



Solar



Ventilation



Condensation  
Control



# Integrated, In-roof Solar Solutions

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A roofing underlay and ventilation product  
warranty for complete peace of mind

# Introduction

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As the use of integrated, in-roof solar photovoltaic (PV) panels on new build and refurbishment schemes continues to grow, the need for compatible pitched roofing membranes with appropriate high and low level ventilation is paramount. In light of this high demand, Glidevale Protect is well placed to offer a full package of options suitable for use with solar PV panels, fully backed by dedicated technical support and a 15 year product warranty for suitable ranges.

With solar PV included in the Standard Assessment Procedure (SAP) for the notional assessment, installing PV is widely acknowledged to be the most efficient way to achieve compliance to Part L 2021, helping to lower carbon emissions to meet the 31% reduction target, and lowering anticipated running costs which are calculated by SAP. This is why housebuilders are adopting PV as part of their house type designs, also ensuring a way to future proof against the planned requirements of the Future Homes Standard in 2025.

Housebuilders need an overall roofing structure that performs and Glidevale Protect offers a distinct collection for use with solar PV which is fully backed up by a 15 year product warranty,

giving peace of mind to all in the specification chain. NHBC Standards 2024 stipulates that when integrated, in-roof solar panels are installed, this categorises the roof covering as air impermeable, unless the panel manufacturer is able to demonstrate otherwise. This means that ventilation guidance as set out in BS 5250 for impermeable roof coverings will need to be applied. A compatible roofing underlay and ventilation strategy is crucial in order to prevent trapped moisture forming on the underside of the solar panel, thus reducing the risk of rotting timbers. With a complete range of underlay and ventilation options, supported by a dedicated technical support service, Glidevale Protect has you covered.





# Our products

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## Vapour permeable pitched roofing underlays

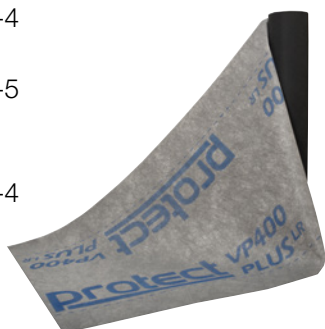
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Glidevale Protect manufactures a tried and trusted collection of vapour permeable, low resistance (type LR) roofing underlays, including air and vapour permeable membranes, designed for use on all cold and warm pitched roofs, including those where integrated in-roof solar PV panels are installed.

These high performance underlays allow water vapour to transfer through the material, thereby controlling the risk of condensation in the roof space. They also offer temporary protection against water ingress during construction and operate as the second line of defence on the roof when built. Where used with integrated, in-roof solar PV panels, this type of underlay should be installed with additional ventilation in accordance with BS 5250.

Independently certified by BM TRADA, a UKAS accredited third party body, our range of vapour permeable underlays provide high levels of wind uplift resistance without the need to tape laps, ensuring suitability across the UK and Ireland, in wind zones 1-5, in accordance with BS 5534.

- **Protect VP200**  
125gsm - wind zones 1-2
- **Protect VP300**  
130gsm - wind zones 1-3
- **Protect Zytec**  
158gsm - wind zones 1-4
- **Protect VP400 Plus LR**  
170gsm - wind zones 1-5
- **Protect Viking Air**  
Air & Vapour Permeable  
159gsm - wind zones 1-4



Protect VP400 Plus LR

## Vapour impermeable pitched roofing underlays

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A key part of Glidevale Protect's membrane offer is our range of vapour impermeable, or high resistance (type HR) roofing underlays, designed to prevent the migration of water vapour through the material. Suitable for use on all cold and warm pitched roofs, including those where integrated in-roof solar PV panels are installed, our HR underlays offer temporary protection against water ingress during construction and operate as the second line of defence on the roof when built.

Due to their impermeable, heavy-duty design with strong HR properties, there is no need for a ventilated counter batten space above the underlay when installing in-roof solar PV panels, thereby saving time and material cost as well as reducing the risk of condensation forming on the underside of the solar panels. To safeguard against the risk of condensation in the roof space, HR underlays must be installed with high and low level ventilation, in accordance with BS 5250.

With impermeable ranges also independently certified by BM TRADA, our membranes provide high levels of wind uplift resistance without the need to tape laps, ensuring suitability in wind zones 1-5 and installation across the UK and Ireland, in accordance with BS 5534.

- **Protect Wunderlay®**  
120gsm - wind zones 1-4
- **Protect A1**  
145gsm - wind zones 1-5
- **Protect A1 Solar**  
145gsm - wind zones 1-5
- **Protect A1T3 Plus**  
190gsm - wind zones 1-5



Protect A1T3 Plus

# Our warranty



## High and low level ventilation

As today's modern homes are now designed to be more airtight in construction, a dedicated ventilation strategy is required to ensure the correct balance of airflow within the roof space. Glidevale Protect's comprehensive range of high and low level ventilation products provide a discreet solution to control the risk of condensation and are used in conjunction with LR or HR membranes to achieve the correct ventilation when using in-roof solar PV panels. Complying with Building Regulations Approved Document C2 and the ventilation requirements set out in BS 5250, our products have been in use over many years, delivering top level performance.

Ranging from full aluminium ridge and hip vents that conform to BS 8612 and BS 5534 to slate and tile vents or even low level soffit or fascia vents, at Glidevale Protect we have it all.

Our collection includes:

### High level

- **Protect Fulmetal RediRoll**  
Ventilated dry-fix ridge and hip system
- **Protect Fulmetal UniRoll**  
Ventilated dry-fix ridge and hip system (with unions)

### Low level

- Soffit vents
- Over fascia vents
- Rafter vents

### High and low level

- G range slate and tile vents
- In-line<sup>®</sup> slate, tile and ridge vents
- Universal in-line<sup>®</sup> slate and tile vents
- Versa-Tile G5 cowl vents

## 15 year product warranty

Roof designs can be complex, and with the increasing popularity of in-roof solar PV panels, it's imperative for architects and housebuilders to specify the correct ventilation strategy to suit. Be assured that whatever project you are working on, Glidevale Protect's 40 years of longstanding history and manufacturing excellence in the construction industry means you can rely on us.

As well as our tried and trusted experience of delivering ventilation solutions, Glidevale Protect has designed a collection of products to complement the use of in-roof solar PV panels on new build and refurbishment projects. Glidevale Protect's 15 year product warranty for qualifying ranges gives the developer, end client and contractors complete assurance that our products are manufactured to the highest quality and are designed to last the lifetime of the roof.

In the unlikely event that one of our products highlighted opposite is found to be defective and has been fitted in accordance with our fixing instructions, upon verification from the Glidevale Protect Technical team and within a 15 year timeframe after installation, the product warranty will cover you in terms of product replacement. Terms and Conditions apply.\*



Protect Fulmetal UniRoll

Soffit vent

Over fascia vent

In-line tile vent

# What is our 15 year warranty?

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Our 15 year warranty is designed to enhance trust in Glidevale Protect's long-term product quality and suitability for use with projects where in-roof solar PV panels are installed. This protects the client in the event of a Glidevale Protect product failure which is proven to be caused by the manufactured materials. In this case, Glidevale Protect will replace materials on a like for like or nearest equivalent basis for a period of 15 years from the date of installation.



## How does it work?

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From design stage right through to completion, Glidevale Protect can provide technical guidance on which products to use on your roofing project to minimise the risk of condensation in the roof space. Upon completion and subsequent confirmation of an installation where our Protect roofing underlay, along with products listed below that deliver both high and low level ventilation have been used, Glidevale Protect can issue a warranty certificate for the project. This will be provided to the developer or social housing provider. This warranty would be effective for 15 years from the date the products are purchased and then installed via a contractor, merchant or direct from a developer.

Vapour permeable (type LR including air open) roofing underlays, and vapour impermeable (type HR) roofing underlays can be used in conjunction with in-roof solar PV panels, however different ventilation requirements will apply. Please contact our Technical team for guidance on a full roof ventilation strategy and house type take off, as well as to discuss specific product warranties that can be provided for underlays alongside the appropriate ventilation products.

## Which products are included?

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### Underlays

Protect vapour impermeable (type HR) roofing underlays and vapour permeable (type LR including air open) roofing underlays

### High level ventilation

Protect Fulmetal RediRoll - dry-fix ridge and hip system  
Protect Fulmetal UniRoll - dry-fix ridge and hip system (with unions)

### Low level ventilation

SV soffit vents, OFV over fascia vents, RV rafter vents

### High and low level ventilation

G range slate and tile vents, in-line slate, tile and ridge vents,  
Universal in-line slate and tile vents, Versa-Tile G5 vents

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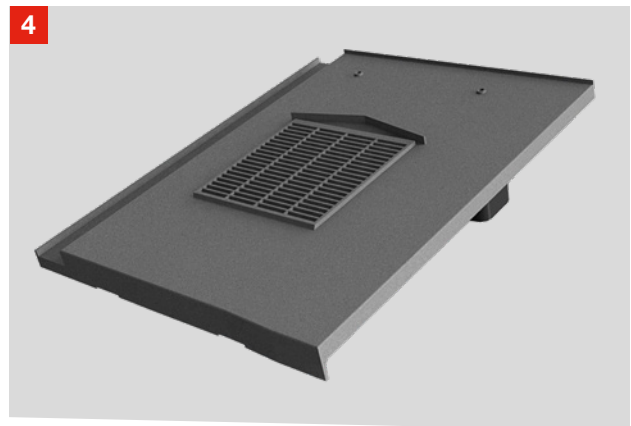
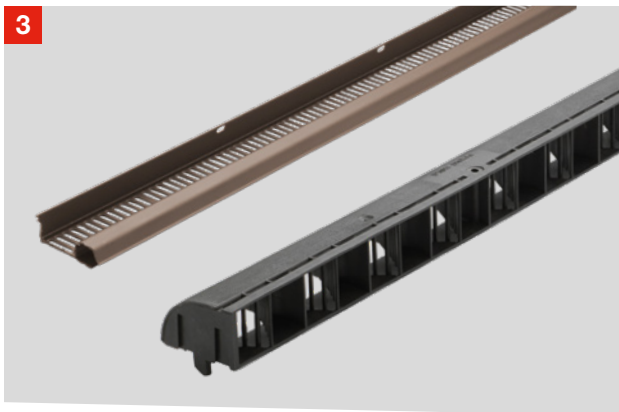
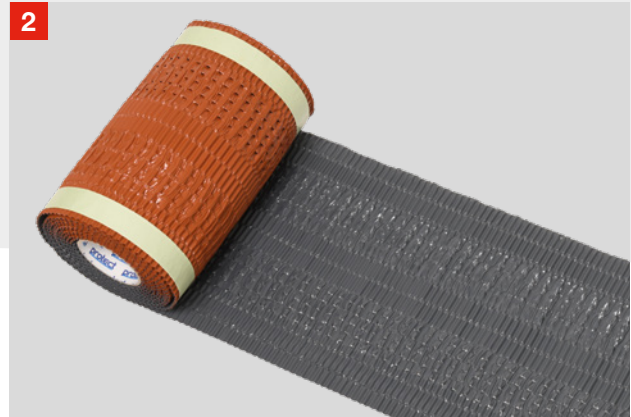
**In order to qualify for the product warranty, the roofing underlay along with high and low level ventilation products must be used together as part of a system package.**

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\*For full terms and conditions of the Glidevale Protect 15 year product warranty or for further technical guidance, please contact our Technical team at [technical@glidevaleprotect.com](mailto:technical@glidevaleprotect.com) or call us on +44 (0)161 905 5700.

# Warranty products

Protect vapour permeable or impermeable roofing underlays plus high and low level ventilation products.



## Product categories

1. Pitched roofing underlay
2. High level ventilation
3. Low level ventilation
4. High and low level ventilation

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Glidevale Protect

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**glidevale**  
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building  
product design

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