## David Money Architects Unit Z 23 Alphabet Mews London SW9 0FN t 020 7587 3584 e studio@davidmoney.com

# Flat A, 11 Chesterford Gardens London NW3 7DD

This document aims to provide full details regarding the living roof in the area specified on the approved roof plan. This information is being submitted in advance of development commencement to satisfy Condition 4 of Planning Application ref: 2024/2104/P.



• Extension plan & Roof plan at a scale of 1:50\_ Blue Green roof setting out



Figure 1 \_proposed extension ground floor plan

Figure 2 \_proposed extension roof plan

• Sections at a scale of 1:50\_ Blue Green roof setting out



• Sections at a scale of 1:5 with manufacturers details demonstrating the construction and materials used





Figure 5\_ Blue Green roof\_Detail 01 • Sections at a scale of 1:5 with manufacturers details demonstrating the construction and materials used





w/drip edge once weathered

pieces are available

Figure 6\_ Blue Green roof\_Detail 02 Manufacture Blue roof flow calculation & green roof specification sheets



All results based on input data. Please check that input data has been correctly interpreted.

The Bauder Blue Flat Roof Rainwater Calculation Software will perform calculations in accordance with industry best practice for blue roof design based upon provided data relating to a specific building's dimensions geographical location and the flow rate performance of the selected Bauder rainwater outlet product. Whilst the information contained herein is to the best of our knowledge true and accurate we specifically exclude any liability for errors omissionsor otherwise arising therefrom.

NOTE: These calculations are valid for a zero fall roof with minimal variation in levels. Any significant variation will affect the volume of water stored and the roofs ability to attenuate extreme rain events. Typically variations in roof level should be less than 0 to +30mm with no back falls. The H-Max is measured from the mean roof level. Please ensure roof is sealed to a minimum level of H-Max + 35mm plus the required waterproofing upstand. Calculations meet the requirements of CIRIA guide RP1099

\*The roof loading refers only to the weight of the water on the roof

Overflow discharge requirement in accordance with BSEN12056-3:2000 for a category 1 storm events Total overflow discharge rate: 31.5m2x0.023l/s/m2 = 0.73l/s

## **Technical data sheet**

## **BauderGREEN WB wildflower blanket**

Product description	A British grown wildflower blanket produced on a coir mat. Fully GRO and compliant. Designed to be used with Bauder SUB-BM UK Substrate to establish a native wildflower green roof. (See BauderGREEN WB wildflow System Summary)
Colour	Varies
Article number	GB50215021

Characteristic	Unit	Value
Size	m	0.5 x 2
Coverage	m²	1
Nominal thickness	mm	28-40
Weight dry (EN 1848-1)	Kg/m²	14
Weight saturated	Kg/m²	≤ 30
Water storage capacity	L/m²	8 (approx)
Number of Sedum species	Number	36 wildflower species + 4 grass
pH Value	рH	6.5-7
Delivery Form		1m <sup>2</sup> rolls

nstallation guidance	
Product storage guidance	

Refer to	the	Bauder	Green	&	Blue	Roof	Ins

should be rolled out and watered regularly.

Pallets, woven polyester mesh

≥ 95% recycled material

Packaging material	
Handling/PPE	

Raging	material
ndling/P	PE

d	ling	J/P	۲E		

Shelf life

Pallet size

**Recycled Content** 

Safety Data Sheet

**Disposal guidance** Further information/documents

by visiting www.bauder.co.uk

requirement for a Safety Data Sheet.

30-40 m<sup>2</sup> per pallet

UNITED KINGDOM Bauder Ltd 70 Landseer Road, Ipswich, Suffolk IP3 0DH : +44 (0)1473 257671 - E: teo



#### V4 12/12/2024



species (≤10%

stallation Guide

Store the material outdoors on the delivery pallet if applicable. product should be stored out of direct sunlight covered with a suitable tarpaulin in wet weather. The product(s) should be installed as soon as possible. It will deteriorate rapidly if stored (see installation guide).

All persons using the product should be fully aware of the manual handling methods as roofing materials are heavy and can cause serious injury. When using/handling the product, installers should be provided with, and wear, suitable personal protective equipment.

This is a living product and should be installed ASAP. If the product cannot be installed straight away it

Waste of the product is not a hazardous substance and can be recycled.

Current documents such as DoC's, DoP's (where relevant), brochures, installation guides, etc. can be found

Safety Data Sheets are designed to provide the necessary information to recipients of substances and mixtures in the EU & UK. This product is classed as an article; therefore, this product does not have a

Bauder reserves the right to update this data set without prior notice and this document is backet reserves and the faint do restored. Always confirm the latest version is used for the adoption of this product, available from our website: bauder.co.uk/technical-centre. Intended use of this product should be verified with Bauder to ensure suitability and compliance with applicable guidance, regulations, legislations, project requirements, specifications, and installation techniques.

#### **Maintenance Procedures**

The following procedures should be carried out in order to ensure the roof is maintained in good condition and to protect the validity of the waterproofing system guarantee:

- Ensure that relevant health and safety procedures are followed when working at roof level, this includes making sure that safe access can be gained to the roof. It is advised that the contractor should always seek proof of current maintenance for any man-safe roof access systems prior to proceeding with the work on site.

- Ensure all dead vegetation is removed with a strimmer and provision made for the debris to be safely lowered to the ground and disposed of.

- Bauder recommends removing unwanted leaf litter that has fallen onto the roof surface from overhanging trees both in the spring and autumn, to ensure that this does not smother the vegetation beneath.

- Remove the lids of all inspection chambers, ensure that all rainwater outlets and downpipes are free from blockages and that water can flow freely away.

- Ensure that any protective metal flashings and termination bars remain securely fixed in place. Renew or repair as necessary.

- Examine all mastic sealant and mortar pointing for signs of degradation. Repair or replace as necessary.

- The building owner should keep a record of all inspections and maintenance carried out on the roof. Any signs of damage, contamination or degradation to the waterproofing should be reported to Bauder immediately, in order for arrangements to be made to carry out remedial work if necessary.

#### **General Maintenance**

Maintenance is necessary to keep biodiverse green roof systems in good condition. After installation, regular watering and minor upkeep will be needed until the planting has rooted into the growing medium and adapted to its location.

#### Plant Maintenance

The following activities should be carried out: In the late autumn the vegetation should be strimmed back to a height of 50-70mm and unwanted waste matter raked up and removed. To promote growth, an application of 80mg/m2 of slow release organic fertiliser to the vegetation may be required.

### Weeding

In a biodiverse green roof, with the exception of saplings which should always be removed, weeds are only considered as an aesthetic problem. If weeds become invasive, they can be manually removed.

## Irrigation

The need for irrigation in a biodiverse green roof system is determined through a client's visual requirements of the vegetation.

If it is intended that the roof should have colour and interest for the longest period through the growing season, then irrigation will significantly aid in achieving this. Should the requirement be only to deliver biodiversity, then the provision of sufficient watering points at roof level to allow for only occasional watering in periods of prolonged drought can be considered sufficient.



Figure 7\_ Blue Green roof\_ exploded axonometry