

Glass Systems

19713

Glass Systems Baglan

Specification

270 Series - Green Roof Specification (extract)

For Planning

Revision

P0 Issued to support discharge of Planning Condition 09 | LP | SH | MWR
23/01/2023

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Ss_45_40_47_09

Brown roof systems

Systems

Ss_30_40_30_72 Reinforced bitumen membrane warm roof covering systems

1. System performance: [Ss_30_40_30/240 Thermal design](#)
2. System manufacturer: [Bauder Ltd](#)
3. Contact details
 - 3.1. Address: 70 Landseer Road
Ipswich
Suffolk
IP3 0DH
 - 3.2. Telephone: [+44 \(0\)1473 257671](tel:+44(0)1473257671)
 - 3.3. Web: www.bauder.co.uk
 - 3.4. Email: info@bauder.co.uk
4. Product reference: [Bauder Total Warm Roof System - Torch Applied](#)
5. Preparation
 - 5.1. Horizontal work: Bauder Quick Dry Bitumen Primer.
 - 5.2. Skirtings and vertical work: As 'Horizontal work'.
6. Air and vapour control layer
 - 6.1. Type: Bauder VB4-Expal.
 - 6.2. Attachment: Torch applied.
7. Insulation
 - 7.1. Type: PIR FA-TE Flatboard.
 - 7.2. Fixing: In strict accordance with manufacturer's requirements.
8. Waterproof covering
 - 8.1. First layer
 - 8.1.1. Type: Bauder G4E.
 - 8.1.2. Attachment: Torch applied.
 - 8.2. Top layer
 - 8.2.1. Type: K5K, Charcoal Grey.
 - 8.2.2. Attachment: Torch applied.
9. Detail work
 - 9.1. Flashings: Bauder Aluminium Termination Bar.
 - 9.2. Skirtings and upstands: Bauder LiquiFIBRE Detailing Kit.

Ss_45_40_47_09 Brown roof systems

1. System performance: [Ac_85_70_40/210 Contractor design of living roofs](#); [Ac_85_70_40/250 Durability](#)
2. System manufacturer: [Bauder Ltd](#)
3. Contact details
 - 3.1. Address: 70 Landseer Road
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Suffolk
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- 3.2. Telephone: [+44 \(0\)1473 257671](tel:+44(0)1473257671)
- 3.3. Web: www.bauder.co.uk
- 3.4. Email: info@bauder.co.uk
4. Product reference: [BauderGREEN WB Native Wildflower Blanket Biodiverse Green Roof System, Pitched Roof](#)
5. Protection
 - 5.1. Protection layer: BauderGREEN SV 600 protection and moisture mat.
6. Moisture control
 - 6.1. Drainage layer: Bauder DSE40 or BauderGREEN WSP 75 / 50 reservoir board dependent on manufacture advice.
 - 6.2. Filter membrane: BauderGREEN FV 125 filter fleece.
7. Substrate: BauderGREEN SUB-BM UK biodiverse substrate.
8. Edge restraints: BauderGREEN AL 150 edge trim.
9. Waterproofing: [Ss_30_40_30_72 Reinforced bitumen membrane warm roof covering systems](#)
10. Vegetation: Bauder WB Native Wildflower Blanket System with Bauder Xero Flor Organic Fertilizer.
11. Maximum Slope: 15°.
12. Accessories: BauderGREEN KS ALU 250 inspection chamber. BauderGREEN KS AE 100 chamber height adaptor. Bauder Maintenance services. BauderGREEN AL 150 edge trim.
13. Execution: [Ac_85_70_40/605 Installation of living roofs generally](#); [Ac_85_70_40/671 Installing protection layers](#); [Ss_45_40_47/673 Installing moisture control layers](#); [Ss_45_40_47/680 Installing growing substrate](#); [Ss_45_40_47/710 Installing edge-retaining profile](#); [Ss_45_40_47/715 Installing inspection chambers](#)
14. System completion: [Ss_45_40_47/810 Instructions for future maintenance of living roofs](#)

System performance

Ac_85_70_40/210 Contractor design of living roofs

1. Scope: Complete the design of the green roof systems in accordance with GRO's 'Green roof code: code of best practice for the UK', and achieve the requirements outlined in the planning conditions notice.
2. Design criteria
 - 2.1. Functional: Bio-diverse and rainwater attenuation.
 - 2.2. Biological and physiological
 - 2.2.1. Growing conditions: Drought tolerance. Wind resistance.
 - 2.2.2. Ecological: Biodiversity.
 - 2.2.3. Vigour: Ease of establishment. Rate of growth.
3. Submittals: Manufacturers' literature. Method statements for installation. Planting layout drawings. Schedule of proposed seed mixes. Technical information.

Ac_85_70_40/250 Durability

1. System warranty: 25 years.

Ss_30_40_30/240 Thermal design

1. Requirement: Determine type and thickness of insulation to satisfy thermal performance.
2. Thermal transmittance (U-value) of roof (maximum): 0.15 W/m²·K.

Execution

Ac_85_70_40/605 Installation of living roofs generally

1. Standard: In accordance with [GRO Green roof code: code of best practice for the UK](#).
2. Preparation
 - 2.1. Previous coatings and contaminants: Remove, including dirt, dust, efflorescence, mould, oil, paint and plaster.
 - 2.2. Inspection: Visually inspect waterproof membrane. Report any damage.
3. Contamination: Do not use materials detrimental to healthy plant growth.
4. Loading
 - 4.1. Standard: To [BS EN 1991-1-6](#).
 - 4.2. Generally: Restrict site activities to ensure that design loads are not exceeded.
5. Outlets: Do not block. Install outlet grilles prior to installation of living roof.

Ac_85_70_40/671 Installing protection layers

1. Jointing
 - 1.1. Generally: Prevent gaps. Do not stretch materials.
 - 1.2. Fitting: As manufacturers recommendations.
 - 1.3. Overlaps (minimum): As manufacturers recommendations.
2. Upstands: As manufacturers recommendations.

Ss_45_40_47/673 Installing moisture control layers

1. Jointing
 - 1.1. Generally: Prevent gaps. Do not stretch materials.
 - 1.2. Fitting: As manufacturers recommendations.
 - 1.3. Overlaps (minimum): As manufacturers recommendations.
2. Upstands: As manufacturers recommendations.

Ss_45_40_47/680 Installing growing substrate

1. Handling conditions: Do not handle or install when wet or frozen.
2. Depth (minimum): As manufacturers recommendations.
3. Layer depth (maximum): As manufacturers recommendations.
4. Method: Gently firm each layer before spreading the next. Do not over-compact.

Ss_45_40_47/710 Installing edge-retaining profile

1. Cutting
 - 1.1. Generally: Neat, accurate and without spalling.
 - 1.2. Junctions: Vertical. Secure with proprietary connectors.
2. Position: True to line and level. Smooth, continuous lines.

Ss_45_40_47/715 Installing inspection chambers

1. Location of inspection chambers
 - 1.1. Generally: Install centrally over drain outlet.
 - 1.2. Orientation: Align parallel with adjacent features.

2. Bedding: Proprietary support base.
3. Backfill: Loose stone in accordance with green roof manufacturer's requirements.

System completion

Ss_45_40_47/810 Instructions for future maintenance of living roofs

1. Recommended procedures for maintenance
 - 1.1. Format: Printed.
 - 1.2. Timing: Before end of rectification period.
 - 1.3. Content: Growing medium declaration of analysis. Procedures for maintenance of the green roof. Record drawings showing location of planting and associated features. Schedule of ongoing maintenance problems experienced during the rectification period. Details of special procedures to be carried out.

Ω End of System



Specification created using NBS Chorus