

System Approval Certificate

Certificate Number jhai 14005

This is to certify that the "Supalite" tiled roof system
incorporating PIR insulation, provided by

SUPALITE TILE ROOF SYSTEMS LTD
Unit 4 Croft Street
Preston
Lancashire
PR1 8SU

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

Date of Issue
20th April 2015

Date of expiration
20th April 2017

Signed on behalf of jhai Ltd



Andrew Crooks
Director of Technical Services & Learning

Offices throughout the UK



Alternative format or larger text available

Registered Office, Whitecross Business Centre, Netherbury, Dorset, DT6 5NH
Company Reg No 3980572, VAT Reg No 730 3156 71



System Approval Schedules

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For

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System Approval Schedules



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1. Summary

- 1.1 "Supalite" by Supalite Tile 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 a "PIR" insulation product..
- 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) 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 the provisions of the regulations.

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 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
Requirement L1 Comment	Conservation of fuel and power The system meets the requirement to limit heat loss through the roof construction, providing an overall U value of 0.18W/m ² K

- 1.3 In support of the above the manufacturers have provided the following document for assessment and review

Supalite tiled roof system
Technical specification manual
Edition 13.01.2014
Email specification 21.07.2015

- 1.4 In addition an on-site review of the manufacturing process has been carried out by JHAI Ltd.

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 Supalite Tile Roof System Ltd
- 2.3 The system comprises of three main components
 - A plywood sheet supported, "steel tile" weatherproofing system
 - Aluminium box eaves, rafter, hip and ridge structural system
 - High performance PIR insulation with 50mm between the aluminium rafters, 25mm between battens and 50mm below the battens.
- 2.4 The system has been designed to be used in conjunction with its own structural support posts where these are deemed necessary following installers survey of the existing conservatory structure
- 2.5 The system can be designed with a range of roof slopes from 15-45°
- 2.6 The system can be designed to incorporate factory installed roof lights subject to specific roof light manufacturers details

3 Approval Statement

3.1 Upon review of the details submitted and having regard to the attainment of referenced technical standards **Supalite Tile Roof System Ltd** **“Supalite” 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 residential extension constructed at ground level

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

SUPALITE TILE ROOF SYSTEMS LTD
Unit 4 Croft Street
Preston
Lancashire
PR1 8SU

And any installers associated with and approved by Supalite Tile Roof System Ltd for the use of this product

3.3 The technical standards referred to for the purpose of this assessment are as follows:

Supalite tiled roof system
Technical Specification Manual
Edition 13.01.2014
Email specification 21.07.2015

3.4 **IDENTIFICATION AND USE OF THE JHAI LOGOS**
Correct identification of approved Building Systems is desirable in order that purchasers and funding providers understand the status of products presented to them.

Recipients are encouraged to make use of the **Jhai System Approval Logo** on marketing and technical documentation

4 Conditions of Use

- 4.1 The **Supalite tiled roof 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 JHAI
- 4.2 Structural assessments of the existing conservatory structure including foundations, floor slab, wall, UPVC 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 "supalite" tiled roof system
 - The external fabric structure of the main dwelling is suitable for any additional fixings that may be required to support the "supalite" tiled roof system

Where any additional support is required to the existing structure for the new roof system this must be clearly communicated to JHAI 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 "Supalite" system
- 4.4 This system approval relates to the "Supalite" tiled roof system as described in the above referenced technical specification manual. 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 Under the provisions of Schedule 2 of the Building Regulations 2010 (as amended) a conservatory addition to an existing building would in certain caveats be exempt from the limit of windows, roof windows and doors set at 25% of the floor area. These caveats included
- Suitable thermal separation between the conservatory and the main dwelling
 - 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 JHAI LTD at the earliest opportunity and may require an appropriate thermal analysis calculation to

be provided to demonstrate compliance. Where required a quote for this service can be obtained from JHAI Enerji+ team, contact details can be provided on request or from www.jhai.co.uk

- 4.6 No cutting or alteration of the structural members on site are permitted without obtaining written approval from **Supalite Tile Roof System Ltd**
- 4.7 The Supalite system is constructed in factory conditions and as such are designed to be erected within a short period of time. 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 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 JHAI based upon the guidance contained in the current Approved Documents. All installations should be notified to JHAI 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 structural alterations to the existing conservatory
 - Proposed alterations to standard roof covering
- 4.9 Where an alternative roof cladding 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. JHAI 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 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 Specifications for the roof coverings will be site specific and based upon Supalite Tile Roof Systems Ltd requirements in terms of roof slope and loadings. Tile manufacturers have minimum requirements with regard to suitable roof pitch which should be observed in line with the specific accreditation. As such, roof coverings other than the "Metroshingle" product have not been considered within the scope of this Approval
- 4.12 Where any alterations to the electrical system are to take place these must be suitable certificated by a registered competent electrician as compliant with the requirements of Part P and BS 7671. A copy of this certification should be provided to JHAI LTD

- 4.13 This system approval certificate is valid for a period **of two years** from the date of issue. This limitation is placed in order that the impact of new and changing relevant regulation can be assessed prior to re-issue
- 4.14 Note that this is a system approval of the "Supalite" tiled roof extension only and additional site specific information may be requested that is not encompassed by the detail contained in the approval.

Signed on behalf of jhai ltd.

A handwritten signature in black ink, appearing to read 'Andrew Crooks', with a long horizontal stroke extending to the right.

Andrew Crooks

Director of Technical Services & Learning