Supalite Roof Tiled Roof System Incorporating PIR & EPS Insulation

STROMA
SYSTEM APPROVAL
A PHENNA GROUP COMPANY

Certificate Number Stroma 14005

This is to certify that the

Supalite Roof Tiled Roof System Incorporating PIR & EPS Insulation

provided by

Supalite Tiled Roof Systems Ltd

Meets the technical requirements of the elements of the Building Regulations 2010 (as amended) specified in the attached schedule

Date of Issue
15th June 2025

Date of expiration
14th June 2026

Signed on behalf of Stroma Building Control Ltd

Simon Dovell
Director

Registered Office:
6 Silkwood Business Park, Fryer's Way,
Wakefield, West Yorkshire WF5 9TJ

System Approval Schedules

Certificate Number Stroma 14005

For

Supalite Tiled Roof System Ltd

180-181 Bradkirk Place

Preston

PR5 8AJ

Stroma Building Control

Certificate Number Stroma 14005 exp. 14/26

System Approval Schedules

Contents

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1. Summary

1.1 "Supalite" by Supalite Tiled Roof System Ltd is a pre-packaged tiled roof solution manufactured in factory conditions and shipped out to site for erection. The system is based around a structural insulated roof panel product supported from an existing conservatory and where necessary with additional structural support provided to the existing conservatory structure. This certificate is for a variant model where insulation in the roof is based upon the use of "PIR" and "EPS" insulation products together with a PIR insulated plasterboard.

1.2 The purpose of this assessment is to determine that the system meets the standards defined within certain relevant functional requirements of the Building Regulations 2010 (as amended) and as detailed in the table below. Note that this assessment is in respect of the roof system only and does not consider whether the overall conservatory extension is exempt from, or compliant with, the provisions of the regulations.

1.3 **Building Regulations 2010 Technical Requirements**

Requirement A1 Comment	**Loading** The system meets the requirement to safely sustain the relevant loads applied to it. The installer must satisfy themselves as to the adequacy of the existing conservatory structure
Requirement B4(2) Comment	**External fire spread (Roof only)** The system meets the requirement to restrict the spread of fire externally across its surface
Requirement C2 Comment	**Resistance to moisture** The system meets the requirement to resist precipitation, surface and interstitial condensation subject to the provision of a suitable gradient to the roof covering to facilitate discharge of surface water
Requirement L1 Comment	**Conservation of fuel and power** The system meets the requirement to limit heat loss through the roof construction.

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1.4 In support of the above and this process the manufacturer has provided the following documents for assessment and review

1. **Technical specification manual Edition 13.01.2014**
2. **Email specification incorporating PIR 21.07.2015**
3. **Email specification incorporating EPS 14.11.2017**
4. **Hygrothermal analysis of Supalite Roof v1.1 10/05/2022**
5. **U value calculation dated 24/05/2022 (0.15 U value)**

1.5 In addition a review of the manufacturing process, and an on-site review of the installation process has been carried out by Stroma Building Control ltd.

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2 Product Description

2.1 "Supalite" is a tiled roof solution comprising of a part prefabricated roof system designed to replace an existing translucent conservatory roof off an existing domestic conservatory structure

2.2 Each project is individually designed by the manufacturer.

2.3 The system comprises of the following main components

- A polypropylene moulded tiling system
- A plywood sheet sarking
- Aluminium box eaves, rafter, hip and ridge structural system
- Insulated using 100mm EPS between the rafters; 25mm PIR beneath the rafters; and 72.5mm insulated plasterboard

2.4 The system has been designed to be used in conjunction with the existing conservatory wall structure support where this is deemed suitable following the installer's survey of the existing conservatory structure.

2.5 The system can be used with a range of roof gradients from 12-45o subject to the use of an appropriate covering.

2.6 The system is designed to incorporate factory installed roof lights subject to specific roof light manufacturers details.

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3 Approval Statement

3.1 Upon review of the details submitted and having regard to the attainment of referenced technical standards the **"Supalite" tiled replacement roof system is hereby approved for compliance** with the referenced functional requirements as cited in Schedule 1 of the Building Regulations 2010 for residential use (purpose groups 1 (a), (b), (c) in Table D1 of Approved Document B: 2006) erected as a single storey extension constructed at ground level

3.2 When submitted in conjunction with a building regulation application to Stroma Building Control ltd for approval by plan appraisal and site inspection this certification is approved for use by

Supalite Tiled Roof Systems Ltd

and any installers associated with and approved by the manufacturer for the use of this product.

3.3 The technical standards referred to for the purpose of this assessment are as detailed in section 1.3 above.

3.4 Identification and use of the stroma building control logos
The granting of this System Approval does not include for explicit permission to use the **Stroma Building Control logo** for any marketing and technical documentation, and the use of the Stroma Building Control logo is ***strictly prohibited*** without prior written consent.

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4 Conditions of Use

4.1 The system as assessed by this process is suitable for use in single or multi occupancy dwelling houses. The details and information contained within this approval may be suitable for buildings in other purpose groups where appropriate, and upon further consideration and assessment by Stroma Building Control ltd.

4.2 Structural assessments of the existing conservatory structure including foundations, floor slab, wall, UPVC/ Timber framing, and the relevant parts of the structure of the main dwelling shall be site and project specific and undertaken by the installer's surveyor. These should demonstrate that all the requirements of the relevant Building Regulations and Eurocodes have been met including at least the following:

- The existing foundations, floor, wall and UPVC framing for the conservatory are all suitable for supporting the additional loads to be applied by the system
- The external fabric structure of the main dwelling is suitable for any additional fixings that may be required to support the "solid roof" system

Where any additional support is required to the existing structure for the new roof system this must be clearly communicated to Stroma Building Control ltd at the earliest opportunity.

4.3 These aspects shall be assessed for each use on site and any questions raised in respect of compliance with the building regulations shall be assessed by a suitably competent structural engineer experienced with the system

4.4 This system approval relates to the system as described in the above referenced technical specifications. It is subject to the same exclusions contained therein and all other components and working practices are subject to the requirements of the Building Regulations, manufacturers installation guides and associated standards.

4.5 And doors set at 25% of the floor area of an extension. These caveats include:

- That suitable thermal separation is provided between the conservatory and the main dwelling and
- The main dwelling heating system must not be extended into the conservatory

Where either of these caveats are to be varied as part of the work to replace the roof this must be communicated to Stroma Building Control ltd at the earliest opportunity and may require the client to provide an appropriate thermal analysis calculation to demonstrate compliance. Where required a quote for this service can be obtained from Stroma Building Control Energy team, contact details can be provided on request or obtained from www.stromabc.com

4.6 No cutting or alteration of the structural members on site are permitted without obtaining prior written approval from the manufacturer.

4.7 The system is designed to be erected within a short period of time. Suitable provision should be made for the protection of the system components on site prior to the erection process commencing. Construction should be continuous and preferably scheduled during periods of sustained dry weather through to the provision of the permanent roof covering as soon as is reasonably possible.

4.8 Where an installer proposes to use this certificate as evidence of compliance each extension will need to be appraised individually for compliance with the Building Regulations 2010 by Stroma Building Control ltd, based upon the guidance contained in the current Approved Documents. All installations should be notified

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to Stroma Building Control ltd a minimum of 10 days before work commences on site with the following minimum information

- Address of the property including postcode
- Name of the client/homeowner
- Name of the installer
- Approximate age of existing conservatory and frame type
- Existing conservatory roof type, ie glass/polycarbonate etc
- Proposed date of commencement and completion of work on site
- Proposed additional structural alterations to the existing conservatory
- Proposed additional structural alterations to the existing main dwelling
- Proposed alterations to the standard roof covering

4.9 Where an alternative roof covering is chosen by the client an assessment as to whether that cladding achieves a Class 0 (or European class B-s3, d2) surface spread of flame will be carried out on an individual basis. Stroma Building Control ltd should be notified at the earliest possible stage of any change to the roof cladding specification.

4.10 The system approval is limited to single storey buildings and as such the fire resistance test standards of Part B of the Building Regulations and BS 476: Parts 20, 21 and 22 (as appropriate) will not be applicable.

4.11 Where any alterations to the electrical system are to take place these must be suitably certificated by a registered competent electrician as compliant with the requirements of Part P and BS 7671. A copy of this certification must be provided to Stroma Building Control ltd prior to the issue of our final certification.

4.12 This system approval certificate is valid for a period of one year from the date of issue. This limitation is placed in order that the impact of new and changing relevant regulation can be assessed.

4.13 Note that this is a system approval of the tiled roof system only and additional site-specific information may be requested that is not encompassed by the detail contained in this approval.

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