



## Alifabs (Woking) Limited

Kernel Court  
Walnut Tree Close  
Guildford  
Surrey GU1 4UD

Tel: 01483 546547 Fax 01483 546548  
e-mail: sales@alifabs.com  
website: www.alifabs.com

(47)	Hh4
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**Agrément  
Certificate  
No 03/4037**

Designated by Government  
to issue  
European Technical  
Approvals

## ALIFABS ARCHITECTURAL ALUMINIUM COPING SYSTEM

Chaperon en aluminium  
Mauerabdeckung

### Product



• THIS CERTIFICATE RELATES TO THE ALIFABS ARCHITECTURAL ALUMINIUM COPING SYSTEM.

• The system includes coping sections, corners, abutments, including sections, tee-junctions, column caps and stopends, and is individually designed and fabricated for each separate installation.

### Regulations

#### 1 The Building Regulations 2000 (as amended) (England and Wales)



The Secretary of State has agreed with the British Board of Agrément the aspects of performance to be used by the BBA in assessing the compliance of coping systems with the Building Regulations. In the opinion of the BBA, the Alifabs Architectural Aluminium Coping System, if used in accordance with the provisions of this Certificate, will meet or contribute to meeting the relevant requirements.

Requirement: C4

Resistance to weather and ground moisture

Comment:

A wall fitted with the Alifabs Architectural coping system will meet this Requirement. See section 8 of this Certificate.

Requirement: Regulation 7

Materials and workmanship

Comment:

The Alifabs Architectural coping system is acceptable. See sections 9.1 and 9.2 of this Certificate.

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## 2 The Building Standards (Scotland) Regulations 1990 (as amended)



In the opinion of the BBA, the Alifabs Architectural Aluminium Coping System, if used in accordance with the provisions of this Certificate, will satisfy or contribute to satisfying the various Regulations and related Technical Standards as listed below.

Regulation:	10	Fitness of materials and workmanship
Standard:	B2.1	Selection and use of materials, fittings, and components, and workmanship
Comment:		The product can contribute to a construction meeting this Standard. See the <i>Installation</i> part of this Certificate.
Standard:	B2.2	Selection and use of materials, fittings, and components, and workmanship
Comment:		The product is an acceptable material. See sections 9.1 and 9.2 of this Certificate.
Regulation:	17	Resistance to moisture
Standard:	G3.1	Resistance to precipitation — Resistance to precipitation
Comment:		A wall fitted with the Alifabs Architectural coping system will satisfy this Standard. See section 8 of this Certificate.

## 3 The Building Regulations (Northern Ireland) 2000



In the opinion of the BBA, the Alifabs Architectural Aluminium Coping System, if used in accordance with the provisions of this Certificate, will satisfy or contribute to satisfying the various Building Regulations as listed below.

Regulation:	B2	Fitness of materials and workmanship
Comment:		The Alifabs Architectural coping system is acceptable. See sections 9.1 and 9.2 of this Certificate.
Regulation:	C4	Resistance to ground moisture and weather
Comment:		A wall fitted with the Alifabs Architectural coping system will satisfy this Regulation. See section 8 of this Certificate.

## 4 Construction (Design and Management) Regulations 1994 (as amended) Construction (Design and Management) Regulations (Northern Ireland) 1995 (as amended)

Information in this Certificate may assist the client, planning supervisor, designer and contractors to address their obligations under these Regulations.

See section: 13 *General* (13.1).

## Technical Specification

### 5 Description

5.1 The Alifabs Architectural Aluminium Coping System comprises coping sections, fixing straps, fastening clips and accessories. The coping sections have a mill finish to the aluminium. Sections finished with a powder coating are available, but have not been assessed by the BBA and are outside the scope of this Certificate. The exact design of any proposed installation is established by a site survey, or from detailed plans of the site.

5.2 Coping sections are pressed from 2 mm thick mill finish aluminium sheet grade EN AW 1050A-H14, EN AW 3103-H14, or EN AW 4015-H12, to BS EN 485-2 : 1995, BS EN 515 : 1993 and BS EN 573-3 : 1995. They can be fabricated for any wall thickness, and their design is shown in Figure 1. They have a 2° fall and a minimum overlap of 35 mm on each side of the wall. Copings for the most common thicknesses of wall are shown in Table 1.

Table 1 Common thicknesses and weight

Maximum wall width (mm)	Coping width (mm)	Length (m)	Approximate weight (kgm <sup>-1</sup> )
112	182	3.0	2.25
150	220	3.0	2.5
220	290	3.0	2.9
276	346	3.0	3.2
338	408	2.5	3.6

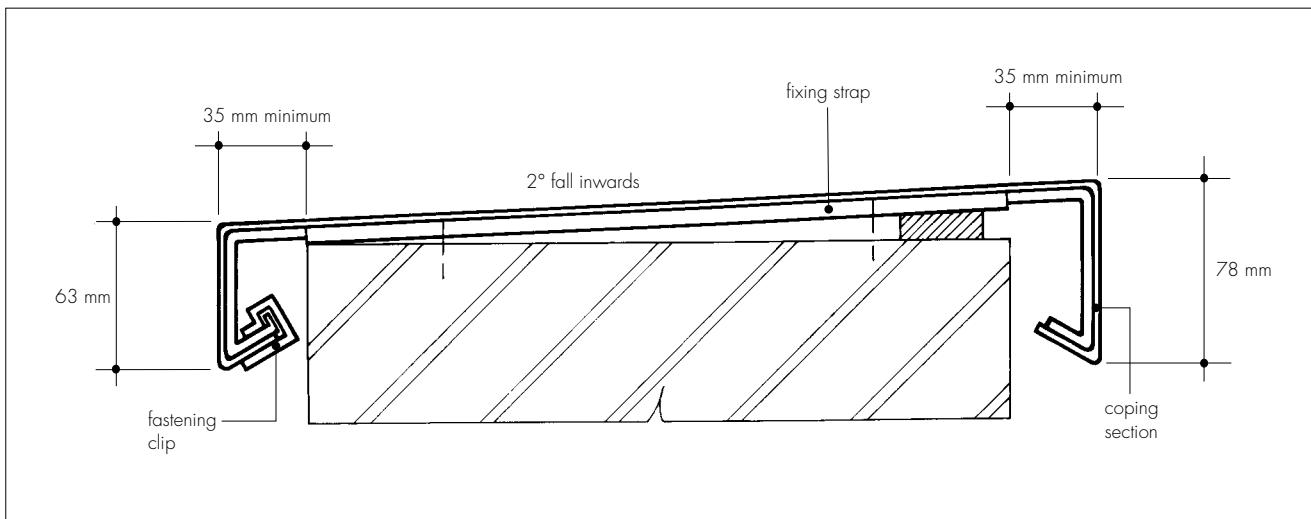
5.3 Where required, aluminium lightning conductor linkages are welded to the coping section.

5.4 Fixing straps are fabricated from aluminium alloy grades EN AW 6060-T6, EN AW 6063-T6 and EN AW 6082-T6 to BS EN 485-2 : 1995, BS EN 515 : 1993 and BS EN 573-3 : 1995. They have an EPDM seal, bonded to the top surface, and a coat of zinc chromate paint on the reverse.

5.5 Fastening clips are fabricated from aluminium alloy grade EN AW 6060-T6 to BS EN 485-2 : 1995, BS EN 515 : 1993 and BS EN 573-3 : 1995.

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Figure 1 Section through coping



5.6 Accessories including 90° and other corners, stopends, upstands, tee-junctions, inclined copings and column caps are pressed from aluminium sheet grade EN AW 1050A-H14, EN AW 3103-H14, or EN AW 4105-H12, to BS EN 485-2 : 1995, BS EN 515 : 1993 and BS EN 573-3 : 1995, mitred if necessary, welded, and ground to a smooth finish.

## 6 Delivery and site handling

Coping sections are delivered to site unprotected. They should be stored on bearers on a firm dry base, away from the possibility of impact damage, scratching, or contact with cement, copper, and other corrosive materials, preferably in dry conditions. Fixing straps and fastening clips are supplied in cardboard boxes which bear the BBA identification mark incorporating the number of this Certificate.

## Design Data

### 7 General

7.1 The Alifabs Architectural Aluminium Coping System is satisfactory for use on parapets, perimeter walls, columns and piers.

7.2 The fixing method used is secure, and the joints in the system can accommodate the coping's thermal movement.

### 8 Weather resistance



The coping has an adequate fall, and the fixings are concealed behind joints fitted with an EPDM seal. Consequently the coping system effectively protects the top of the wall or column from the weather.

## 9 Durability



9.1 The aluminium components of the system will perform effectively, without maintenance, for a period of 30 years in rural or suburban surroundings, or 20 years in severe industrial surroundings<sup>(1)</sup>.

(1) Excluding the immediate vicinity of, and downwind from chemical plants, copper foundries, cement works and other factories which produce contaminants particularly corrosive to aluminium.

9.2 It may be necessary to replace the EPDM seals during the periods quoted in section 9.1.

## 10 Compatibility

The coping should not be installed in contact with copper or its alloys, nor should it be bedded into mortar or concrete. Contact with galvanized or stainless steel, or with lead is harmless in rural or suburban areas, but the contact area should be painted with bitumen paint in marine or industrial areas.

## 11 Maintenance

The coping is easily removed and replaced. Damaged coping sections can be replaced using the normal installation procedure.

## Installation

### 12 Survey

The design of the coping sections for a particular installation is determined by preliminary site survey, or from detailed plans of the site.

### 13 General

13.1 The coping system must be installed in accordance with this Certificate and the

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manufacturer's installation instructions. The coping sections delivered to site carry reference numbers, indicating their position on the roof plan (supplied).

13.2 Appropriate measures should be taken to ensure safe access during the work.

## 14 Procedure

14.1 The sections are positioned on the wall and the positions of the fixing straps are marked. The fixing straps are attached to the wall, using wallplugs and four 38 mm long No 10 roundhead woodscrews [of galvanized, sherardised or stainless steel (see Figure 2)]. Half-straps are fixed at corners and piers. Packing pieces (of preserved timber, if timber is used) are inserted to give a 2° inward fall.

14.2 At tee-junctions joggle clips are used to secure the coping. Two straps are fitted in the normal manner to the ends of the transverse part of

the tee, and the position of the third strap (on the stem of the tee) is marked. The coping is then removed and one side of the third strap is fixed to the wall using two joggle clips. The strap is then slid out from beneath the joggle clips and the coping is re-fitted to the wall. The third strap is then slid under the joggle clips, fixed to the wall using two screws, and the coping secured by sliding on the fastening clip (see Figure 3). Corner sections are fitted in a similar way.

14.3 The intermediate sections of coping are fitted over the fixing straps, and the fastening clips are slid into position and fixed with nylon buttons. A minimum expansion gap of 3 mm is left between sections.

14.4 Where required, the contact area is sanded, and aluminium lightning conductor linkages are secured using stainless steel self-tapping screws and continuity paste.

Figure 2 Installation method

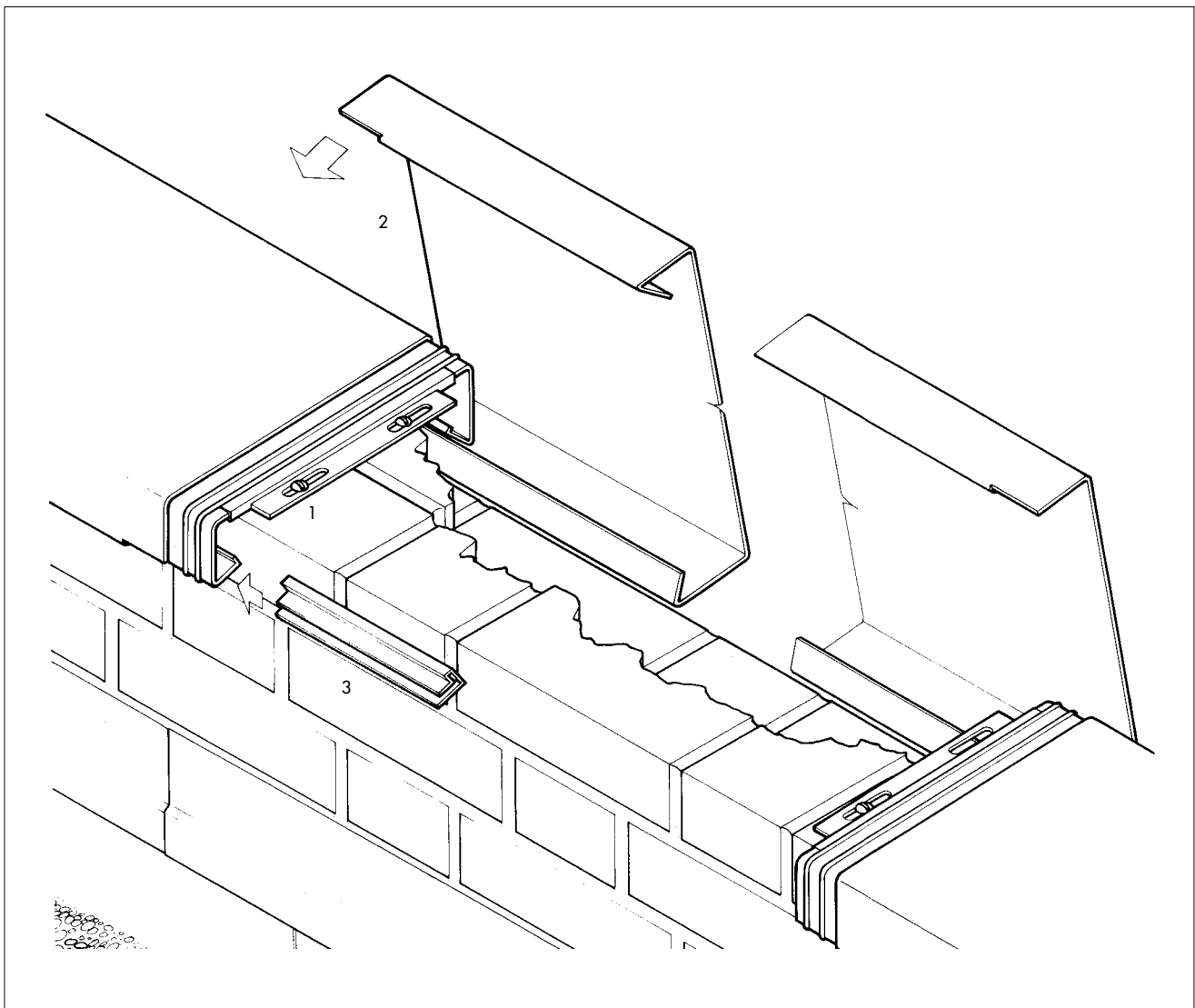
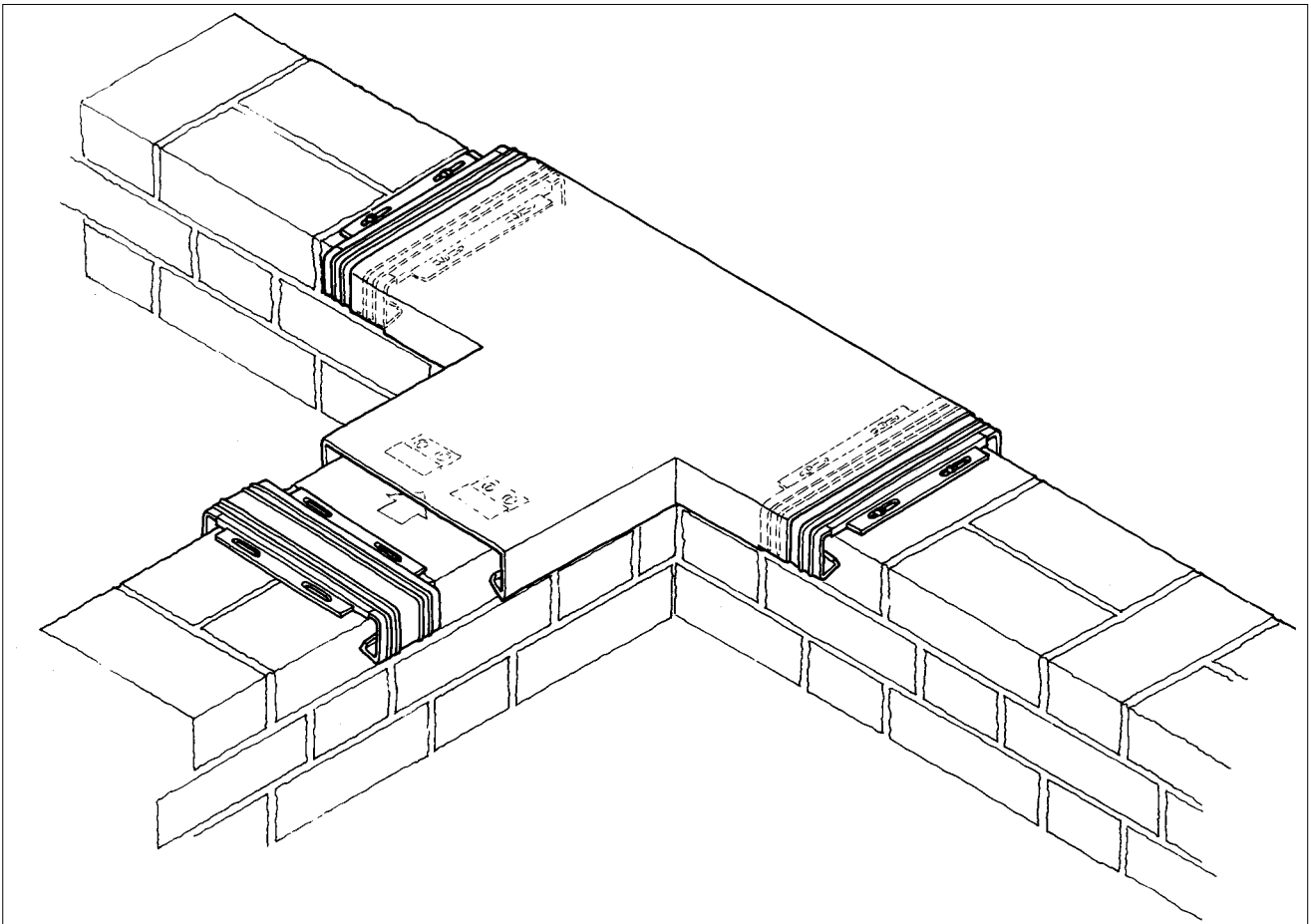


Figure 3 Tee-junctions



## Technical Investigations

The following is a summary of the technical investigations carried out on the Alifabs Architectural Aluminium Coping System.

### 15 Tests and investigations

15.1 As part of the assessment leading to the issue of previous Certificate Nos 83/1133 and 87/1893:

- tests were carried out to assess the practicability of installation and resistance to water penetration at joints
- the manufacturing process was examined and details obtained of the quality and composition of the materials used
- visits were made to existing sites to assess the performance of the system in service. Coping was removed to allow examination of the seal.

15.2 Data were examined on:

- resistance to wind uplift
- durability and compatibility of aluminium alloys.

15.3 A postal survey was made on existing Alifabs coping system installations.

15.4 Regular factory inspections have been carried out to ensure that quality is being maintained.

### 16 Other investigations

As part of the assessment leading to the issue of this Certificate:

- a postal user survey was carried out on existing Alifabs coping system installations
- a factory visit was conducted to verify that quality of production was being maintained
- an examination was made of the Certificate holder's technical literature and installation instructions
- a re-examination was made of the existing data and investigations on which the previous Certificates were based.

## Bibliography

BS EN 485-2 : 1995 *Aluminium and aluminium alloys — Sheet, strip and plate — Mechanical properties*

BS EN 515 : 1993 *Aluminium and aluminium alloys — Wrought products — Temper designations*

BS EN 573-3 : 1995 *Aluminium and aluminium alloys — Chemical composition and form of wrought products — Chemical composition*

## Conditions of Certification

### 17 Conditions

17.1 This Certificate:

- (a) relates only to the product that is described, installed, used and maintained as set out in this Certificate;
- (b) is granted only to the company, firm or person identified on the front cover — no other company, firm or person may hold or claim any entitlement to this Certificate;
- (c) has to be read, considered and used as a whole document — it may be misleading and will be incomplete to be selective;
- (d) is copyright of the BBA.

17.2 References in this Certificate to any Act of Parliament, Regulation made thereunder, Directive or Regulation of the European Union, Statutory Instrument, Code of Practice, British Standard, manufacturers' instructions or similar publication, shall be construed as references to such publication in the form in which it was current at the date of this Certificate.

17.3 This Certificate will remain valid for an unlimited period provided that the product and the manufacture and/or fabricating process(es) thereof:

- (a) are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA;

(b) continue to be checked by the BBA or its agents; and

(c) are reviewed by the BBA as and when it considers appropriate.

17.4 In granting this Certificate, the BBA makes no representation as to:

- (a) the presence or absence of any patent or similar rights subsisting in the product or any other product;
- (b) the right of the Certificate holder to market, supply, install or maintain the product; and
- (c) the nature of individual installations of the product, including methods and workmanship.

17.5 Any recommendations relating to the use or installation of this product which are contained or referred to in this Certificate are the minimum standards required to be met when the product is used. They do 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 or in the future; nor is conformity with such recommendations to be taken as satisfying the requirements of the 1974 Act or of any present or future 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 installation and use of this product.



In the opinion of the British Board of Agrément, the Alifabs Architectural Aluminium Coping System is fit for its intended use provided it is installed, used and maintained as set out in this Certificate. Certificate No 03/4037 is accordingly awarded to Alifabs (Woking) Limited.

On behalf of the British Board of Agrément

Date of issue: 13th August 2003

Chief Executive

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**British Board of Agrément**

P O Box No 195, Bucknalls Lane  
Garston, Watford, Herts WD25 9BA  
Fax: 01923 665301

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e-mail: [mail@bba.star.co.uk](mailto:mail@bba.star.co.uk)  
website: [www.bbacerts.co.uk](http://www.bbacerts.co.uk)



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scope, tel: Hotline 01923 665400,  
or check the BBA website.