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Agrément Certificate  
**14/5151**  
Product Sheet 1

### ARCHIBALD KENRICK & SONS ESPAGNOLETTE LOCKING SYSTEMS

#### KSES ESPAGNOLETES

This Agrément Certificate Product Sheet<sup>(1)</sup> relates to the KSES Espagnolettes, for use as a locking system for PVC-U, timber or aluminium windows to allow secure closure of window sashes with the aid of an espagnolette handle.

(1) Hereinafter referred to as 'Certificate'.

#### 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

**Resistance to wear and fatigue** — the products have sufficient resistance to wear under normal use to provide a service life consistent with that of a window (see section 5).

**Durability** — the products have been tested and classified to BS EN 1670 : 2007 and have adequate resistance to corrosion in the conditions envisaged throughout the expected life of windows (see section 7).

The BBA has awarded this Certificate to the company named above for the products described herein. These products have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément



John Albon — Head of Approvals  
Energy and Ventilation



Claire Curtis-Thomas  
Chief Executive

Date of First issue: 29 August 2014

*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](http://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.*

# Regulations

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.

## 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.

# Additional Information

## NHBC Standards 2014

NHBC accepts the use of KSES Espagnolettes, provided they are installed, used and maintained in accordance with this Certificate in relation to *NHBC Standards, Chapter 6.7 Doors, windows and glazing.*

# Technical Specification

## 1 Description

1.1 KSES Espagnolettes are available in a range of sizes (see Table 1), with two to four locking cams and two to eight fixing holes according to length.

1.2 A 7.15 mm square spindle drive is located in the lockcase that drives the cams into their locking position. This spindle drive is operated by an espagnolette handle<sup>(1)</sup>.

(1) Outside the scope of this Certificate.

1.3 The metallic components of the Espagnolette Bolts (see Figure 1) are made from mild steel, grade CS1 for the cover bar and locking bar, and a zinc alloy die-casting, grade ZP5 to BS EN 12844 : 1998 for the gearbox. All components are plated with a zinc plate with a clear lacquer finish.

Figure 1 Typical Espagnolette Bolt

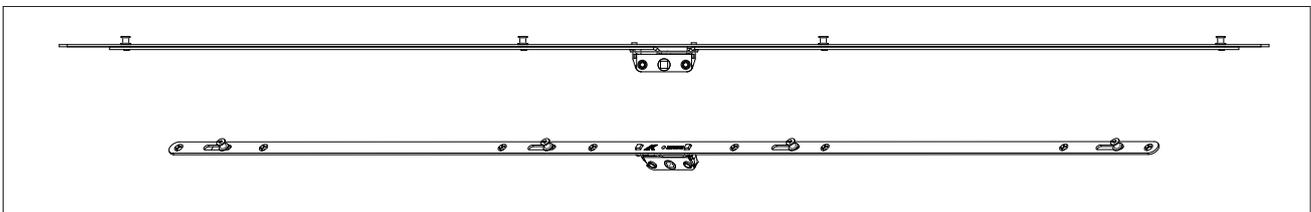


Table 1 KSES Espagnolette — ranges

Description	Number of cams
250 mm Espagnolette Bolt	2
400 mm Espagnolette Bolt	2
600 mm Espagnolette Bolt	2
800 mm Espagnolette Bolt	2
1000 mm Espagnolette Bolt	3
1200 mm Espagnolette Bolt	4

## 2 Manufacture

2.1 The locking cams are riveted to the lock bar through the cover bar. The gearbox is riveted to the cover bar and drives the lock bar.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

### 3 Delivery and site handling

3.1 The products are packed in cardboard boxes, each containing 20 espagnolettes, and boxes are labelled with the BBA identification mark incorporating the number of this Certificate.

3.2 Boxes should be stored under cover in a clean area and suitably supported to avoid distortion or damage.

## Assessment and Technical Investigations

The following is a summary of the technical investigations carried out on KSES Espagnolettes.

### Design Considerations

#### 4 Use

4.1 KSES Espagnolettes and associated keeps are suitable for use in top-hung and side-hung windows made from PVC-U, timber or aluminium, within the limits shown in Table 1. Windows must have an outer frame/sash design suitable for correct fixing of the espagnolettes and keeps using appropriate screws<sup>(1)</sup> through the profiles or reinforcement. The Certificate holder will advise on the suitability of window profiles.

(1) Outside the scope of this Certificate.

4.2 The products are available in 20 mm and 22 mm lockcase backsets to suit the design of the window system.

4.3 The eccentrically adjustable cams, which are either 8 mm or 10 mm according to customer requirements, can be adjusted by  $\pm 1$  mm for weatherseal compression.

4.4 A range of die-cast zinc keeps are available from the Certificate holder to suit a range of profiles.

#### 5 Resistance to wear and fatigue

5.1 KSES Espagnolettes were tested for cyclic operation in accordance with BS EN 1191 : 2012 and exceeded Class 3 — Heavy Duty when classified to BS EN 12400 : 2002 (see Table 2).

Table 2 Endurance results

Description	Comments
1150 mm Espagnolette Bolt	Normal operation after 25,000 cycles

5.2 KSES Espagnolettes were tested for minimum closing device resistance in accordance with BS EN 13126-4 : 2008, clause 5.4 and passed the requirements of that Standard.

#### 6 Maintenance

6.1 The products should be cleaned and lubricated every 12 months to minimise wear and to ensure smooth operation.

6.2 If damage occurs, the products can be replaced by removing the fixing screws and replacing the espagnolette.

#### 7 Durability

7.1 The products were tested for resistance to salt spray as defined in BS EN 1670 : 2007 and achieved Grade 4 — Very high corrosion resistance.

7.2 The products are constructed from durable materials and, when installed in accordance with this Certificate, will last the expected life of the window. Where windows are to be installed in areas subject to particularly corrosive conditions (such as coastal locations or near sources of industrial pollutants), espagnolettes may have to be replaced within the life of the window.

7.3 The products may need to be replaced within the life of a window if they become damaged.

#### 8 Reuse and recyclability

The products comprise plated mild steel and zinc alloy, which can be recycled.

### Installation

#### 9 General

9.1 Installation of KSES Espagnolettes must be carried out in accordance with the Certificate holder's instructions, using suitable corrosion resistant screws<sup>(1)</sup>.

(1) Outside the scope of this Certificate.

9.2 The correct size of products should be chosen to suit the height/width.

## 10 Procedure

The espagnolettes are screwed to the window sash, and the associated keeps to the outer frame or transom/mullion.

## Technical Investigations

### 11 Tests

Tests were carried out to determine:

- cyclic operation in accordance with BS EN 1191 : 2012
- minimum closing device resistance in accordance with BS EN 13126-4 : 2008, clause 5.4
- resistance to salt spray in accordance with BS EN 1670 : 2007.

### 12 Investigations

12.1 An assessment was made of the durability of the components used in the manufacture of the products.

12.2 The manufacturing process was evaluated, including the methods adopted for quality control, and details were obtained of the quality and compositions of materials used.

## Bibliography

BS EN 1191 : 2012 *Windows and doors — Resistance to repeated opening and closing — Test method*

BS EN 1670 : 2007 *Building hardware — Corrosion resistance — Requirements and test methods*

BS EN 12400 : 2002 *Windows and pedestrian doors — Mechanical durability — Requirements and classification*

BS EN 12844 : 1998 *Zinc and zinc alloys — Castings — Specifications*

BS EN 13126-4 : 2008 *Building hardware — Requirements and test methods for windows and doors height windows — Espagnolettes*

## 13 Conditions

13.1 This Certificate:

- relates only to the product/system that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page — no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- 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.

13.2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

13.3 This Certificate will remain valid for an unlimited period provided that the product/system and its manufacture and/or fabrication, including all related and relevant parts and 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.

13.4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

13.5 In issuing this Certificate, the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- 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
- actual installations of the product/system, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product/system is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product/system, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to CE marking.

13.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal 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, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue 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.