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Date: 21<sup>st</sup> July 2015

**Project: 1 Glenilla Road - Green Roof**  
**Ref: 5837/02/AC**

Dear German,

Thank you for your enquiry regarding the above project, please find attached our quotation for the supply and installation of a Blackdown extensive sedum roof planting systems.

Please note that this quotation:

1. is for a green roof system that complies with the GRO Code of Best Practice for green roofing.
2. assumes that the waterproofing material is guaranteed by the manufacturer against root penetration.
3. allows for a 20% settlement of the substrate post installation.
4. offers extra over costs for Blackdown unique portable, self-contained temporary irrigation system.
5. Includes for delivery of substrate in 25kg bags palletised.

I trust you find this quotation satisfactory and look forward to working with you on this project. If you have any questions regarding this quotation or need any further information to help you secure this project please do not hesitate to contact me or use the resources on our internet site [www.blackdown.co.uk](http://www.blackdown.co.uk).

Yours sincerely

**Adrian Culling**

Estimating & Technical  
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**Blackdown Horticultural Consultants Ltd,**  
Street Ash Nursery, Lisieux Way, Combe St Nicholas, Chard, Somerset, TA20 3HZ  
t. 01460 234582 f. 0845 0760267 e. [enquiries@blackdown.co.uk](mailto:enquiries@blackdown.co.uk) [www.blackdown.co.uk](http://www.blackdown.co.uk)

Company Registration No. 02992960 VAT Registration No. GB 395 9417 96

## Tender details

### Summary of tender information supplied

Roof number/area(s) to be planted/shingled:	Total: 26 m <sup>2</sup>
Roof description:	As per 1435_AR-03_06
Roof pitch:	Less than 8 degrees
Waterproofing system:	Single ply
Roof penetrations. Number and type:	As per 1435_AR-03_06
Roof outlets. Number and type:	As per 1435_AR-03_06
Installation date:	Unknown
Site access for material delivery:	Unknown
Tender requirements:	
Maintenance requirements:	None stated, our proposal attached.

### Summary of assumptions for logistics

Based on the information available at the time of quotation we estimate the following logistics requirements to facilitate delivery, offloaded and installation at roof level to complete the green roof works:

Activity	Requirements		
<b>Delivery</b> by rigid box vehicle and this tender assumes that this size of vehicle can both access the site and stand on site for offloading	Option 1, NatureMat	Total no of pallets to roof level (max weight 1.3t)	5 qty
	Total volume of materials to roof level		3 m <sup>3</sup>
<b>Handling</b> requirements for the offloading and lifting of these materials are not included in this quotation, see terms and conditions.	If by Telehandler (offload and lift capacity of 1.3t to 1000mm inboard of eaves edge)		0.5 day
	Option 1, NatureMat	If by Crane (offload and lift capacity of 1.3t to 1000mm inboard of eaves edge)	0 days

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## Guarantee and Maintenance

Blackdown provide a guarantee on all plant installations for a period to match the waterproofing and beyond if required. To qualify for a guarantee a maintenance contract must be taken out with Blackdown. Green Roofs, in common with ground level planting, requires maintenance to ensure that the original species selected establish and become a thriving self sustaining plant community. We strongly recommend that in the first 12 months post installation maintenance should consist of 2 visits followed by, at a minimum, 1 maintenance visit per year.

Typical procedures carried during maintenance include:

1. Removal of unwanted plant material i.e. invasive species (if required).
2. Correction of any localised plant system problems that may have occurred post installation.
3. Replacement of any failed plants exceeding 5% of total plants installed.
4. Application of nutrient source.
5. Removal of dead flower heads (if required).
6. Inspection of rainwater outlet chambers and surrounding vegetation breaks.
7. Replenishment of any areas of settled substrate.

Maintenance prices are included within the Bill of Quantity pages enclosed with this tender.

## Construction Design and Management Regulations

Under the Construction Design and Management Regulations (CDM) 2015, appropriate measures should be taken at both design and construction stages to ensure safe access and passage over the planted roof areas for maintenance personnel.

### Scaffolding

All scaffolding must be installed in line with current HSE publication 'The Working at Height Regulations'.

### Health & safety

It is strictly the contractor's responsibility to ensure that all works are executed in accordance with current health and safety legislation. Guidance must be taken from relevant and current HSE publications.

Safety scaffolding, the location of rubbish skips, access ladders etc. must be agreed with the client / principal contractor/ principal designer and be in accordance with current Health and Safety regulations.

The use of all Blackdown Greenroof materials must be in accordance with relevant Product Data Sheets & Safety Data Sheets.

Product Data Sheets & Safety Data Sheets are available for all relevant products supplied by Blackdown.

### Maintenance

All inspections/and or maintenance actions carried out on the greenroof must be in full compliance with the appropriate health and safety regulations, and particularly those specifically dealing with working at height.

Refer to current HSE publication 'The Working at Height Regulations' for further guidance.

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## Supply and Install Tender Prices: Blackdown green roof system



Reference	Description	Quantity	Units	Rate	Total
	<p><b>Q37: Green Roof:</b>  <u>Blackdown green roof system, extensive sedum type; as Blackdown NBS specification.</u></p> <p><b>Option 1; Sedum blanket green roof</b>            To supply and install a <b>Blackdown Naturemat®</b> green roof system consisting of: 25mm thick sedum NatureMat® plant layer pre-grown in the UK with a minimum 90% plant cover on delivery.</p> <p>Lightweight brick based growing medium (BHC Ext) finished settled depth of <b>60 mm</b> including an allowance for 20% settlement in accordance with the GRO Code of Best Practice.</p> <p>Single component protection/drainage/filter layer (BHC-25-920-Comp) across the entire roof area, upstand protection fleece (BHC300UPF) to upstand faces finished at substrate level; laid on finished waterproofing layer (measured elsewhere).</p> <p>Planted element saturated weight: 103 kg/sqm            *(+16kg per sqm if a 300mm wide shingled margin is included in the sqm)</p> <p>extra; <b>Edge detail</b> vegetation break 20-40mm rounded pebble infill 300mm wide installed to roof perimeter, penetrations and erosion susceptible areas</p>	26	m <sup>2</sup>	£112.34	£2,920.84
		Incl. above	Lm		

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design • grow • supply • install • maintain

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		<b>Unknown</b>	<b>Lm</b>	<b>£0.00</b>	<b>£0.00</b>
		<b>Unknown</b>	<b>Nr</b>	<b>£71.00</b>	<b>£0.00</b>

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## Terms and Conditions

These tender prices are based on the following terms and conditions:

1. This quotation is open for acceptance for 3 (three) months.
2. Our prices are based on the drawings supplied and on a final site measure.
3. Procurement of materials and programming of works will be on the basis of receipt of formal purchase order and clearance of account status.
4. At least 20 working days notice from receipt of formal purchase order and clearance of account status is required to ensure all materials are available for a specified on site date.
5. A minimum of five working days notice is required for any changes to installation dates or programme, where insufficient notification is given all costs will be chargeable.
6. This price is based upon installation works being of the duration and schedule stated herein. Blackdown reserves the right to amend its offer in the event that any of these parameters vary from the stipulated times and dates.
7. Roof areas where pitch exceeds 8° have cross-battening measures supplied and fitted by the waterproofing contractor.
8. A total roof area to be planted/shingled of **26 m<sup>2</sup>** should the actual area to be planted vary by more than ±10% Blackdown reserve the right to revalue tendered prices.
9. Planted element to be installed by Blackdown Greenroof during one period on site. If multiple installation periods are required this may affect the supplied prices.
10. Installation of the planted element only. This includes any required water retention, drainage, substrate, plant and mulch layers. Separate prices are supplied for loose laid outlet inspection chamber.
11. This price includes supply and installation of any shingled break areas at roof perimeter, roof penetrations and roof outlets (300mm band).
12. The vegetation layer will require irrigation immediately after installation and potentially for a period of time post installation, this will dependent upon season and local climatic conditions. Provision of any irrigation has not been allowed for within this quotation.
13. Blackdown will not accept any liability for plant loss or damage to materials caused by adverse weather conditions.
14. Adverse weather conditions may affect the availability of plant materials and installation. Blackdown will not accept any liability for delays caused through adverse weather conditions
15. Edge protection is in place throughout the installation.
16. A 110V power supply is available at roof level.
17. Waste removals (pallets, plastic off cuts, polypropylene big bags) are the responsibility of the main contractor
18. Any parking charges incurred during the installation will be charged through at cost.
19. A 1" supply of mains water is available within 25 metres of the building delivering a minimum of 58l per minute.
20. Where quotations have been provided from clients' plans, any inaccuracies or items omitted from the plan that cause unscheduled costs will be passed on to the client.
21. Includes for delivery of substrate in 25kg bags palletised.

## Payment terms

1. Our quotation is given for strict 30 day (subject to account status) payment from application for payment and VAT will be charged at the applicable rate currently 20.0%.
2. We reserve the right to charge interest on all overdue accounts, at the rate of 8% above the current base rate, in accordance with Barclays Bank published rates.
3. All materials remain the property of Blackdown Greenroof, until paid in full. We reserve the right to access and to remove materials (fixed or otherwise) to the value of the outstanding debt.
4. Day work is charged @ £25 per hour per man, plus 15% on materials and additional costs.
5. Rates are fixed for 3 (three) months.

## Limits of Liability

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1. Blackdown's liability under the contract cannot exceed the total value of this quotation or the subsequent order related to it.

End of document.

Please contact sender for any further technical or contractual information.

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