

This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration and for the regulations in the countries indicated

## Guardian Building Products – Guardian Roof

### Description of Product

Guardian Roof is a proprietary solid roof system to replace an existing translucent roof of a domestic conservatory or porch. This roof system achieves the u-values specified in Table 2 of Approved Document L1B. This registration applies to the roof only. This Registered Detail Certificate is designed to fast-track, not remove, the requirement to obtain Building Regulation Approval through LABC. This can only be demonstrated through a Completion Certificate issued following satisfactory inspections made as part of a valid Building Regulation application by Local Authority Building Control teams.



### Key Factors Assessed

- Mechanical Resistance & Stability
- Safety in case of Fire
- Health, Hygiene and Environmental
- Safety in Use
- Energy Economy and heat retention
- Durability serviceability and identification

### Validity

This certificate was first issued on 8<sup>th</sup> August 2012 and is valid until 8<sup>th</sup> August 2016.  
Issue Dated 13<sup>th</sup> August 2015

## Scope of Registration

Approved Document A: The existing structure will need to be assessed to ensure its adequacy for taking any additional loads and may include exploratory investigation of the existing construction.

Approved Document L1B states that the amount of glazing allowed to an extension is 25% of the floor area. In order for this limitation not to apply, there should be:

1. Effective thermal separation must be maintained between the dwelling and former conservatory or porch.
2. Any existing independent temperature and on/off controls to any heating system installed within the former conservatory or porch may be maintained.

Refer to Technical Guidance Note MG0010411 Application of Part L to Conservatories attached to existing dwellings

<http://www.labc.uk.com/Media/Default/library/Technical%20Guides/MG0010411%20Application%20of%20Part%20L%20to%20Conservatories%20attached%20to%20existing%20dwellings.pdf> and LABC guidance on solid roofs to conservatories and porches attached to dwellings [http://www.labc.uk.com/Media/Default/Public%20Documents/labc\\_4258%20TechG%20Conservatories.pdf](http://www.labc.uk.com/Media/Default/Public%20Documents/labc_4258%20TechG%20Conservatories.pdf) .

The roof specification designed to achieve 0.18 W/m<sup>2</sup>K comprises; Metrotile or Decratile lightweight roofing and breathable membrane fixed directly to 12mm exterior grade plywood fixed to the top of rafter profile with screw fixings @ 150c/s. The aluminium rafter profile is designed according to span and pitch. Profile centres will not exceed 600mm with a 25 x 50 timber batten fixed to the bottom the profile. 40mm Kingspan K7 foil faced phenolic insulation fitted between the rafters immediately on top of the battens. This leaves a 54mm ventilated cavity space under the plywood and between the rafters. 25mm Kingspan K8 tissue faced phenolic insulation fitted tightly between the battens. 60mm Kingspan K18 tissue faced phenolic insulation with a bonded gypsum board face fixed to the underside of the battens with stainless steel drywall screws and plaster scrim finish.

## Conditions of Certificate

Installation is undertaken by a Team Guardian Accredited Installer.

The Registered Detail relates to the reroofing of existing conservatory or porch roofs that satisfy the requirements of Schedule 2, Class 7 to the Building Regulations 2010 (as amended); i.e. It must be at ground level; it must not exceed 30 m<sup>2</sup> in floor area; the thermal separation between the building and the conservatory or porch must be maintained; and the building's heating system must not be extended into the conservatory or porch. If the thermal separation is removed then a separate Building Regulation Application needs to be submitted and the amount of glazing to the former conservatory or porch should be reduced to less than 25% of the floor area and the glazing should achieve a U-value 1.6W/m<sup>2</sup>..K (alternatively heat loss calculations may be used).

LABC consider that, the Guardian Roof, will meet the functional requirements of the Building Regulations (listed below) if the criteria detailed in this certificate are met;



## The Building Regulations 2010 (as amended) England & Wales

Regulation 7	Materials and workmanship
Note:	The products are acceptable.
AD A	Structure
Note:	Subject to limitations detailed below in Conditions section.
AD B	Fire Safety
Note:	The products can contribute to meeting this Requirement.
AD C	Site preparation and resistance to contaminants and moisture
Note:	The products can contribute to meeting this Requirement.
AD L1B	Conservation of fuel and power
Note:	The thermal insulation performance of this system should be considered in the context of the contribution made to the overall performance of the roof structure.



## The Building Regulations 2010 (as amended) England

None presently



## The Building Regulations 2010 (as amended) Wales

None presently



## The Building (Scotland) Regulations 2004 (as amended)

If you would like to discuss a specific use of the product in Scotland it will require an additional assessment under the Scottish Building Regulations and accordingly you should contact the LABSS STAS Administrator at [www.labss.org](http://www.labss.org)

## Non-Regulatory Information



### LABC Warranty

The use of the Guardian Roof has not been assessed to meet the requirements of the LABC Warranty Technical Manual. If you would like to discuss a specific use please make an enquiry to [technical.services@labcwarranty.co.uk](mailto:technical.services@labcwarranty.co.uk)

## Supporting Documentation

2010-374 sheets 1-63 (Guardian Edwardian Roof spans calculations)

2010-374 sheets 1-7 (Guardian rafter spans calculations)

2010-374 sheets 1-11 (Guardian ridge Spans calculations)

2010-374 sheets 1-32 (Guardian Victorian Roof spans calculations)

CCR0003-1 Thermal analysis of Guardian Roof

Guardian Warm Roof Drawing GWR 04 Rev B "Rafter, Verge, Gable & Hip" dated 17/10/13

Guardian Warm Roof Drawing GWR 03 Rev B "Ringbeam, Lean to Ridge & Ridge" dated 17/10/13

Hydro Drawing RB 4000 "Ringbeam fabrication" dated 23/10/13

Hydro Drawing RB 6500 "Ringbeam fabrication" dated 23/10/13

Specification Information supplied by Merthorne Design Engineering Dated 19/10/13 "Thermal Analysis of Guardian Roof – Hybrid Option 3a 60 PIR with 150 x12mm exterior plywood sarking board & counter battens"

## Contact Information

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