jhai limited

SYSTEM APPROVAL

jhai.co.uk

Certificate Number jhai 14033

This is to certify that the

Orangery Flat Roof system

provided by

Supalite 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 March 2019

Date of expiration
14th March 2020

Signed on behalf of jhai Ltd

Andrew Crooks
Chief Executive

All the approval you need

Company Reg No 3980572, VAT Reg No 165 3568 87
Registered office. 3 George Street, West Bay, Bridport, Dorset DT6 4EY

RICS cabe chartered association of building engineers BMTRADA BMTRADA BMTRADA UKAS

jhai limited

SYSTEM APPROVAL

jhai.co.uk

System Approval Schedules

Certificate Number jhai 14033

For

Supalite Roof Systems Ltd

180-181 Bradkirk Place

Preston

PR5 8AJ

All the approval you need

Company Reg No 3980572, VAT Reg No 165 3568 87
Registered office. 3 George Street, West Bay, Bridport, Dorset DT6 4EY

System Approval Schedules

Contents

1 Summary

2 Product Description

3 Approval Statement

4 Conditions of Use

jhai.co.uk

All the approval you need

1. Summary

1.1 "Orangery Flat Roof" by Supalite Roof System Ltd is a pre-packaged roof solution manufactured in factory conditions and shipped out to site for erection. The system is based around a structural insulated roof product supported from an existing conservatory and where necessary with additional structural support provided to the existing conservatory structure.

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.

jhai.co.uk

All the approval you need

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 subject to the roof meeting Class B roof(t4) where it is within 6m of a boundary
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 covering material, 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

1.4 In support of the above and this process Supalite Tiled Roof System Ltd have provided the following document for assessment and review

Technical specification manual Edition 13.01.2014
SIP panel fixing kit diagrams
CSC TEDDS structural calculations
Lantern assembly drawings
Supalite Orangery brochure
Email from Supalite dated 13.02.2019

1.5 In addition a review of the manufacturing process at the manufacturing facility, and an on-site review of the installation process has been carried out by jhai ltd.

Company Reg No 3980572, VAT Reg No 165 3568 87
Registered office. 3 George Street, West Bay, Bridport, Dorset DT6 4EY

2 Product Description

2.1 "Orangery Flat Roof" is a replacement 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 has been designed to be used in conjunction with the existing conservatory wall structure support where this is deemed suitable following installers survey of the existing conservatory structure

2.4 The system is designed to incorporate a glazed lantern roof to be supplied and installed by the end user.

3 Approval Statement

3.1 Upon review of the details submitted and having regard to the attainment of referenced technical standards the **"Orangery Flat Roof" 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) or (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 the certificate holder and any installers associated with and approved by them 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 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

jhai.co.uk

All the approval you need

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 jhai

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 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 system

4.4 This system approval relates to the above named 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 Under the provisions of Schedule 2 of the Building Regulations 2010 (as amended) a conservatory addition to an existing building would in certain circumstances be exempt from the normal limit of windows, roof windows 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 jhai 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 jhai Enerji+ team, contact details can be provided on request or obtained from www.jhai.co.uk

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

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 project 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 additional structural alterations to the existing conservatory
- Proposed additional structural alterations to the existing main dwelling
- Proposed alterations to the standard roof covering

Site specific issues that will need to be addressed by the building owner or contractor

4.9 The roof covering chosen by the client must be demonstrated as meeting compliance with Building Regulation requirements C2 and B4. It is the responsibility of the building owner and/or contractor to establish that these requirements are achieved. Where any part of the roof is within 6m of a property boundary the covering must achieve European fire classification Class B roof (t4).

4.10 The building owner and/or contractor must provide manufacturers details for the glazed lantern rooflight to allow for assessment of its compliance prior to its installation.

4.11 The junction of the flat roof and the existing dwelling should be detailed such as to provide compliance with Building Regulation requirement C2. The building owner

jhai.co.uk
All the approval you need

4.12 and/or the contractor are responsible for ensuring that the weatherproofing is detailed and installed to meet compliance with this requirement including the provision of a "cavity tray" within the existing cavity wall.

4.13 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 jhai ltd prior to the issue of our final certification.

4.14 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.

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

Company Reg No 3980572, VAT Reg No 165 3568 87
Registered office. 3 George Street, West Bay, Bridport, Dorset DT6 4EY