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Agrément Certificate

07/4492

Product Sheet 7 Issue 5

FILON V-FLOW GRP VALLEY TROUGH AND FLASHINGS RANGE

FILON GRP DRY FIX VALLEY TROUGHS (GDFVT 70, GDFVT 110 AND GDFVTUB 55, 80, 105)

This Agrément Certificate Product Sheet⁽¹⁾ relates to Filon Dry Fix Valley Troughs (GDFVT 70, GDFVT 110 and GDFVTUB 55, 80 and 105), for use in slated or tiled pitched roofs constructed in accordance with the relevant requirements of BS 5534 : 2014, with a minimum pitch of 17.5° and a maximum pitch of 60°. The products provide a weatherproof junction where there are changes in direction or material in a slated and/or tiled roof structure.

(1) Hereinafter referred to as 'Certificate'.

The assessment includes

Product factors:

- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

Process factors:

- compliance with Scheme requirements
- installation, delivery, handling and storage
- production and quality controls
- maintenance and repair

Ongoing contractual Scheme elements†:

- regular assessment of production
- formal 3-yearly review



KEY FACTORS ASSESSED

- Section 1. Mechanical resistance and stability
- Section 2. Safety in case of fire
- Section 3. Hygiene, health and the environment
- Section 4. Safety and accessibility in use
- Section 5. Protection against noise
- Section 6. Energy economy and heat retention
- Section 7. Sustainable use of natural resources
- Section 8. Durability

The BBA has awarded this Certificate to the company named above for the products described herein. Those 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

Date of Fifth issue: 24 July 2024

Originally certified on 01 November 2012

Certificate amended on 11 December 2024 to revise section 2 and associated Building Regulations.

Hardy Giesler
Chief Executive Officer

This BBA Agrément Certificate is issued under the BBA's Inspection Body accreditation to ISO/IEC 17020. Sections marked with † are not issued under accreditation.

The BBA is a UKAS accredited Inspection Body (No. 4345), Certification Body (No. 0113) and Testing Laboratory (No. 0357).

Readers MUST check that this is the latest issue of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.

The Certificate should be read in full as it may be misleading to read clauses in isolation.

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

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SUMMARY OF ASSESSMENT AND COMPLIANCE

This section provides a summary of the assessment conclusions; readers should refer to the later sections of this Certificate for information about the assessments carried out.

Compliance with Regulations

Having assessed the key factors, the opinion of the BBA is that Filon GRP Dry Fix Valley Troughs (GDFVT 70, GDFVT 110 and GDFVTUB 55, 80 and 105), if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations:



The Building Regulations 2010 (England and Wales) (as amended)

Requirement:	B4(2)	External fire spread
Comment:		On a suitable substructure, the use of the products may enable a roof to be unrestricted under this Requirement. See section 2 of this Certificate.
Requirement:	C2(b)	Resistance to moisture
Comment:		The products will contribute to satisfying this Requirement. See section 3 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The products are acceptable. See sections 8 and 9 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	8(1)	Fitness and durability of materials and workmanship
Comment:		The use of the products satisfies the requirements of this Regulation. See sections 8 and 9 of this Certificate.
Regulation:	9	Building standards – construction
Standard:	2.8	Spread from neighbouring buildings
Comment:		When applied to a suitable substructure, the products may enable a roof to be unrestricted under clause 2.8.1 ⁽¹⁾⁽²⁾ of this Standard. See section 2 of this Certificate.
Standard:	3.10	Precipitation
Comment:		The product will contribute to satisfy this Standard, with reference to clauses 3.10.1 ⁽¹⁾⁽²⁾ and 3.10.8 ⁽¹⁾⁽²⁾ . See section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The products can contribute to satisfying the relevant requirements of Regulation 9, Standards 1 to 6, and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard.
Regulation:	12	Building standards – conversion
Comment:		All comments given for the products under Regulation 9, Standards 1 to 6, 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) 2012 (as amended)

Regulation:	23(1)(a)(i)	Fitness of materials and workmanship
Comment:	(iii)(b)(i)	The products are acceptable. See sections 8 and 9 of this Certificate.
Regulation:	28(b)	Resistance to moisture and weather
Comment:		The use of the products will enable a roof to satisfy the requirements of this Regulation. See section 3 of this Certificate.
Regulation:	36(b)	External fire spread
Comment:		On a suitable substructure, the use of the products may enable a roof to be unrestricted under this Regulation. See section 2 of this Certificate.

Additional Information

NHBC Standards 2024

In the opinion of the BBA, Filon GRP Dry Fix Valley Troughs (GDFVT 70, GDFVT 110 and GDFVTUB 55, 80 and 105), if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying to relevant requirements in relation to *NHBC Standards*, Chapter 7.2 *Pitched roofs*.

Fulfilment of Requirements

The BBA has judged Filon GRP Dry Fix Valley Troughs (GDFVT 70, GDFVT 110 and GDFVTUB 55, 80 and 105) to be satisfactory for use as described in this Certificate. The products have been assessed for use as a weatherproof junction where there are changes in direction or material in a slated or tiled roof structure.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the products under assessment. Filon GRP Dry Fix Valley Troughs (GDFVT 70, GDFVT 110 and GDFVTUB 55, 80 and 105) are glass fibre reinforced polyester laminates with a UV-resistant polyester film on the upper face. See Figures 1 to 5.

Figure 1 Filon GRP Dry Fix Valley Troughs — GDFVT 70

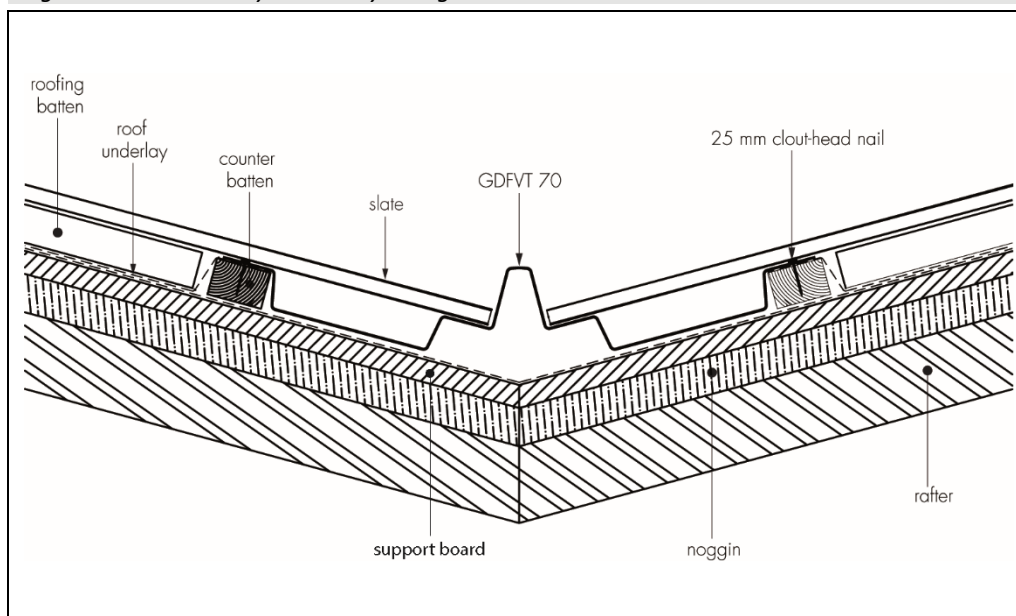


Figure 2 Filon GRP Dry Fix Valley Troughs — GDFVT 110

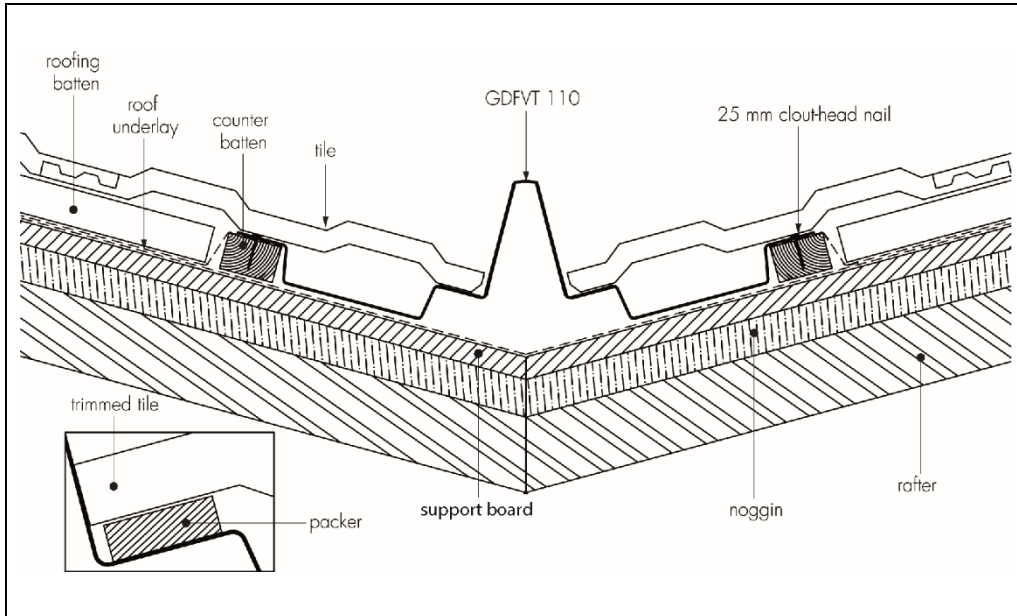


Figure 3 Filon GRP Dry Fix Valley Troughs (GDFVTUB 55)

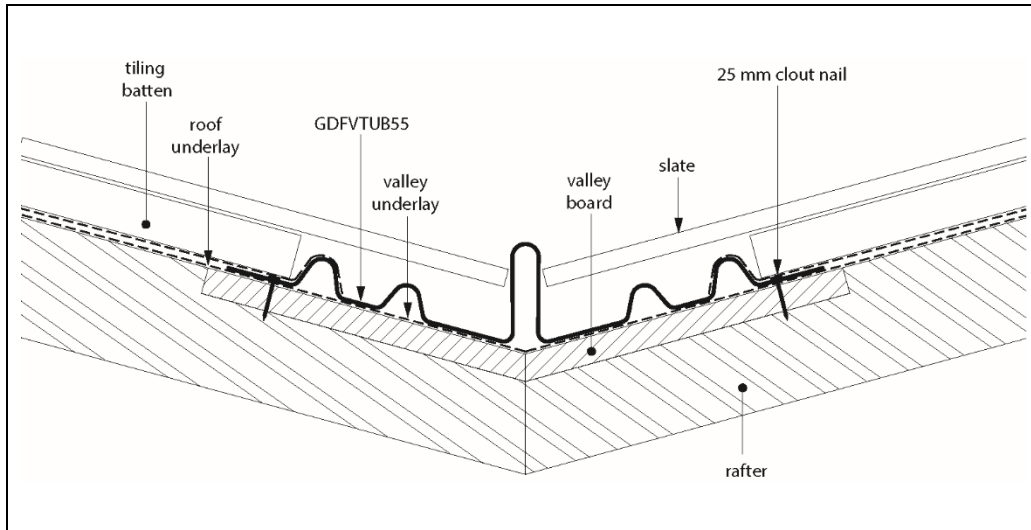


Figure 4 Filon GRP Dry Fix Valley Troughs (GDFVTUB 80)

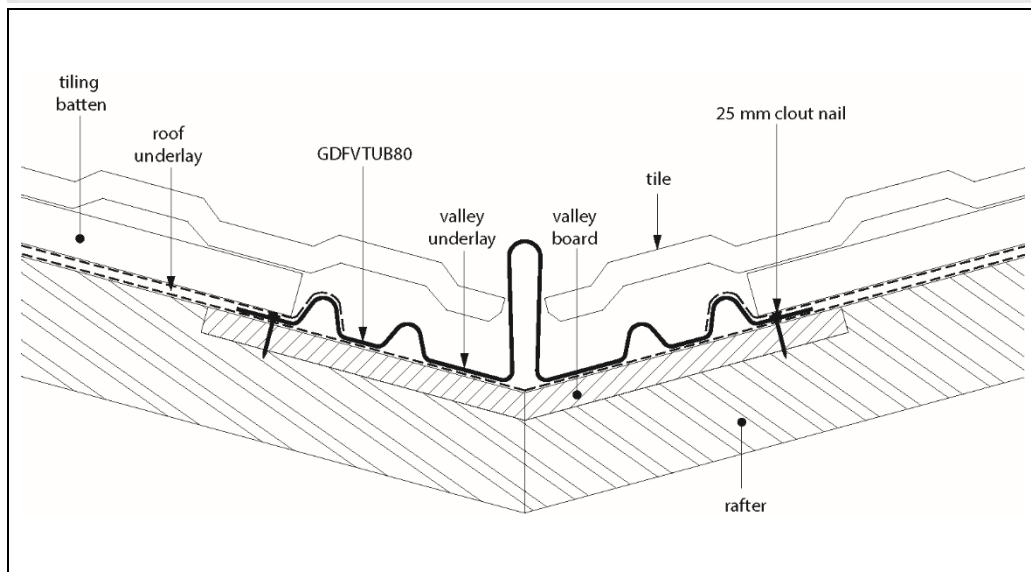
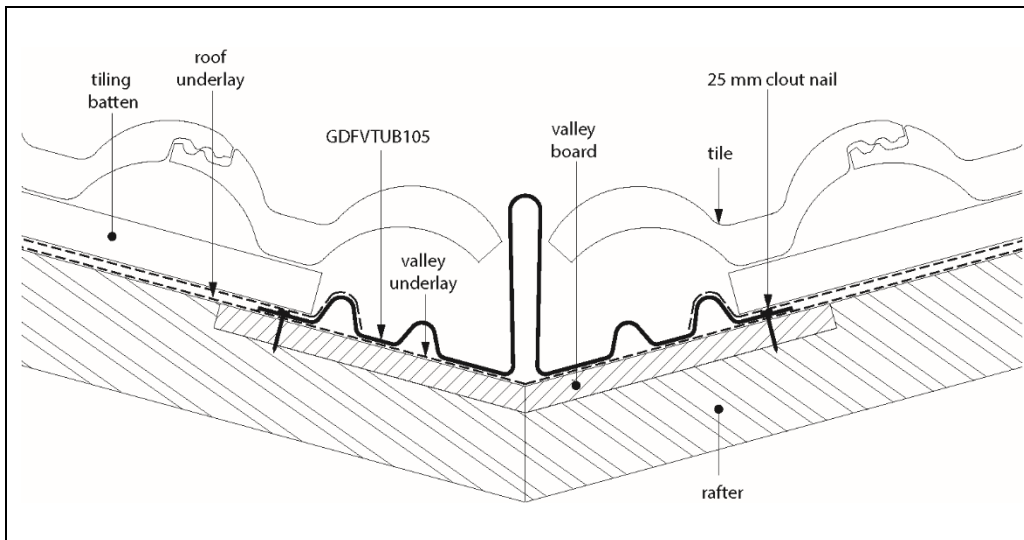


Figure 5 Filon GRP Dry Fix Valley Troughs (GDFVTUB 105)



The products have the nominal characteristics given in Table 1.

Table 1 Nominal characteristics of Filon GRP Dry Fix Valley Troughs (GDFVT 70, 110 and GDFVTUB 55, 80, 105)

Characteristic (unit)	Components				
	GDFVTUB 55	GDFVT 70	GDFVTUB 80	GDFVTUB 105	GDFVT 110
Length (m)	3	3	3	3	3
Width (mm)	400	400	400	400	400
Depth (mm)	55	70	80	105	110
Colour	Lead grey	Lead grey	Lead grey	Lead grey	Lead grey

Ancillary items

The Certificate holder recommends the following ancillary items for use with the products, but these materials have not been assessed by the BBA and are outside the scope of this Certificate:

- flexible polyurethane eaves closure pieces and top closure pieces, for overlaying on ends of GRP valley troughs,
- Filon Tile Support for use with small cut tiles.

Applications

The products are intended for use in the following applications:

- GDFVT 70 and GDFVTUB 55 suitable as flashing for use as valley troughs in slated pitched roofs
- GDFVT 110, GDFVTUB 80 and GDFVTUB 105) suitable as flashing for use as valley troughs in tiled pitched roofs.

Definitions for products and applications inspected

Pitched roofs are defined for the purpose of this Certificate as those having a fall in excess of 1:6.

Product assessment – key factors

The products were assessed for the following key factors, and the outcome of the assessment is shown below. Conclusions relating to the Building Regulations apply to the whole of the UK unless otherwise stated.

1 Mechanical resistance and stability

Data were assessed for the following characteristics.

1.1 Strength and stability

1.1.1 Results of strength and stability tests are given in Table 2.

Table 2 Results of strength and stability tests

Product assessed	Assessment method	Requirement	Result
A representative related product	Cross breaking strength to BS 2782 : Part 10 : Method 1005 : 1977 – Control	Value achieved	
	Flexural strength		177 MPa
	Elastic modulus		4985 MPa
A representative related product	Barcol hardness to BS 2782 : Part 10 : Method 1001 : 1977 tested at 23°C and 50%RH	Value achieved	
			46
A representative related product	Hard body impact to MOAT 22 : 1988	No significant damage	Pass
A representative related product	Tensile strength to BS 2782 : Part 3 : Method 320E : 1976	Value achieved	93.5 MPa
A representative related product	Elongation to BS 2782 : Part 3 : Method 320E : 1976	Value achieved	2.6%

1.1.2 On the basis of data assessed, the products will resist the normal loads and impacts associated with installation and use.

2 Safety in case of fire

Data were assessed for the following characteristics.

2.1 External fire spread

2.1.1 When tested to CEN/TS 1187 : 2012, Test 4 and classified to EN 13501-5 : 2016, a representative related product achieved B_{ROOF}(t4) for slopes above 10°. ⁽¹⁾

(1) Fire test report (No. 20053AJ) and fire classification report (No. 20053AF), issued by Warringtonfire Gent, copies available from the Certificate holder on request.

2.1.2 On the basis of data assessed, the products will be unrestricted by the documents supporting the national Building Regulations with respect to proximity to a relevant boundary.

2.1.3 This classification can be affected by other components of the roof, eg insulation materials, substrates/decking and membranes. These constructions must therefore be evaluated by reference to the requirements of the documents supporting the relevant national Building Regulations and any consequent restrictions imposed by those documents, on a case-by-case basis.

2.2 Reaction to fire

2.2.1 The Certificate holder has not declared a reaction to fire classification for the products to BS EN 13501-1 : 2018.

2.2.2 Designers must refer to the relevant national Building Regulations and guidance for detailed conditions of use, particularly in respect of requirements for substrate fire performance, cavity barriers, service penetrations and combustibility limitations for other materials and components used in the overall construction.

3 Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Weathertightness

3.1.1 The weathertightness of the product was assessed using test data from a representative related product and met the requirement of remaining watertight when subjected to a one metre head of water for 24 hours.

3.1.2 On the basis of data assessed, the products, when completely sealed, will adequately resist the passage of moisture to the inside of the building and so satisfy the relevant requirements of the national Building Regulations.

4 Safety and accessibility in use

Not applicable.

5 Protection against noise

Not applicable.

6 Energy economy and heat retention

Not applicable.

7 Sustainable use of natural resources

Not applicable.

8 Durability

8.1 The potential mechanisms for degradation and the known performance characteristics of the materials in the product were assessed.

8.2 Specific test data were assessed, as given in Table 3.

Table 3 Results of durability tests

Product assessed	Assessment method	Requirement	Result
A representative related product	Cross breaking strength to BS 2782 : Part 10 : Method 1005 : 1977	No significant loss of properties following ageing	Pass
	after water immersion for 30 days at 23°C to MOAT 9 : 1973		
	after water boil for 2 hours to MOAT 9 : 1973		
	after heat ageing for 7 days at 70°C to MOAT 9 : 1973		
A representative related product	after UV ageing - 4 hours UV at 50°C, followed by 4 hours of condensation at 50°C for 1000 light hours	No significant loss of properties following ageing	Pass
	Barcol hardness to BS 2782 : Part 10 : Method 1001 : 1977		
	after water immersion for 30 days at 23°C to MOAT 9 : 1973		
A representative related product	after water boil for 2 hours to MOAT 9 : 1973	No significant loss of properties following ageing	Pass
	after heat ageing for 7 days at 70°C to MOAT 9 : 1973		

8.3 Service life

Under normal service conditions, the products will have a service life in excess of 20 years, provided they are designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

PROCESS ASSESSMENT

Information provided by the Certificate holder was assessed for the following factors:

9 Design, installation, workmanship and maintenance

9.1 Design

9.1.1 The design process was assessed by the BBA and the following requirements apply to satisfy the performance specified in this Certificate.

9.1.2 The products must be designed in accordance with the relevant parts of BS 5534 : 2014, BS 8000-0 : 2014 and BS 8000-6 : 2023.

9.1.3 The troughs are suitable for roof pitches of between 17.5 and 60° with a maximum 20° pitch differential of adjacent roofs.

9.2 Installation

Filon GRP Dry Fix Valley Troughs - GDFVT 70 and GDFVT 110

9.2.1 The products must be fitted over timber valley boards of sufficient width to provide end support for the tiling battens, outside the counter battens. Where rafters are positioned at up to 600 mm centres, valley boards must be flush-fitted with the top of the rafters, and must be either a minimum of 19 mm softwood (or 12 mm ply) set between the rafters and supported on timber noggins, or 6 mm continuous ply boards laid over the rafters.

9.2.2 The valley must be first lined longitudinally with a single strip of 1 m wide, BS 8747 : 2007 Type 1F or BBA approved roofing underlay. A length of the valley trough is pressed to a snug fit into the valley and marked with a chalk line longitudinally along either side to indicate the required counter batten position.

9.2.3 Counter battens of the same depth as the roofing battens must be fixed along the marked lines to support the edges of the valley troughs, using nails of a quality acceptable in good roofing practice.

9.2.4 The roofing tile underlay must be laid, dressed over the counter batten. Roofing battens must be fitted with the ends firmly located onto the valley boards, positioned close to the counter batten, with care taken to avoid damaging the underlay.

9.2.5 Commencing at the foot of the valley, the troughs must be fixed using 25 mm clout-headed nails at maximum 500 mm centres onto the counter battens.

9.2.6 If the fascia board cannot be trimmed/cut out to allow the valley trough to be fixed without deforming, it may be necessary to form an overlap at the sprocketed eaves section in accordance with the Certificate holder's instructions.

9.2.7 Consecutive lengths of valley troughs must be laid, dressed to shed water down the slope, allowing a minimum 150 mm overlap (when measured vertically) at the joints. At the top of adjoining valleys, the troughs must be mitred and dressed with a Code 4 lead saddle (providing the aforementioned overlap length).

9.2.8 Slates or tiles must be laid in accordance with the manufacturer's recommendations. They must be cut to the rake of the valley, to be close fitted to the central elevated section of the valley trough and must not be forced against the valley trough central elevation.

9.2.9 In some instances, small cut tiles will not be supported by the internal support channel, in which case a packer section must be used (supplied with the valley troughs). The sealed tape is removed from the underside of the packing

piece, adhering it to the support channel so that it carries the cut tile⁽¹⁾ (see Figure 2). Alternatively, the tile adjacent to the cut tile must be nail fixed as per the tile manufacturer's recommendations.

(1) Small cut tiles must be fixed by traditional methods if possible.

Filon GRP Dry Fix Valley Troughs - GDFVTUB 55, GDFVTUB 80 and GDFVTUB 105

9.2.10 The products must be fitted over timber valley boards of sufficient width to provide end support for the tiling battens, outside the counter battens. Where rafters are positioned at up to 600 mm centres, valley boards must be flush-fitted with the top of the rafters, and must be either a minimum of 19 mm softwood (or 12 mm ply) set between the rafters and supported on timber noggins, or 6 mm continuous ply boards laid over the rafters.

9.2.11 The valley must first be lined longitudinally with a single strip of 1 m wide, BS 8747 : 2007 Type 1F roofing or BBA approved roofing underlay.

9.2.12 A length of the valley trough must be pressed to a snug fit into the valley and the side walls of the valley trough pressed together to reduce the gap in the peak.

9.2.13 Commencing at the foot of the valley, the troughs must be fixed using 25 mm clout-headed nails at maximum 500 mm centres into the valley boards.

9.2.14 The roof underlay must be laid, dressed over the valley trough outer water bar. Roofing battens must be fitted with the ends firmly located onto the valley trough fixing flange. Care should be taken to avoid damage to the underlay.

9.2.15 The fascia board may require trimming to ensure full water flow into the gutter.

9.2.16 Consecutive lengths of valley troughs must be laid, dressed to shed water down the slope, allowing a minimum 150 mm vertical overlap at the joints. At the top of adjoining valleys, the troughs must be mitred and dressed with a Code 4 lead saddle or other suitable material (providing the aforementioned overlap length).

9.2.17 Slates or tiles must be laid in accordance with the manufacturer's recommendations. They should be cut to the rake of the valley, to be close fitted to the peak of the valley trough and must not be forced against the valley trough peak.

9.2.18 In some instances, small cut tiles will not be supported by the internal support channel, in which case, a Filon Tile Support or proprietary stainless steel clip must be used.

Finishing

9.2.19 The roof slating/tiling must be carried out in accordance with the relevant parts of BS 5534 : 2014, BS 8000-0 : 2014 and BS 8000-6 : 2023.

9.2.20 When installing cut tiles or slates it is important that, to avoid any distortion, neither is forced to fit against the central raised section of the valley trough.

9.2.21 When the slating/tiling has been completed, the eaves closure section must be cut with a sharp knife or scissors to allow water discharge into the gutter.

9.2.22 It is important to ensure that the valley troughs must be cleared of any debris so that water flow is not obstructed.

9.3 Workmanship

Practicability of installation was assessed by the BBA, based on the Certificate holder's information and a survey of known users. To achieve the performance described in this Certificate, installation of the products must be carried out by roofers experienced with this type of product.

9.4 Maintenance and repair

9.4.1 Ongoing satisfactory performance of the products in use requires that they are suitably maintained. The guidance provided by the Certificate holder was assessed by the BBA and found to be appropriate and adequate. The following requirements apply in order to satisfy the performance assessed in this Certificate.

9.4.2 As the products are fully or partially confined and have suitable durability, maintenance is not required.

9.4.3 Damaged lengths can be replaced without having to remove adjacent lengths.

10 Manufacture

10.1 The production processes for the products have been assessed, and provide assurance that the quality controls are satisfactory according to the following factors:

10.1.1 The manufacturer has provided documented information on the materials, processes, testing and control factors.

10.1.2 The quality control operated over batches of incoming materials has been assessed and deemed appropriate and adequate.

10.1.3 The quality control procedures and product testing to be undertaken have been assessed and deemed appropriate and adequate.

10.1.4 The process for management of non-conformities has been assessed and deemed appropriate and adequate.

10.1.5 An audit of each production location was undertaken, and it was confirmed that the production process was in accordance with the documented process, and that equipment has been properly tested and calibrated.

† 10.2 The BBA has undertaken to review 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.

11 Delivery and site handling

11.1 The Certificate holder stated that the products are distributed in packs of 10 units, each unit marked with the designated use and the BBA logo.

11.2 Delivery and site handling must be performed in accordance with the Certificate holder's instructions and this Certificate, including:

11.2.1 Packs must be stored flat or on end, on a smooth, clean, dry surface, under cover and protected from sunlight.

Supporting information in this Annex is relevant to the products but has not formed part of the material assessed for the Certificate.

Construction (Design and Management) Regulations 2015

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

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

Management Systems Certification for production

The management system of the manufacturer has been assessed and registered as meeting the requirements of BS EN ISO 9001 : 2015 and BS EN ISO 14001 : 2015 by ISOQAR (Certificates 10146-QMS-001 and 10146-EMS-001, respectively).

Bibliography

- BS 5534 : 2014 + A2 : 2018 *Slating and tiling for pitched roofs and vertical cladding — Code of practice*
- BS 8000-0 : 2014 + A1 : 2024 *Workmanship on construction sites — Introduction and general principles*
- BS 8000-6 : 2023 *Workmanship on construction sites — Slating and tiling of roofs and walls. Code of practice*
- BS 8747 : 2007 *Reinforced bitumen membranes (RSMs) for roofing — Guide to selection and specification*
- BS 2782 : Part 10 : Method 1001 : 1977 *Methods of testing plastics. Glass reinforced plastics. Measurement of hardness by means of a Barcol impressor*
- BS 2782 : Part 3 : Method 320E : 1976 *Methods of testing plastics — Mechanical properties — Tensile strength, elongation and elastic modulus*
- BS 2782 : Part 10 : Method 1005 : 1977 *Methods of testing plastics. Glass reinforced plastics. Determination of flexural properties. Three point method*
- BS EN ISO 9001 : 2015 *Quality management systems — Requirements*
- BS EN ISO 14001 : 2015 *Environmental management systems — Requirements with guidance for use*
- BS EN 13501-1 : 2018 *Fire classification of construction products and building elements — Classification using data from reaction to fire tests*
- EN 13501-5 : 2016 *Fire classification of construction products and building elements — Classification using data from external fire exposure to roof tests*
- CEN/TS 1187 : 2012 *Test methods for external fire exposure to roofs*
- MOAT 9 : 1973 *Directive for the Assessment of Products in Glass-Reinforced Polyester for use in Building.*
- MOAT 22 : 1988 *UEATc directives for the assessment of external insulation systems for walls (Expanded Polystyrene Insulation Faced with a Thin Rendering)*

Conditions of Certificate

Conditions

1 This Certificate:

- relates only to the product 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.

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.

3 This Certificate will be displayed on the BBA website, and the Certificate Holder is entitled to use the Certificate and Certificate logo, provided that the product 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.

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

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

6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product which is contained or referred to in this Certificate is the minimum required to be met when the product 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.

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