



## Easy Joist Ltd

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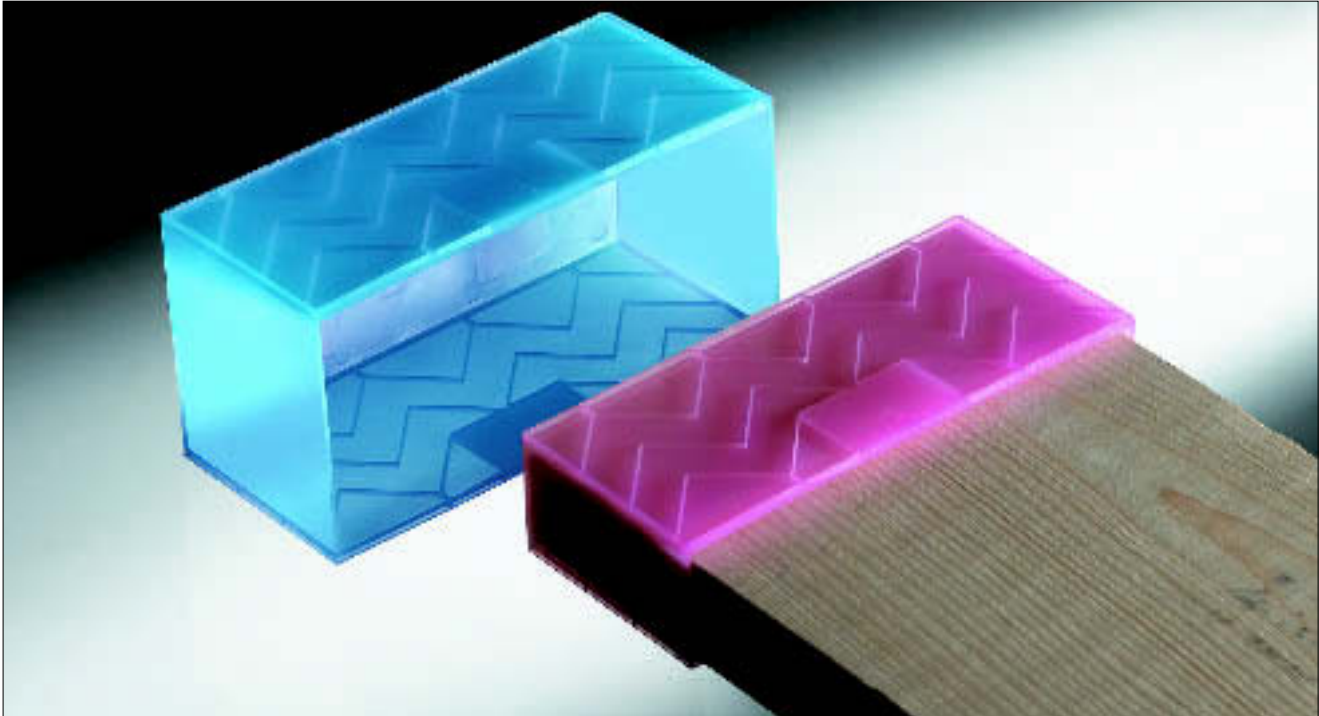
**Agrément  
Certificate  
No 06/4293**

Designated by Government  
to issue  
European Technical  
Approvals

## JOIST HELMET

Appareil de sceller  
Verschluß


## Product



- THIS CERTIFICATE RELATES TO THE JOIST HELMET.
- The product is for use in the inner leaf of external masonry cavity walls, and in separating cavity walls to limit air leakage associated with built-in timber joists.

## 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 joist end caps with the Building Regulations. In the opinion of the BBA, the Joist Helmet, if used in accordance with the provisions of this Certificate, will meet or contribute to meeting the relevant requirements.

Requirement: A1	Loading
Comment:	Providing restraint straps are used as required, the product will not have an adverse effect on wall stability. See sections 7.2 and 7.3 of this Certificate.
Requirement: B3(1)(2)	Internal fire spread (structure)
Comment:	As the product is not exposed, its use will not affect the fire resistance of the floor. See section 8.1 of this Certificate.
Requirement: C2(b)(c)	Resistance to moisture
Comment:	The product will not affect the ability of the wall to meet this Requirement.
Requirement: E1	Protection against sound from other parts of the building and adjoining buildings
Comment:	By limiting air paths, the product will contribute to meeting this Requirement. See section 10 of this Certificate.

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Requirement:	L1(a)(i)	Conservation of fuel and power
Comment:		The product will contribute to reducing unwanted air leakage from the edges of intermediate floors. See section 9 of this Certificate.
Requirement:	Regulation 7	Materials and workmanship
Comment:		The product is an acceptable material. See section 12 of this Certificate.

## 2 The Building (Scotland) Regulations 2004



In the opinion of the BBA, the Joist Helmet, if used in accordance with the provisions of this Certificate, will satisfy or contribute to satisfying the various Regulations and related Mandatory Standards as listed below.

Regulation:	8	Fitness and durability of materials and workmanship
Regulation:	8(1)	Fitness and durability of materials and workmanship
Comment:		The product can contribute to a construction satisfying this Regulation. See section 12 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards — construction
Standard:	1.1(a)(b)	Structure
Standard:	1.2	Disproportionate collapse
Comment:		Providing restraint straps are used as required, the product will not have an adverse effect on the ability of the structure to satisfy these Standards, with reference to clauses 1.1.1 <sup>(1)(2)</sup> and 1.2.1 <sup>(1)(2)</sup> . See sections 7.2 and 7.3 of this Certificate.
Standard:	2.2	Separation
Comment:		As the product is not exposed, its use will not affect the fire resistance of the floor, with reference to clause 2.2.7 <sup>(1)(2)</sup> . See section 8.1 of this Certificate.
Standard:	3.15	Condensation
Comment:		Use of the product will not affect the ability of the wall to satisfy this Standard, with reference to clause 3.15.1 <sup>(1)(2)</sup> .
Standard:	5.1	Resisting sound transmission to dwellings
Comment:		By limiting air paths, the product will contribute to meeting this Standard, with reference to clauses 5.1.1 <sup>(2)</sup> and 5.1.3 <sup>(1)</sup> . See section 10 of this Certificate.
Standard:	6.2	Building insulation envelope
Comment:		The product will contribute to satisfying this Standard, with reference to clause 6.2.5 <sup>(1)(2)</sup> . See section 9 of this Certificate.

(1) Technical Handbook (Domestic).  
(2) Technical Handbook (Non-Domestic).

## 3 The Building Regulations (Northern Ireland) 2000



In the opinion of the BBA, the Joist Helmet, 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 product is an acceptable material. See section 12 of this Certificate.
Regulation:	C4	Resistance to ground moisture and weather
Comment:		Use of the product will not affect the moisture resistance of the wall.
Regulation:	D1	Stability
Comment:		Providing restraint straps are used as required, the product will not have an adverse effect on wall stability. See sections 7.2 and 7.3 of this Certificate.
Regulation:	E4	Internal fire spread — Structure
Comment:		As the product is not exposed, its use will not affect the fire resistance of the floor. See section 8.1 of this Certificate.
Regulation:	F2	Building fabric
Comment:		The product will contribute to satisfying this Regulation. See section 9 of this Certificate.
Regulation:	G2(1)	Separating walls and separating floors
Comment:		By limiting air paths, the product will contribute to satisfying this Regulation. See section 10 of this Certificate.

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

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

In the opinion of the BBA there is no information in this Certificate which relates to the obligations of the client, planning supervisor, designer and contractors to address their obligations under these Regulations.

## Technical Specification

### 5 Description

5.1 The Joist Helmet is an open-ended box made of injection-moulded polypropylene. The product is available in two sizes, each identified by a colour, (see Table 1).

Table 1 Range of sizes

Internal dimensions Height (mm) x width (mm)	Colour
228 x 50	Pink
228 x 98	Blue

5.2 Markings on the translucent box allow the joist to be positioned during installation. Ribs on the side provide a key with the surrounding mortar.

5.3 Quality control includes inspection of incoming test certificates for the polypropylene material and the colouring agent, and regular visual and dimensional checks during manufacture.

### 6 Delivery and site handling


6.1 The product is delivered to either the retailer or direct to site in standard cardboard boxes and bears the product identification and the BBA logo incorporating the number of this Certificate.

6.2 Boxes should be stored away from direct sunlight and excessive heat.

## Design Data

### 7 General

7.1 The Joist Helmet is for use in the inner leaf of external masonry cavity walls, and in separating cavity walls, to limit air leakage associated with built-in timber joists.

 7.2 The minimum bearing length of the joist on the wall should be 90 mm.

7.3 Restraint straps must be provided as required (see section 14.3).

7.4 Masonry walls incorporating the product must be at least 100 mm thick and be constructed

in accordance with one or more of the following technical specifications:

- BS 5628-1 : 2005 and BS 5628-3 : 2005
- the national Building Regulations:

#### *England and Wales*

Approved Document A1/2, Section 2C


#### *Scotland*

Mandatory Standards 1.1 and 1.2

#### *Northern Ireland*


Technical Booklet D.

### 8 Behaviour in relation to fire


 8.1 As the product, mounted on an internal leaf, is of limited area and is not exposed to fire, it need not be taken into account when considering the classification of the fire resistance of the floor.

8.2 The product, when used in a separating masonry cavity wall, will not adversely effect the fire resistance of the wall.

### 9 Air leakage

 The product will limit unwanted air leakage between a ceiling void and wall cavity and thereby minimise heat loss by air infiltration, as required by statutory regulations concerning the conservation of fuel and power.


### 10 Sound transmission

 In a separating masonry, cavity wall, the product will limit air paths around joist ends and, therefore, contribute to limiting sound transmission.

### 11 Practicability of installation

Installation is straightforward and can be carried out by tradesmen using traditional skills following the procedures and conditions laid down in this Certificate.

### 12 Durability

 The product is durable and, will not suffer significant degradation when protected within the inner leaf of a cavity wall. The product should last the normal expected life of a building.

### 13 General

13.1 Throughout the installation of the Joist Helmet care should be exercised to prevent damage to the product.

13.2 As the product does not provide any lateral stability to the joists, temporary bracing should be provided as the work progresses.

### 14 Procedure (see Figure 1)

14.1 The joists are laid out ensuring that there is a minimum bearing length of 90 mm on the masonry inner leaf of the wall.

14.2 The product is pushed onto the end of each joist and after repositioning and final adjustment, fixed to the joist by nails through the holes provided.

14.3 For additional installation details see Figure 2.

14.4 Restraint straps should be fitted as required.

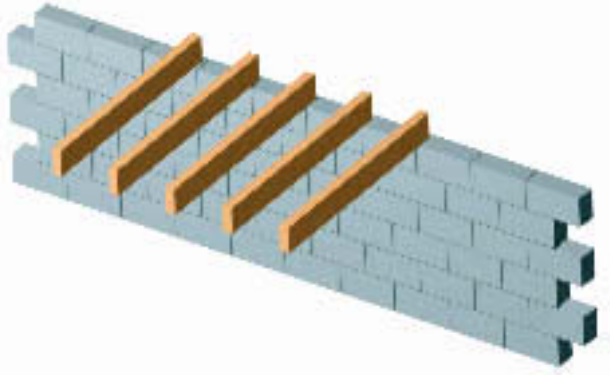
14.5 In blockwork walls, blocks are cut square to fit tightly between the joist caps. Blocks should be cut with a saw and the use of brick infills should be avoided. In brick walls, cut bricks should be turned with uncut edges against the product.

14.6 Any voids within the Joist Helmet or gaps between the box and the wall should be filled with mortar. In general, to minimise air leakage, joint filling of the masonry should be of consistently high quality (see section 7.3)

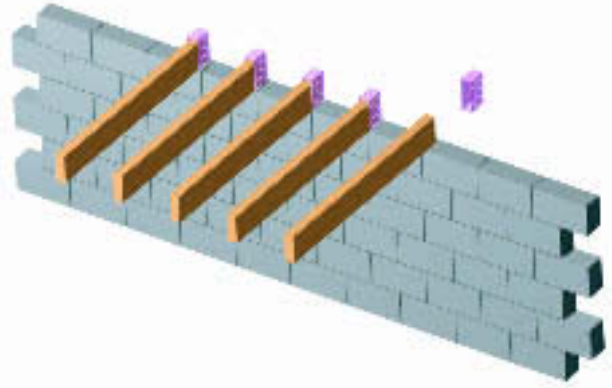
14.7 The wall is completed following normal practice, and the surrounding detail added in the conventional manner.

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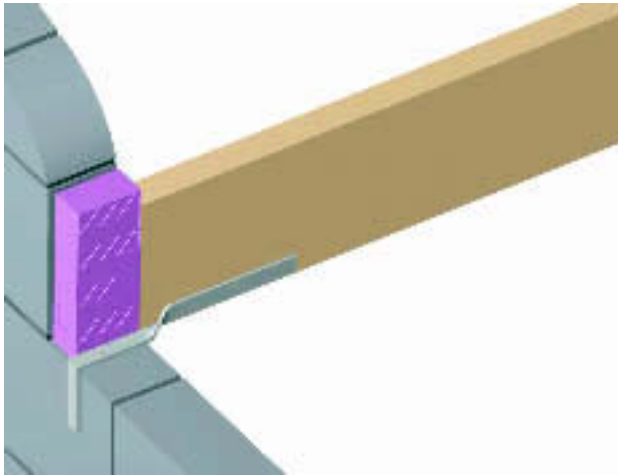
Figure 1 Installation sequence



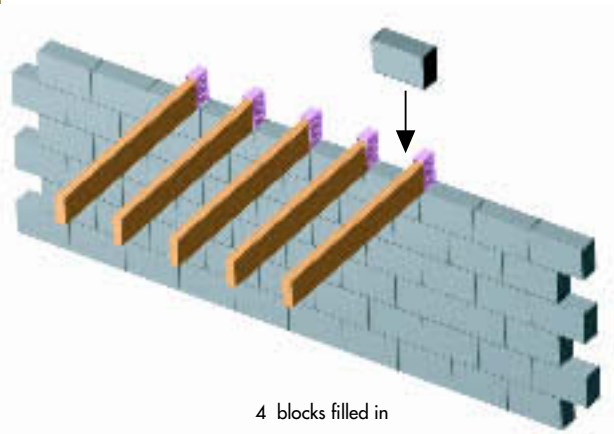
1 joist laid in position



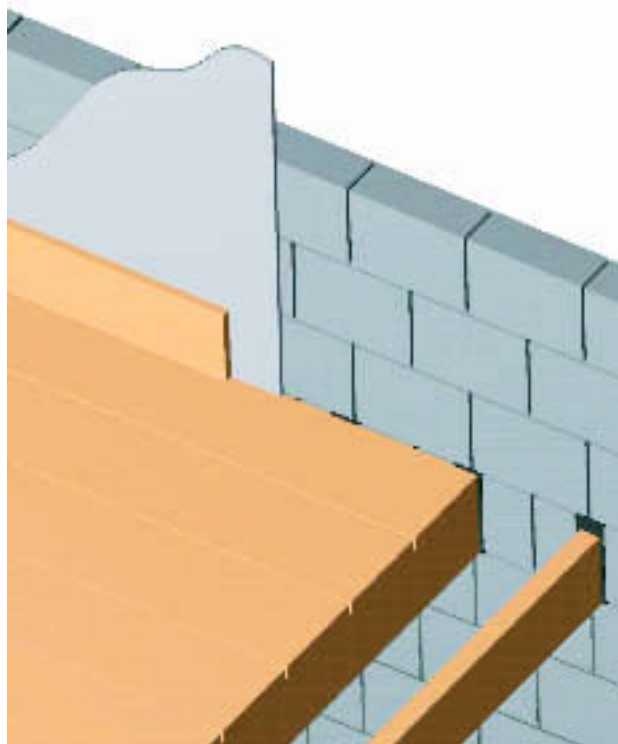
2 joist caps fitted



3 restraint straps fixed

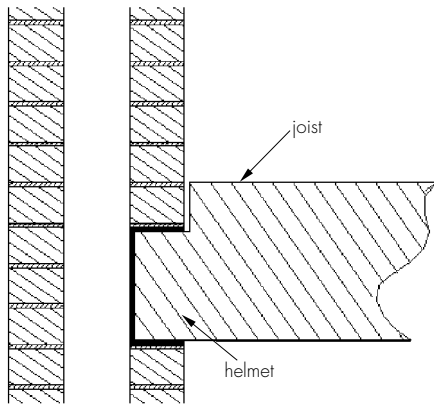


4 blocks filled in

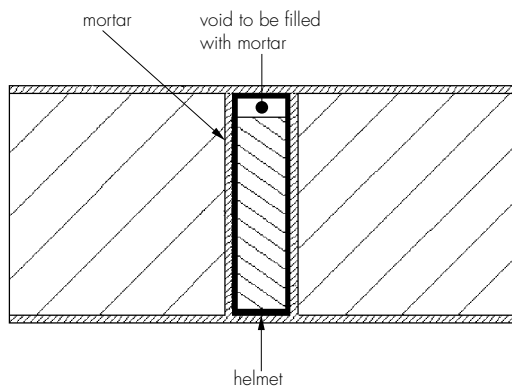


5 wall and floor finish

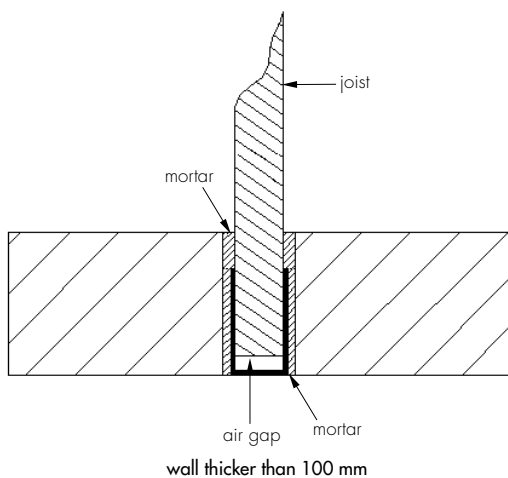
Figure 2 Alternative installations



joist depth larger than the depth of Joist Helmet  
(notch not to exceed one third of joist depth)



joist depth smaller than the depth of Joist Helmet



## Technical Investigations

The following is a summary of investigations carried out on the Joist Helmet.

### 15 Investigations

15.1 The practicability of installation was assessed by examination of the product literature.

15.2 A factory visit was made to assess the manufacture and quality control of the product.

15.3 An assessment was made of:

- durability of the polypropylene used in the construction of the product
- airtightness of the product from leakage tests
- reaction to fire of the constituent materials
- the effect of the product on the fire resistance of a separating wall, from tests
- the effect of the product on the sound transmission resistance of a separating wall.

## Bibliography

- BS 5628-1 : 2005 *Code of practice for the use of masonry — Structural use of unreinforced masonry*  
 BS 5628-3 : 2005 *Code of practice for the use of masonry — Materials and components, design and workmanship*

## Conditions of Certification

### 16 Conditions

16.1 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.

16.2 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, are references to such publication in the form in which it was current at the date of this Certificate.

16.3 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.

16.4 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 or 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.

16.5 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 or in the future; nor is conformity with such information 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 manufacture, supply, installation, use and maintenance of this product/system.



In the opinion of the British Board of Agrément, the Joist Helmet is fit for its intended use provided it is installed, used and maintained as set out in this Certificate. Certificate No 06/4293 is accordingly awarded to Easy Joist Ltd.

On behalf of the British Board of Agrément

Date of issue: 28th July 2006

A handwritten signature in black ink, appearing to read 'G. A. Cooper'.

Chief Executive

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**British Board of Agrément**

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Certificate, including validity and  
scope, tel: Hotline 01923 665400,  
or check the BBA website.