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## DOMESTIC CHIMNEY PRODUCTS

### CHIMNEY SHEEP

This Agrément Certificate Product Sheet <sup>(1)</sup> relates to Chimney Sheep<sup>(2)</sup> a round, square or rectangular pad formed from felted wool used as a removable domestic chimney draught excluder to reduce air flow.

(1) Hereinafter referred to as 'Certificate'.

(2) Chimney Sheep is a registered trade mark.

#### 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

**Air flow** — when installed, the product will significantly reduce the air flow through the chimney (see section 6).

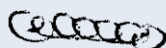
**Behaviour in relation to fire** — the product has a reaction to fire classification of Class E in accordance with BS EN 13501-1 : 2007 (see section 7).

**Durability** — under normal conditions of use, the product has a service life in excess of five years (see section 10).



The BBA has awarded this 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: 1 March 2019

John Albon – Head of Approvals  
Construction Products

Claire Curtis-Thomas  
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](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.*

*Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.*

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## Regulations

In the opinion of the BBA, the use of Chimney Sheep is not subject to the national Building Regulations.

### Construction (Design and Management) Regulations 2015 Construction (Design and Management) Regulations (Northern Ireland) 2016

In the opinion of the BBA, there is no information in this Certificate which relates to the obligations of the client, designer (including Principal Designer) and contractor (including Principal Contractor) under these Regulations.

## Technical Specification

### 1 Description

1.1 Chimney Sheep comprises a pair of treated felt wool pads formed from the shorn fleece of Herdwick sheep. The pads are available in round, square and rectangular forms and incorporate a centre clamp for attaching a 300 mm in length plastic rod, and handle with safety dangle tag. Additionally, the largest rectangular size product (360 by 910 mm) is reinforced with upholstery card between the pads.

1.2 The product is available in a range of dimensions as given in Table 1.

Shape	Thickness (mm)	Diameter/width x length (mm)
Round	24	190, 250,300
Square	24	330 x 330
Rectangular	24	150 x 410, 230 x 410, 200 x 510, 300 x 510, 360 x 610, 360 x 710, 360 x 910

(1) Bespoke sizes within these ranges are also available.

### 2 Manufacture

2.1 The wool blanket is stamp pressed to size and the pads are paired-up then stitched together with a small middle hole being punched by a swing arm press. The stitched pads are treated with insecticide, then allowed to dry and a plastic centre clamp installed.

2.2 As part of the assessment and ongoing<sup>(1)</sup> 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 product is delivered packed in a polythene bag, together with instructions for use, a plastic handle and a safety dangle tag.

3.2 The product should not be allowed to get wet. If wet, the product must be allowed to dry naturally before use.

## Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Chimney Sheep.

### 4 Use

4.1 Chimney Sheep is satisfactory for use as a removable draught excluder in domestic chimney applications when the fire is not in use.

4.2 The fire must be completely extinguished with no chance of reigniting and the chimney cool, before Chimney Sheep is inserted.

4.3 The safety dangle tag must be clearly visible to ensure that Chimney Sheep is removed before a fire is started.

### 5 Practicability of installation

The product is designed to be installed by the home owner.

### 6 Air flow

6.1 In tests, the product reduced air flow through an example chimney by over 90%.

6.2 By reducing the warm air flow through the chimney, heat loss and carbon dioxide emission reductions will be achieved; the level of reductions will be dependent on a number of factors and cannot be quantified in this Certificate.

6.3 Users should ensure that remaining ventilation paths, planned and fortuitous, are sufficient to maintain adequate water vapour egress and internal air quality.

### 7 Behaviour in relation to fire

7.1 The product achieved a fire classification of E in accordance with BS EN 13501-1 : 2007.

7.2 The woollen pad demonstrated a high resistance to ignition in accordance with BS 6807 : 2006 with respect to both near and far positions of ignition source.

7.3 The plastic handle lost structural integrity but demonstrated no molten flaming droplets when tested to BS 6807 : 2006 with a far location ignition source.

### 8 Resistance to attack by insects or mould

8.1 The product was tested for attack by insects in accordance with EOTA CUAP 12. 01-02, Annex D, treatment of the wool indicated that an infestation of common clothes moth (*Tineola bisselliella*) or furniture carpet beetle (*Anthrenus flavipes*) is unlikely to occur.

8.2 The product was tested for potential mould growth in accordance with Austrian Standard ÖNORM B 6010, and performance of the product was concluded to be equivalent to untreated wool.

### 9 Maintenance

If the product becomes heavily soiled then it can be washed and dried in accordance with the Certificate holder's instructions. Over time, the felt head may become frayed around the edges; these may be trimmed with scissors to ensure a continuing tight fit. No other maintenance is required.

### 10 Durability

Under normal service conditions, the product has a service life in excess of five years.

## 11 Reuse and recyclability

The woollen Chimney Sheep head is compostable at the end of its working life.

### Installation

## 12 General

12.1 The chimney dimensions are measured and the correct sized Chimney Sheep selected (nominally 25 mm larger than the chimney opening).

12.2 The plastic handle supplied is screwed together and onto the centre clamp.

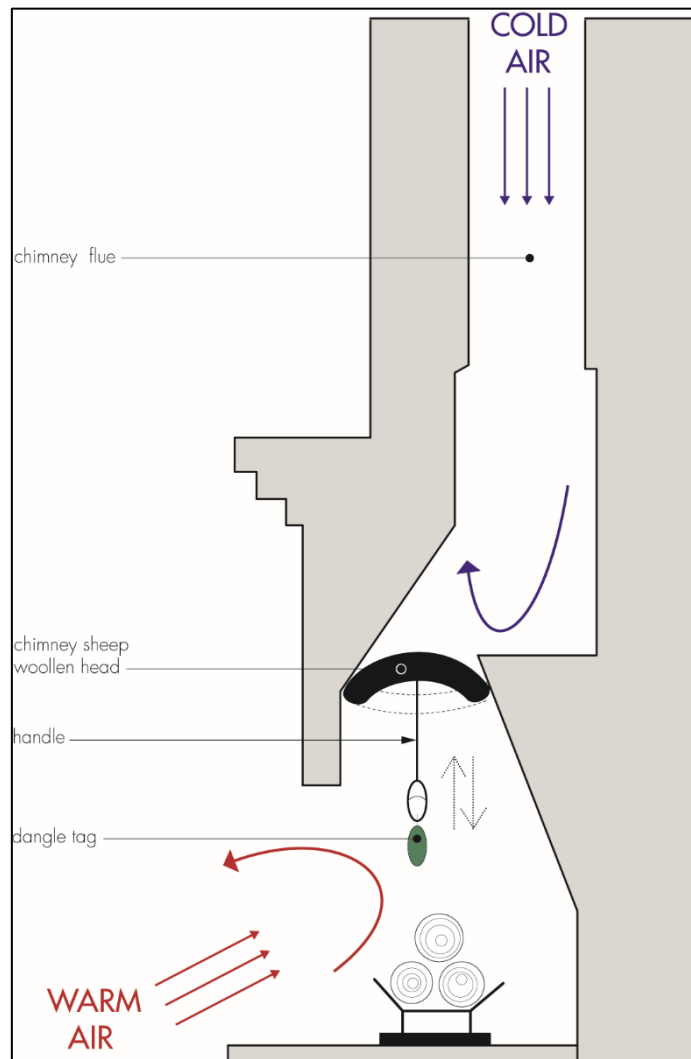
12.3 Holding the handle, Chimney Sheep is inserted into the base of the chimney, until it achieves a snug fit. The installed detail is shown in Figure 1.

12.4 The product is removed by pulling the handle gently downwards, taking care to ensure that any chimney debris is safely collected.

12.5 Following a fire in the fireplace, the chimney must be allowed to cool sufficiently before reinserting Chimney Sheep.

12.6 The safety dangle tag must be clearly visible in the fire hearth to remind users to remove Chimney Sheep before lighting any fire.

Figure 1 Typical installed detail



### 13 Tests

A series of tests were carried out and the results assessed to determine:

- dry heat shrinkage
- shrinkage at specified temperature and humidity
- loss of fibre upon handling.

### 14 Investigations

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

14.2 An assessment was made of the following data:

- chimney air flow
- determination of, heat loss and carbon dioxide emission reduction
- resistance to ignition of handle
- fire classification
- determination of resistance to attack by wool eating insects
- assessment of resistance to mould growth.

## Bibliography

BS EN 13501-1 : 2007 + A1 : 2009 *Fire classification of construction products and building elements – Classification using test data from reaction to fire tests*

BS 6807 : 2006 *Methods of test for assessment of the ignitability of mattresses, upholstered divans and upholstered bed bases with flaming types of primary and secondary sources of ignition*

EOTA Common Understanding Assessment Procedure 12.01-02 *In-situ formed loose fill thermal insulation material and / or acoustic insulation material made of vegetable or animal fibres*

ÖNORM B 6010 *Materials for thermal and/or acoustic insulation in building construction – Test methods – Determination of mould fungus growth*

### 15 Conditions

#### 15.1 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.

15.2 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.

15.3 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.

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

15.5 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.

15.6 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.