

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

Ultraframe (UK) Ltd – LivinRoof

Description of Product

LivinROOF' manufactured by Ultraframe is the first roofing system designed to give you the flexibility to combine solid and glazed roofing seamlessly. The LivinROOF roofing system is constructed from insulated composite external panels and Rigid Polyurethane Foam insulation. The Structure of the roof utilises the Ultraframe Classic roof system to provide strength and rigidity.

In England and Wales, 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.

In Scotland, a Building Warrant is required in every case from the Local Authority Building Standards 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 1st December 2014 and is valid until 6th March 2022

Issue Dated 6th July 2021

Scope of Registration

The system is intended for use on domestic buildings and uses the Ultraframe aluminium "classic" chassis enhanced with the use of insulated steel stiffening members/connector. The roof is then supported by the existing conservatory frame – either frames with existing metal reinforcement or by improvements to the existing frame (subject to inspection/remedial work as well as inspection of existing foundations).

Fully checked by Structural engineers against all configurations and spans as set out in the System Overview and Design Guide which also gives details of spans, roof configurations & locations allowing for exposure and wind speeds.

Live load tests have also been carried out on the structure by Ultraframe to determine deflection of the roof panels.

The roof specification designed to achieve 0.18 W/m²K comprises;

A 0.9mm insulated steel stiffener and pvcu isolator fixed around existing aluminium roof profile and connected into new reinforced eaves and ridge steel frame. 25mm thick insulated roof panels are then fixed into the aluminium profile with new roof cappings. 90mm Celotex GA4090, 90mm Ballytherm BTR or 90mm Kingspan TP10, fitted tightly between the rafter profiles with 25mm Celotex FR5025, 25mm Ballytherm BTR or 25mm Kingspan TP10 and 12.5mm plasterboard and skim finish or 25mm Celotex PL4025 insulated plasterboard and skim finish all fixed at 450mm centres into steel stiffener.

Refer to LABC 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

For Scotland purposes:

This certificate covers the 'LivinRoof' system by Ultraframe (UK) Ltd. This certificate covers only the LivinRoof component parts and assemblies as described by the structural models and calculations for the roof styles defined in the supporting documents.

Six distinct roof styles are covered by this certificate;

- Lean-to roof,
- 3-bay Victorian roof,
- 5-bay Victorian roof,
- Georgian roof,
- Gable roof and
- 'P-shaped' roof.

Each roof style is defined more fully within the supporting documents.

The LivinRoof system is intended to be used as a replacement roof system for existing conservatory roofs. However, it can equally be used in new build construction. This certificate covers the system when used as a replacement roof.

This certificate does not cover the entire completed structure. Site specific factors and interactions with existing and supporting structure must be determined for every project. Structural stability must be independently assessed and verified for every

LABC and LABSS consider that, the LivinRoof, 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) at the date of current edition

In England and Wales: Regulation 7(1)	Materials and workmanship
In England: AD 7 (2018)	Materials and workmanship
In Wales: AD 7 (2020)	Materials and workmanship
Note:	The system is acceptable.
In England: AD A (2013)	Structure
In Wales: AD A (2010)	Structure
Note:	Subject to limitations detailed in Conditions section.
In England: AD B (2019)	Fire Safety
In Wales: AD B (2016)	Fire Safety
Note:	The system can contribute to meeting this Requirement.
In England: AD C (2013)	Site preparation and resistance to contaminants and moisture
In Wales: AD C (2010)	Site preparation and resistance to contaminants and moisture
Note:	The system can contribute to meeting this Requirement.
In England: AD L1B (2018)	Conservation of fuel and power in existing dwellings
In Wales: AD L1B (2016)	Conservation of fuel and power in existing dwellings
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 (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 1.1	Structure
1.1.0	Introduction
1.1.1	General
1.1.2	Loading
1.1.3	Design and construction
Note:	Subject to conditions. All site specific buildings erected in Scotland must be supported by confirmation of full structural stability taking account of the above standards and to take account of ground conditions and the stability of existing buildings.

Non-Regulatory Information



LABC Warranty

The system has not been assessed by LABC Warranty.

Supporting Documentation

Ultraframe LivinRoof Solid Roof System Overview Guide V9 May 2021

Ultraframe Maintenance Guide for Ultraframe roofs January 2021 V6

Ultraframe LivinRoof drawings;

09832, 10155, 10160, 10167, 10212, 10234 (sheets 1,2,3), 10239, 10382, 10317 (sheets 1,2,3,4), 10737 (sheets 1,2), 10792 (sheets 1,2,3).

Ultraframe LivinRoof calculations (dated 23.06.2015);

Lean-to roof 4.0m x 3.7m

3-Bay Victorian roof 4.8m x 4.9m

5-bay Victorian roof 4.5m x 4.6m

Georgian roof 4.5m x 4.5m

Gable roof 5m x 4.8m

'P-Shaped' roof 8.1m x 6m

ULTRAFRAME LIVINROOF SUBMISSION TO LABSS Climate loads re-submission - Wind loading and snow loading calculation

Ultraframe LivinRoof Solid Roof Conservatory Conversion Installation Guide V3 June 2015

Ultraframe LivinRoof Thermal Analysis, Oct 2014 Rev. A, by Melin Consultants

BRE Hygrothermal performance of Ultraframe Livinroof System Report Number: P104699-1010

Solid Roof System Overview Guide – V9 May 2021

Maintenance Guide for Ultraframe roofs – January 2021 V6

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