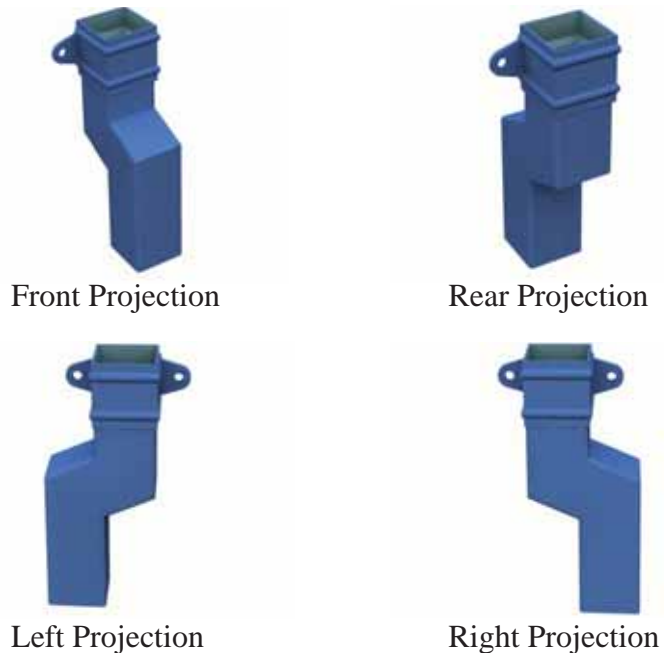


Pipe Size (mm)	A (mm)	B (mm)	Code Flush Fit	Code 200mm s/off
76x76	136	25	3SPCFFS	3SPCSO200S
101x76	168	25	43PCFFS	43PCSO200S
101x101	168	25	4SPCFFS	4SPCSO200S

Notes:

1. Downpipes when supplied with cast collars will be square shouldered unless otherwise requested

2. When ordering items such as swan-necks, bends, & Y-Branches combined with cast collars (plain or eared) it is necessary to specify the orientation of the collar.





# 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.

## 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.

## ADSHHEAD 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.



## ADSHEAD RATCLIFFE

### Technical Datasheet Arbosil 1096

#### Technical Data

<b>Properties</b>	<b>Values</b>
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

REV. NO./REPL. SDS GENERATED 26/02/04

SDS NO. 10171

### RISK PHRASES IN FULL

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.