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The UK's leading independent green roof specialist

Date: **2nd October 2017**

Estimate Code:
Quote Prepared By:

SGSO71247
David Hunt

Project Name: **Bramlings Ham Lane**
Project Location: **West Sussex, PO10 8XT**
Company: **Halcyon Homes Ltd**

Dear Karl,

Thank you for your enquiry for the above stated project, we now have pleasure in submitting our estimate for the:
SUPPLY & DELIVERY of a:

Sedum Blanket System

Sky Garden

We offer comprehensive installation, training and after care packages which reinforce our commitment to quality, sustainability and living roof innovation.

Sky garden has more than 20 years experience in the marketplace including bio-diverse habitat creation, ecological consultancy, innovation, contract installation and logistics. The in house R&D department ensures cutting edge product development and innovation that includes:

- * Versatile solutions to any 'green' roofing project.
- * Pre green and bespoke UK provenance wildflower blankets
- * Pre grown UK sedum blankets
- * Regional production and supply centre
- * Modular systems, exclusive pocket Habitat (www.pockethabitat.co.uk)
- * Bespoke training and education centre
- * Aftercare, irrigation and landscape departments

We trust this estimate meets with your approval and fulfils your requirements, however, should you require any further information, please do not hesitate to contact the undersigned or the sales team at the Head Office in Cheltenham on 01242 620905.

With kind regards

David Hunt

ESTIMATE

This estimate is solely based and constructed on the information received and detailed out within this quotation document.

SUPPLY & DELIVERY of a: Sedum Blanket System

Total Roof Area comprising of:

		170 Sqm	
Living Roof System		170 sqm	Included
River Stone Edging	-	width (mm)	- 1m
			Included

Material	Type	Quantity	Approx Nr of Pallets
Surface Finish	m2	170.00	5
Substrate/Soils	m3	9.00	9
Filter Fleece	m2	170.00	0
Drainage and Retention Layer	m2	170.00	2
Protection fleece	m2	170.00	0
Riverstone Edging	25kg bags	0.00	0
	Artic	1	16

Total number of Deliveries Included within this quotation on Articulated/Flatbed (as stated), any further deliveries to those stated will incur additional charges:

SUPPLY & DELIVERY	£28.81	PER SQM	£4,897.70
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EXTRA OVER ITEMS (not included within quotation as stated above)

River Stone Edging; 20-40mm washed stone, 300mm wide & 85mm deep	On request
Aluminium Edge Detail; loose laid to exposed edges 100mm H x 75mm L	£15/LM
Supervisor - Optional with Supply Only contracts to oversee the installation of the works by others to ensure system is installed within guidelines	£350 PER DAY
Inspection Chambers for Rain Water Outlets, 360mm W x 360mm L x 100mm H	On request
Temporary Irrigation System; incorporating pipe work (from roof top source providing minimum of 3bar pressure and a flow rate of 60L/min), sprinkler heads, solenoids, splitting stations (if required), connectors, pressure outlet sensor and controller	On request
To keep Temp Irrigation System; description as detailed for temp irrigation system	On request
Maintenance; incorporating inspection visit, remedial visit, irrigation check, outlet inspection, plant inspection and remedial work, feeding and weeding (in accordance with warranty requirements) for a 12 month period from PC and as long as suitable roof protection is provided	
Nesting Bird Prevention: It is the responsibility of the client to advise Sky Garden of any issues regards large populations of nesting birds in the areas of the project being quoted, should there be an issue with nesting birds in the area, then Sky Garden can offer solutions which will then be included within the quote as an additional item"	On request
Inverted Roof Insulation - Installation of free issue materials - max 2 layers only (excluding TAPERED systems)	On request
Slabbing 450mm x 450mm	On request
Slabbing 600mm x 600mm	On request

The terms and conditions of this quotation are designed specifically to cover the supply and install of green roofs and related products and are not subject to variation under any circumstances unless expressly agreed.

In the event that a Purchase Order is placed in acceptance of this quotation then the terms and conditions stated herein will take precedence over the terms and conditions of said Purchase Order unless any variation thereto is expressly agreed in writing by a Director.

The terms and conditions stated in this quotation will not be varied or deemed to be varied in any circumstance without the express agreement of a Director of Sky garden Ltd and confirmed as such in writing.

ESTIMATE SPECIFICATION

Layer	Depth(mm)	Weight (kg)	Description	Responsible parties
Waterproofing Layer (if known):	Unknown			SUPPLIED & INSTALLED BY OTHERS
Surface Finish:	30	20	Sedum blanket: 70-90% cover, pre-grown 1.1m x 2m 8-12 species	SUPPLY ONLY BY SKY GARDEN
Substrate:	50	62	Extensive Sedum Substrate comprising: blended virgin recycled crushed brick 1-50mm, light-weight recycled aggregates and organic recycled green-waste compost.	SUPPLY ONLY BY SKY GARDEN
Filter Fleece:	2	0	2mm Fine grade geo-synthetic filter fleece bonded to drainage	SUPPLY ONLY BY SKY GARDEN
Drainage and Retention Layer:	20	8	Rigid (HDPE) drainage board (20mm)	SUPPLY ONLY BY SKY GARDEN
Protection Fleece:	3	0	300g/m2 geo-synthetic protection fleece loose laid	SUPPLY ONLY BY SKY GARDEN
River Stone Edging:	0	To be supplied and installed by others		SUPPLY ONLY BY SKY GARDEN
Metal Trim to roof edges (if required):		0		SUPPLIED & INSTALLED BY SKY GARDEN IF REQUIRED
Total System Depth:		105 mm		
Total System Weight:		91 kg/m ² (approx)		

GENERAL TENDER INFORMATION:

- * The estimate is based on information submitted by the contractor as detailed within the Project Measure / Details section.
- * Our estimate includes for the system components as listed within the specification section detailed above.
- * We have assumed access to site is suitable for delivery by articulated lorry, if not then it is the contractors responsibility to inform Sky-Garden of alternative delivery requirements.
- * We assume that our operatives will have clear and unrestricted access and be able to complete all works within one continuous visit.
- * We assume that the roof(s) have a nominal pitch (less than 5 degrees) that require no additions to a standard flat roof system.
- * All prices stated within this quotation exclude VAT and will therefore be added at the standard rate.
- * This quotation is valid for three months from the date of quotation. Sky garden reserve the right to renegotiate agreed prices every three months, unless agreed otherwise in writing.
- * Our quotation does not include for any edge protection, it is assumed that on commencement of site works all necessary scaffold and/or edge protection is in place and provided by others to enable the installation of our works in a safe manner.
- * Our quotation does not include for a bespoke design.
- * Our quotation excludes either supply only or supply and installation of loose laid metal edging unless otherwise stated - Please see Extra Over items for Sky- Garden rates if this element is required.
- * Our quotation excludes irrigation and maintenance unless otherwise stated - please see literature included within this quotation on Maintenance & Irrigation and the Extra Over rates Sky-Garden offer
- * **Our quotation is based on our materials being lifted and dropped to ALL relevant work areas by Crane (supplied/operated by the Contractor). Should the method of lifting differ i.e hoisting/manual distribution etc then Sky Garden reserve the right to renegotiate the rates.**
- * **The unloading of material deliveries to site and the distribution of the materials at ground level are excluded from our quotation and deemed to be the responsibility of the Contractor.**
- * We have not included for any retention battens mechanically fixed to the waterproofed roof which are strongly recommended in order to stabilise the green roof build up on pitched roofs above 10 degrees, unless otherwise stated within this quotation.
- * Sky-Garden standard terms and conditions attached with this quotation or alternatively found on the website www.sky-garden.co.uk.

PROJECT MEASURE / DETAILS

1	Bills of Quantities	No
2	Re-measurable on completion of works	Yes
3	Specification Reference	No
4	Drawing Reference	No
5	Site Inspection	No
6	Measure for pricing	No

SCHEDULE OF ATTENDANCES

1	General Welfare & Toilet Facilities & Drying Room	BY CONTRACTOR
2	<i>Personal Protective Equipment (PPE) - unless specialist equipment required in which by Contractor</i>	BY SKY GARDEN LTD / CONTRACTOR
3	Set out grid lines and datums provided	BY CONTRACTOR
4	Provision of material storage space on site	BY CONTRACTOR
5	Unloading of materials from delivered transportation on arrival	BY CONTRACTOR
6	Distribution of materials to designated site storage space	BY CONTRACTOR
7	Distribution of materials from delivery and/or site storage area to ALL trade working	BY CONTRACTOR
8	Provision of ALL necessary scaffold/edge protection to roof areas	BY CONTRACTOR
9	Provision of any mechanical lifting equipment i.e craneage/hoist/telehandler to distribute trade materials to work area including horizontal movements	BY CONTRACTOR
10	General site lighting	BY CONTRACTOR
11	<i>Working 'TASK' lighting</i>	BY SKY GARDEN LTD
12	Provision of Telehandler/Forklift including Driver for movement of trades materials	BY CONTRACTOR
13	Power for hand tools only 110v (leads only by SKY GARDEN LTD)	BY CONTRACTOR
14	Water Supply Point at Roof Level (Hoses only by SKY GARDEN LTD)	BY CONTRACTOR
15	<i>Protection of trade works during work progress</i>	CONTRACTOR / SKY GARDEN LTD /
16	Protection of trade works following installation until PC	BY CONTRACTOR
17	<i>Removal of trade debris/waste/packaging to site skips</i>	BY SKY GARDEN LTD
18	Supply of waste 'Skips'	BY CONTRACTOR
19	Provide a safe means of access to roof level and safe working conditions during trade works installation	BY CONTRACTOR
20	Provision for Desk Space within Office Accommodation	BY CONTRACTOR

MAINTENANCE & IRRIGATION

Maintenance

Strongly recommend to maintain roof quality, assess drainage performance, minimise invasive weeds and provide feedback on remedial requirements. Sky-Garden offer a range of remedial services, none cover watering or unforeseen damage to plants or systems and all offer a range of visit and assessment options to suit the needs of the roof and client.

Standard Package of maintenance procedures:

- * Remedial visit to assess establishment and development of system
- * To correct post installation system problems
- * To fertilise the system annually
- * To maintain species diversity and remove unwanted or invasive specimens
- * To inspect outlets and irrigation systems and report on requirements
- * To generate an aftercare report of activities recommended outside of maintenance agreement

Irrigation

Irrigation is required immediately post installation. We strongly recommend a temporary irrigation system is used as part of the maintenance program during the establishment of the system. This particularly relevant between the 1st of May and the 31st of September.

The system will require roof top pressure of 3 bar and a flow of 60L/min.

The system comprises of sprinklers calculated to cover the area of the green roof (1 every 75 sqm approx). Surface lines to the sprinklers, pressure compensating and non blocking, solenoid station for irrigation splitting, all feed pipes to source, all connectors and controller for source.

This type of system will be put on the roof and the automated control set and reviewed every maintenance visit or under the terms of O&M. The system will or should be taken from the roof by late November and stored in a frost free location. The system will be replaced on the roof by either the maintenance team or client in late March/April. Sprinkler points will be marked. This system will be drained and removed otherwise cold weather and frost will damage the feed lines and sprinkler heads.



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The UK's leading independent green roof specialist

TERMS & CONDITIONS

Our acceptance of your order in response to our estimate will be made subject to our standard terms and conditions as per below (**Full terms and**

Your **ATTENTION** is drawn to the below:

INSTALLATION - SECTION 1

Prices:-

- a) Do not include VAT
- b) Do not include watering systems (unless specified). Between 1st May and 30th September we recommend that temporary watering systems are used post installation. On roofs over 7.5 degree pitch we recommend permanent irrigation system are installed.
- c) Do not include craneage, hoisting, lifting equipment or site protection. If this is required please request allowance for this on the estimate.
- d) Do not include waterproofing, supplying and fitting edge, drainage or other roofing details.
- e) Do not include for Main Contractors Discounts unless shown.
- f) Are subject to a site visit to check conditions, sizes, access and all related issues.
- g) Are subject to us:
 - 1) Being given clear, free and unfettered access for the duration of the contract.
 - 2) Attending site during one period only.
 - 3) Extra time on site being charged out using the day works specified herein.
 - 4) Having a 110v electric supply at roof level.
 - 5) Having a 1" water main supply capable of delivering 60L per minute at roof height.

And are subject to:-

- h) You agree to pay any increases in price attributable to changes in the rates of such taxes or duties or to the introduction of new taxes or duties, applicable to Products at time of delivery.
- i) All estimates are valid for 3 months from the date of quoting unless expressly agreed otherwise in writing.
- j) We reserve the right to renegotiate agreed prices every 3 months from signing the contract unless work has commenced and/or expressly agreed otherwise in writing.
- k) Minimum 6 weeks project lead in time, confirmation of availability is required (from Projects Manager).
- l) Payment will be required with the order unless you are an account holder.
- m) Standard payment terms for account holders are net monthly (unless expressly agreed otherwise in writing).
- n) No variation or extra work will be undertaken unless an estimate is agreed and written confirmation is received.
- o) Our estimate is based upon the use of standard systems and components and does not incorporate bespoke design.
- p) This estimate is based on unobstructed access and does not include for craneage which may be necessary for the installation of the materials. We will assess this need on a site specific basis. If a crane is required please ask for us to include this in our figures.

MAINTENANCE - SECTION 2

Under no circumstances should there be any access to roof for other trades after completion. There will be a charge for any remedial work necessary. Maintenance/Care schedules should be carefully read and adhered to. Following the installation of a Living Roof system, we recommend a maintenance schedule should be implemented to ensure healthy and vigorous growth. This will help the longevity of the vegetation, help to keep the system looking healthy and will prevent any drainage problems that could occur as a result of leaf build up etc.

Sky-Garden offers a maintenance care package for checking and maintaining our green roof systems. Our package includes bi-annual visits, in the spring or early summer and autumn. All visits are carried out by our own registered living roof installation teams who are experienced with our systems and understand the key elements of long-term green roof success. Any fertiliser and/or weed killer applications are included as part of the package and will be undertaken by certified employees only. All applications come from a range of products developed specifically for green roof systems and are natural organic or naturally derived. Weed killers are low impact and weed specific.

The details of our standard package are as follows:

* **Visit(s) in spring or summer to include:** Inspection, Fertilisation, Spot weed and spray where necessary, Re seeding where necessary, Clearance of debris and foliage from accessible drains and outlets

* **Visit(s) in autumn to include:** Inspection, Weeding and dead flower head clearance, Check for damage to moved/vandalised materials

Estimates for maintenance will be provided upon request

A maintenance contract can be taken out at any time, however we reserve the right to amend our maintenance quote if the contract is not incepted within 3 months of the job being completed.

All products should be installed strictly following our installation guidelines. If there are any deviations from our guidelines we can accept no responsibility for the success or function of the product/systems.

ESTIMATE CONDITIONS - SECTION 3

Delivery and supply conditions

- a) Any changes to delivery time or address must be notified a minimum of 72 hours before delivery and may result in additional charges in accordance with our standard terms and conditions.
- b) Deliveries will be made on articulated lorries unless otherwise specified - please ensure your site access is suitable.
- c) If sequential deliveries are necessary, this will affect the prices quoted.
- d) One hour offload time is allowed for vehicle deliveries. Unloading or standing time in excess of one hour will be charged at £100 per hour.
- e) Chains, slings, hooks, pallet forks and related equipment needs to be provided by the contractor.
- f) Parking charges incurred will be charged through at cost.

Site conditions during installation

- a) Free, clear and unfettered access to craneage/lifting equipment and suitably qualified staff will be required at the commencement and during the course of the contract. Any down time incurred as a result of this clause not being adhered to will result in mobilization costs being applied at a rate of £500 per day with the following additional
- b) Our mobilisation and demobilisation rates will be £500 per day. In addition the following day work rates apply where appropriate:-
 - 1) Manager £50.00 per hour
 - 2) Supervisor £45.00 per hour
 - 3) Operatives £35.00 per hour
 - 4) Plant and Materials at our standard rate
- c) Clear access to work area including plant access.
- d) **Scaffold/edge protection and access must be provided by others. If this is not available please request and we will amend our estimate accordingly. Remedial work will not be carried out if edge protection or man safe systems are not available.**
- e) Storage space will be required for our products prior to and during site work. This space must be within 200mtr of work area.
- f) No other trades to work simultaneously on the installation site during green roof installation. We take no responsibility for subsequent damage caused and will charge appropriate rates to rectify.
- g) Welfare facilities to be provided by others.
- h) No replacement of vegetation or materials damaged by external factors including but not restricted to:-
 - 1) Other trades working on site,
 - 2) Vandalism, weather and climate damage,
 - 3) Pedestrian or vehicular trafficking,
 - 4) Contaminates,
 - 5) **Failure to maintain, irrigate or otherwise protect planting.**

Irrigation

- a) if agreed in writing Sky-Garden will water the sedum on completion of the installation provided there is a water supply at roof height giving 60ltr/m flow at 3 bar pressure. All further watering is by others unless agreed in writing.
- b) If temporary irrigation system is to be installed then a 60 ltr/m flow at 3 bar pressure water supply will be required at roof level (water supply to be live at commencement and all through installation period).
- c) A temporary irrigation system will be supplied to cover an agreed period. At all times it remains the property of Sky Garden Green Roofs unless agreed in writing, and will be removed at the end of the agreed period. Sky Garden accepts no responsibility for the daily operation of the system.
- d) **It is highly recommended that all roofs over a 7.5 degree pitch have a permanent irrigation system fitted.**

Where we are contracted to supply a Technical Advisor we will provide the following: The optimal installation procedures for the green roof material inc sequencing, Handling procedures, Watering/Irrigation, Maintenance requirements.

What we will not do (unless agreed in writing), Project manage the job, Order Materials, Control deliveries, Supervise Staff, Ensure H&S is adequate, Carry out any installation work, Provide tools or equipment and measurements.

MEANS OF DELIVERY AND STORAGE - SECTION 4

- a) Where delivery is taken at your premises or sites you will provide prompt and safe access for delivery vehicles between the Public Highway and the actual point of delivery and shall observe all applicable Health and Safety Regulations.
 - b) You will take delivery of the full quantity of our products and shall thereafter provide sufficient, safe and suitable storage for them. In particular live products should in all cases be unloaded immediately upon arrival, thereafter laid separately outside on a flat surface and watered regularly if dry and be installed within one week of delivery.
 - c) Should any other persons effect the removal or lifting of the Sky-Garden Green Roof system (or parts therefore) to allow inspection of the underlying membrane or to execute any following trades or for any other reason without our involvement, then Sky-Garden will not accept any claims for damage or any other repair works whatsoever.
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