

BNR LapVents

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Agrément Certificate

06/4327

Product Sheet 1

LAPVENT ROOF VENTILATORS

LAPVENT

PRODUCT SCOPE AND SUMMARY OF CERTIFICATE

This Certificate relates to LapVent, for use in traditional roof constructions with unsupported membranes to provide ventilation via the batten cavity. They are for use in conjunction with conventional roofing components on new and existing tiled and slated pitched roofs built in accordance with BS 5534 : 2003. The accessories that accompany the vent are assembled on site.

AGRÉMENT 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

Condensation — the product can contribute to limit the risk of surface and interstitial condensation (see section 5).

Weathertightness — use of the product will not affect the ability of a roof to comply with national Building Regulations (see section 6). The product incorporates a mesh which prevents insects and wildlife infestation (see section 9.2).

Durability — the product has a life equivalent to other components of the roof (see section 10).

The BBA has awarded this Agrément 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

Handwritten signature of Sean Moriarty in black ink.

Sean Moriarty
Head of Approvals — Physics

Handwritten signature of Greg Cooper in black ink.

Greg Cooper
Chief Executive

Date of First issue: 23 November 2011

Originally certificated on 31 March 2006

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

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.

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Regulations

In the opinion of the BBA, LapVent, if used in accordance with the provisions of this Certificate, will meet or contribute to meeting the relevant requirements of the following Building Regulations:



The Building Regulations 2010 (England and Wales)

Requirement:	C2(b)	Resistance to moisture
Comment:		The product will not affect a roof to satisfying this requirement. See section 6.1 of this Certificate.
Requirement:	C2(c)	Resistance to moisture
Comment:		The product can contribute to meeting this requirement. See section 5.1 of this Certificate.
Requirement:	Regulation 7	Materials and workmanship
Comment:		The product is acceptable. See section 10 and the <i>Installation</i> part of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)(2)	Fitness and durability of materials and workmanship
Comment:		The product is acceptable. See sections 9 and 10 and the <i>Installation</i> part of this Certificate.
Regulation:	9	Building standards – construction
Standard:	3.10	Precipitation
Comment:		The product will not affect the ability of a roof to satisfy this Standard, with reference to clauses 3.10.1 ⁽¹⁾⁽²⁾ . See section 6.1 of this Certificate.
Standard:	3.15	Condensation
Comment:		The product can contribute to satisfying this Standard, with reference to clauses 3.15.0 ⁽¹⁾⁽²⁾ , 3.15.1 ⁽¹⁾⁽²⁾ , 3.15.3 ⁽¹⁾⁽²⁾ , 3.15.4 ⁽¹⁾⁽²⁾ , 3.15.5 ⁽¹⁾⁽²⁾ , and 3.15.6 ⁽¹⁾⁽²⁾ . See section 5.1 of this Certificate.
Regulation:	9	Building standards – conversions
Comment:		All comments given for this product under Regulation 9, also apply to this Regulation with reference to clause 0.12.1 ⁽¹⁾⁽²⁾ and Schedule 6 ⁽¹⁾⁽²⁾ . (1) Technical Handbook (Domestic). (2) Technical Handbook (Non-Domestic).



The Building Regulations (Northern Ireland) 2000 (as amended)

Regulation:	B2	Fitness of materials and workmanship
Comment:		The product is acceptable. See section 10 and the <i>Installation</i> part of this Certificate.
Regulation:	B3(2)	Suitability of certain materials
Comment:		The product is acceptable. See section 9 of this Certificate.
Regulation:	C4(b)	Resistance to ground moisture and weather
Comment:		The product will not affect the ability of a roof to satisfy this Regulation. See section 6.1 of this Certificate.
Regulation:	C5	Condensation
Comment:		The product can contribute to meeting this Regulation. See section 5.1 of this Certificate.

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.

Non-regulatory Information

NHBC Standards 2011

NHBC accepts the product as a means of meeting the ventilation requirement in Clauses 7.2-D11(a) and S11(a) when used with vapour permeable underlays.

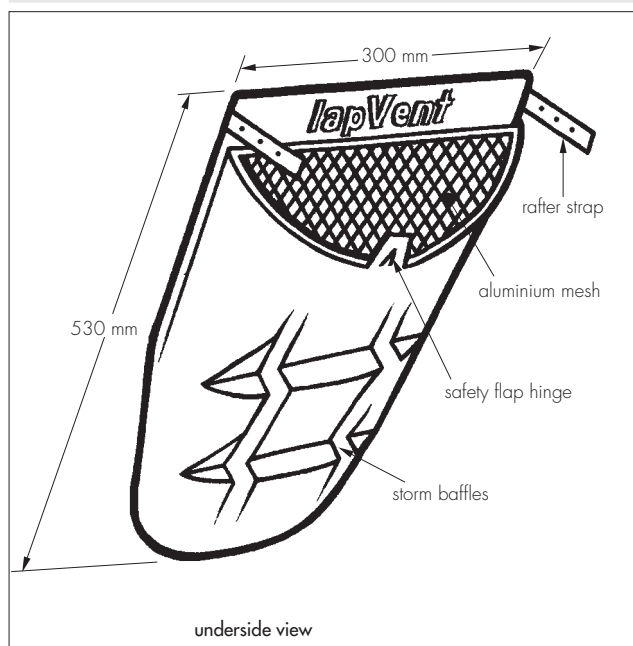
Technical Specification

1 Description

1.1 The LapVent is manufactured from recycled ABS plastic using an injection moulding process. The vent is fitted with a protective aluminium mesh that acts as a screen against the entry of insects and wildlife into the roof. The product with the mesh fitted has a net geometric free area of 20 000 mm² and a mean equivalent area of 10 000 mm² at 1 Pa pressure difference. The product has a depth of 120 mm. It also has a safety flap that closes the vent to limit the load on the tiles or slates when there is a sudden change in air pressure and storm baffles to prevent the ingress

of wind-driven rain, and snow (see Figure 1). Normally the flap closes at an air pressure of $70 \text{ m}^3 \cdot \text{h}^{-1}$. The product incorporates side clips that hold the cover in position and rafter straps that hold the vent body in position.

Figure 1 LapVent



1.2 The product is for use in traditional roof construction to provide roof space ventilation.

2 Delivery and site handling

2.1 The product is packaged complete with installation instructions.

2.2 Each package bears the manufacturer's name and the BBA identification mark incorporating the number of this Certificate.

Assessment and Technical Investigations

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

Design Considerations

3 Use

3.1 The product is suitable for use in traditional construction to provide roof space ventilation.

3.2 Ancillary items used with the product include:

- replacement membrane — a piece of roof tile underlay used around the vent to prevent moisture ingress and make weatherproof
- fixing battens — to secure replacement membrane to rafter.

4 Practicability of installation

4.1 The product is designed to be installed by a competent person, or a contractor, familiar with this type of product.

4.2 Installation of the product can be easily achieved under normal site conditions either during roof construction or more specifically, after or during the slating/tiling operation or, in existing roofs from inside the loft.

5 Condensation

5.1 When installed according to the Certificate holder's instructions, the product will enable air transfer between the ventilated void above the roof tile underlay and the loft space and contribute to satisfying the requirement of BS 5250 : 2002 and assist in decreasing the risk of harmful condensation.

5.2 In still air conditions convection due to temperature effects, will ensure that the airflow continues.

5.3 The product has a net geometric area of 20000 mm^2 and a mean equivalent area of 10000 mm^2 .

6 Weathertightness



6.1 The weathertightness of a traditionally tiled or slated roof will not be adversely affected by the introduction of the product provided an adequate lap is maintained.

6.2 The design of the product is such that it will not allow driving rain or snow to get through, see section 1.1.

7 Strength and stability

The product has adequate strength to resist damage during site handling or installation.

8 Behaviour in relation to fire

The installation of the product in traditional roof constructions using clay or concrete roof tiles or slates does not affect the rating for such constructions.

9 Maintenance



9.1 Though the risk of blockage is minimal, the vents can be examined occasionally and cleaned if necessary from inside.

9.2 The product incorporates an aluminium mesh which prevents infestation by insects and wildlife.

10 Durability



The product is durable and will have a service life comparable to that of other roofing components.

Installation

11 General

11.1 Installation of the LapVent must be in accordance with the Certificate holder's instructions.

11.2 For new constructions, the tiled and slated pitched roof must be constructed in accordance with the relevant clauses of BS 5534 : 2003.

11.3 For new constructions, the roof tile underlay must be installed in accordance with the relevant clauses of BS 5250 : 2002.

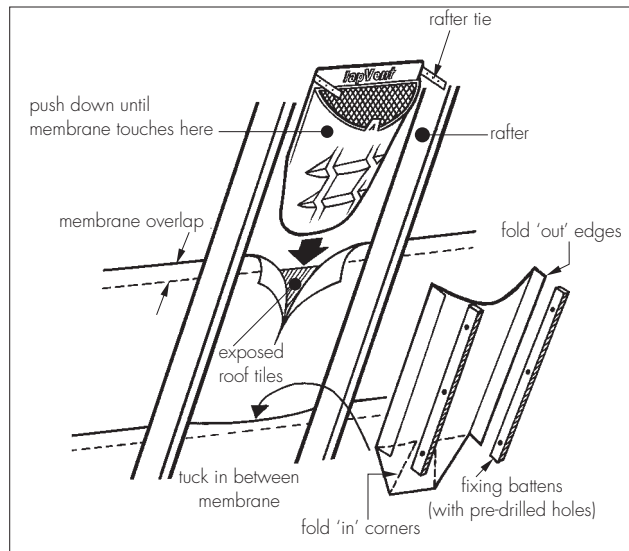
11.4 Installation of the product can be readily achieved under normal site conditions either during roof construction or in existing roofs from inside the loft.

11.5 For buildings not meeting requirements 11.2 and 11.3, the advice of the Certificate holder should be sought.

12 Procedure

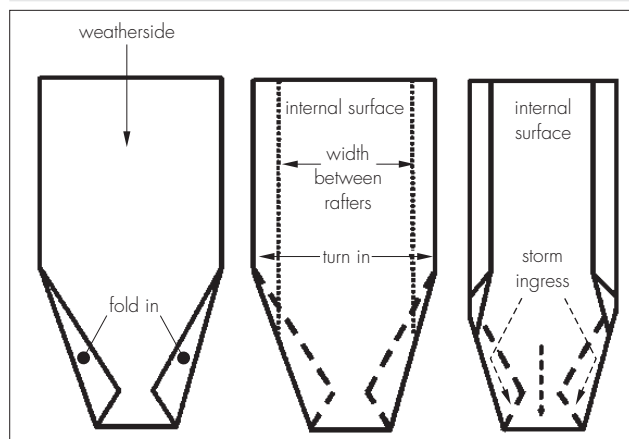
12.1 The vents are positioned between the rafters (cut or trussed roof layouts) and installed by cutting the membrane vertically starting at an overlap and sliding the vent into the space between the layers of roof tile underlay and against the slate/tile battens. Once the vent has been positioned the rafter ties are secured around each rafter. The LapVent should be installed staggered opposite each other across the roof in the tile underlay at a distance and height calculated by the installer to satisfy the relevant minimum building regulation requirements. Guidance is provided within the installation instructions. The number of LapVents required should be determined by a condensation risk analysis to allow enough ventilation in order to minimise any risk. A cover comprising a roof tile underlay or membrane of a similar material to the existing roof covering is placed over the vent body and attached to the rafters using battens (see Figure 2). Prefitted clips attach the roof tile underlay to the vent to hold it tightly against the body of the vent.

Figure 2 Installation



12.2 Care should be taken to ensure that the end of the replacement cover is tucked into the next lower overlap down between the layers of roofing membrane to ensure that any water is able to drain to the outside of the roof (see Figure 3).

Figure 3 Replacement membrane



12.3 The replacement underlay will not come into contact with the underside of the roof tiles when the product is fitted correctly.

Technical Investigations

13 Investigations

13.1 The manufacturing process for LapVent was examined, including the methods adopted for quality control and details were obtained of the materials used.

13.2 A survey of users/specifiers was conducted to assess the performance of the product in service.

13.3 An evaluation was made of durability of the material during the original assessment of the product.

13.4 An evaluation of the free area and equivalent area was carried out.

Bibliography

BS 5250 : 2002 *Code of practice for control of condensation in buildings*

BS 5534 : 2003 *Code of practice for slating and tiling (including shingles)*

14 Conditions

14.1 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.

14.2 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.

14.3 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.

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

14.5 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
- individual 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.

14.6 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.