

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

Eurocell Equinox Solid Roof system

Description of Product

This is an assessment of the Eurocell Equinox Solid Roof System. A lightweight solid roof intended as an alternative to glazed roof systems on conservatories.

This Registered Solution applies to the roof only. It 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.

For Scotland purposes, such alteration works require a building warrant.



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 19th May 2016 and is valid until 19th October 2017

Issue Dated 11th September 2017

Scope of Registration

This is an assessment of a specified and accredited lightweight solid roof system for use on conservatories and sunrooms as an alternative to or a replacement of a traditional glazed roof system.

The roof system is designed to give a satisfactory level of thermal insulation, weather resistance and structural stability.

The roof system consists of a structural insulated panel with a breathable membrane and recycled polymer roof tiles.

The system can be used on new structures or existing structures subject to suitability.

The manufacturer shall exercise permanent control of production. All the elements, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures, including records of results. This production system will ensure the product is in conformity with the relevant approval. The manufacturer may only use the components stated in the technical documentation.

Refer to http://www.labc.co.uk/sites/default/files/labcpd0115_householder_conservatory_guide.pdf LABC guidance on solid roofs to conservatories and porches attached to dwellings http://www.labc.co.uk/sites/default/files/labcpd0115_techg_conservatories.pdf

The roof specification designed to achieve 0.18 W/m²K comprises; Metro tile roof nailed to 19 x 38mm treated tile battens spaced to suit lightweight tile panel or either Tapco composite roof tile or Slateskin GRP roof tile nailed directly to 12mm external ply boarding. Batten or Tapco/Slateskin tiles to be sat on BS EN 13859-1 : 2014 breathable felt and 12mm external ply boarding physically connected to aluminium profile. 100mm Celotex GA4000 insulation within depth of profile. 75 x 25mm counterbatten fixed to underside of profile with 50mm Celotex PL4000 high performance insulated plasterboard fixed beneath to battens and a skim finish.

For Scotland purposes:

The system comprises replacements and new build.

Light weight solid roof used as a replacement to an existing roof or as part of a new build structure. The roof specification is designed to achieve 0.15 W/m²K with 60mm Celotex PL4000 high performance insulation. The system comprises a structural ring beam, eaves beam, ridge beam and rafters with insulation fitted between. Treated sarking boards are fixed to roof structure, followed by a breathable membrane and tiling battens where appropriate in accordance with manufacturer's instructions. Finished externally with a lightweight composite tile/shingle.

Conditions of Certificate

Existing Structures should be checked for structural adequacy prior to the installation of the roof. Approved Document A - Section 1 Loading.

A suitable flashing design should be agreed on site where pipes pass through the roof construction. Approved Document C - Section 6 Roofs.

Any flues passing through the roof should be installed in accordance with BS EN 1856 - 1:2003 Document J - Section 1 provisions which apply generally to combustion installations.

Effective thermal separation between the conservatory and existing dwelling should be maintained. The system is restricted to sheltered areas (on timber/steel frame walls) and moderate areas (on masonry walls) where used without a cavity behind the system.

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 m² 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/m²..K (alternatively heat loss calculations may be used).

For Scotland purposes:

The Registered Detail relates to the reroofing of existing conservatory roofs but does not negate site specific issues relating to the affect the installation of a solid roof may have on any inner room accessed or covered by the re-roofed conservatory. These site-specific issues will be assessed under a building warrant by the relevant local authority.

The specifications and materials referred to have been assessed and approved in accordance with the Building (Scotland) Regulations 2004 and in accordance with the supporting guidance in the Domestic Technical Handbooks which came into force with effect from 1 October 2015.

Where reference is made on a plan or specification document to any Code of Practice, British or European Standard or manufacturer's instruction it shall be construed as a reference to such publication in the form in which it is in force at the date of this registered detail.

The materials specified shall not be changed without first gaining approval so to do. Failure to do so will invalidate the registered detail.

This registered detail should not be regarded as a formal approval under the building warrant process prescribed by the Building (Scotland) Act 2003 enacted from 1 May 2005.

This Registered Detail shall contribute to compliance with relevant Mandatory Standards specified under the Building (Scotland) Regulations 2004 as amended when read with the Limitations of Use Section to this Registered Detail.



LABC and LABSS consider that, Eurocell Equinox Solid Roof system 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 system is acceptable.
AD A	Structural Safety
Note:	The product is acceptable subject to limitations in the conditions section.
AD B	Fire Safety
Note:	The system is acceptable.
AD C	Site Preparation and Resistance to Contamination and Moisture
Note:	The system is acceptable subject to limitations in the conditions section.
AD J	Combustion appliances and fuel storage systems
Note:	The system is acceptable subject to limitations in the conditions section.
AD L1A	Conservation of Fuel & Power - New Dwellings
Note:	The system is acceptable.
AD L1B	Conservation of fuel & power - Existing Dwellings
Note:	The system is acceptable.
AD L2A	Conservation of fuel & power - New Buildings other than Dwellings
Note:	The system is acceptable.
AD L2B	Conservation of fuel & power - Existing Dwellings other than Dwellings
Note:	The system is acceptable.



The Building Regulations 2010 (as amended) England

AD B	Fire Safety
Note:	The system is acceptable.
AD L1A	Conservation of fuel & power – New Dwellings
Note:	The system is acceptable.



The Building Regulations 2010 (as amended) Wales

AD B	Fire Safety
Note:	The system is acceptable.
AD L1A	Conservation of fuel & power – New Dwellings
Note:	The system is acceptable.



The Building (Scotland) Regulations 2004 (as amended)

The Building (Scotland) Regulations 2004 (as amended) Technical Handbooks Domestic

Regulation 8	Durability, workmanship and fitness of materials
0.8.5:	Ways of establishing the fitness of materials
Regulation 9	Building Standards applicable to construction
Note:	Construction shall be carried out so that the work complies with the applicable requirements of schedule 5.
Mandatory	
Standard 1.0:	Structure
1.1.2	Loading
Note:	The system is acceptable, subject to a structural assessment in relation to the existing building and the provision of structural certification of the holistic building comprising the conservatory and new roof.
Mandatory	
Standard 2.5	Internal linings
2.5.1	Internal linings
2.C.1	Vulnerability of roof coverings
Note:	The system is acceptable provided it is constructed in accordance with the manufacturer's details.
Mandatory	
Standard 2.8	Spread from neighbouring buildings
2.8.1	Roof coverings
Note:	The system is acceptable provided it is constructed in accordance with the manufacturer's details.
Mandatory	
Standard 3.6	Surface water drainage
3.6.1	Surface water drainage from dwellings
Note:	The system is acceptable provided it is constructed in accordance with the manufacturer's details.
Mandatory	
Standard 3.10:	Precipitation
3.10.1:	General provisions
3.10.8	Roof constructions (pitched)
Note:	The system is acceptable provided it is constructed in accordance with the manufacturer's details and by an accredited contractor.

Mandatory

Standard 3.15:

Condensation

3.15.1

Condensation

3.15.3:

Control of condensation in roofs

3.15.5

Interstitial condensation

3.15.7

Roof constructions (pitched)

Note:

The system is acceptable provided it is constructed in accordance with the manufacturer's details and by an accredited contractor.

Mandatory

Standard 6.2

Building insulation envelope

6.2.11

Alterations to the insulation envelope

Note:

The system will achieve the required U-value provided it is constructed in accordance with the manufacturer's details and by an accredited contractor.

Non-Regulatory Information



LABC Warranty

The use of the Eurocell Equinox Solid Roof system 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

Supporting Documentation

Cromar Roof Tile underlays BBA Certificate 10/4748

Eurocell Roofline System BBA Certificate 01/3783

Tapco Slate Roofing BBA Certificate 08/4603

Metrotile Roofing System BBA Certificate 07/4470

Shingle Declaration of Performance No. DOP.3_-PA. EN.001

Dakea Tile Flashing Specification

Dakea Slate Flashing Specification

Dakea Good Roof Window Specification

Altaterra Dakea Declaration of Conformity

Ecotherm Technical Details

Celotex Technical Details

Cromar Technical Data Sheet

BRE wufi analysis report PR1083-8 Issue 1

Melin Consultants 3475 Condensation Risk Analysis

Melin Consultants 3553 Condensation Risk Analysis Scotland

Equinox Design Drawing

Marshall – Tufflex Rainwater and Drainage Systems Technical Details

Equinox Installation Guide

Equinox Marketing Brochures

Equinox FAQ's Brochure

Equinox Design Calculations

Lucideon Test Report: 164897 (QT42171/1/SL) Ref. 1 - Eurocell Slateskin GRP Panel Tested for Watertightness to

PD CEN/TR 15601:2012

Lucideon Test Report 153566 (QT36443/1/JB) Ref. 2 - Rain Penetration Testing of Eurocell Slateskin Equinox Roof System to

PD CEN/TR 15601:2012

Eurocell Slateskin GRP Sheet tile Product Guarantee

Exova Warrington BS 476 Part 3: 2004 Document Reference: 362216 Dated 18th April 2016 Issue No. 1

Eurocell Slateskin Trade Brochure

For Scotland purposes:

25-degree Cross Section –Thermal-Scottish Spec.pdf

2014_900_A_Eurocell Solid Roof Calcs_281015.pdf

3553 - Condensation Risk Analysis Scottish - Eurocell Equinox System.pdf

BRE Client Report - Eurocell conservatoryv2.pdf

Equinox_Installtion_Guide_May_2017.pdf

Metrotile Shingle.pdf

PDF- J362216-KH160414BS 476 Pt 3 Report 1.pdf

Shingle DOP.3_ PA.002.EN.pdf

slate_eta_cert.pdf

Tapco Slates.pdf

tapcoslate_dop.pdf

Contact Information

Eurocell PLC

Fairbrook House

Clover Nook Road

Alfreton

Derbyshire

DE55 4RF

Tel: 01773 842100

Email: conservatories@eurocell.co.uk

Web: www.eurocell.co.uk