

GUIDELINES

SKY GARDEN INSTALLATION GUIDELINES

Version 1.0

INSTALLATION GUIDELINES

The guidelines provided give a general installation procedure for Sky Garden green roofs. Please refer to your project brief for a project-by-project build-up.

STEP 1 - CHECK WORKING AREA & WATERPROOFING



Ensure the roof is complete and watertight. Check that roof is a safe working environment i.e. edge protection/scaffold or man safe system is in place. Have lifting equipment ready to lift materials to the roof. Ensure all other trades have finished working on roof before starting. Double check with site that the roof has been leak tested prior to our works and notify the contracts manager immediately if you spot any potential leaks.

Please ensure that when the delivery arrives, you make sure the quantities delivered match the delivery schedule issued as part of the project brief. If you are short, tell the contracts manager immediately – do not wait until the end of the project.



STEP 2 – PROTECTION FLEECE, ALUMINIUM EDGE & RIVERSTONE INSTALLATION

PROTECTION FLEECE



Place protection fleece roll onto the roof and lay over the waterproof layer in strips from one side to the other ensuring there is an overlap of at least 100mm for each strip of protection fleece to prevent any gaps that may expose the waterproofing beneath and risk subsequent damage. **(When cutting protection fleece ensure you use a sharp blade to avoid slippage and DO NOT under any circumstances cut near the waterproofing membrane. Damage to waterproofing is incredibly costly to Sky Garden and repeated instances may result in disciplinary proceedings. If you do accidentally cut the waterproofing, inform the contracts manager immediately and stop works)**

ALUMINIUM EDGE & STONES



The aluminium edge foot is placed under the Riverstone border but on top of the protection fleece which should be covering the whole roof area. The weight of the stones will hold the trim in place unless a fixing method is specified in the Method Statement or Brief. It is highly recommended that a fixing method is used when installing aluminium edge as a retention angle on a pitched roof system. Aluminium Edge is to be cut using snips and any sharp points/edges filed down to ensure no penetration to the waterproofing below. **(It is important that protection fleece is installed under the aluminium edging)**

As per GRO Guidelines, a Riverstone border of 500mm width and 75mm depth should have been specified unless otherwise communicated in the Project Brief and Method Statement. Place 25L sacks along the roof perimeter with a general spacing of 1 bag per 800mm. It is helpful to leave the cutting of the bags until the end of the works so that any trim can be repositioned if required.



STEP 3 – DRAINAGE BOARD WITH FILTER FLEECE



Sky Garden drainage board comes in two types. A drainage roll with a filter fleece already attached and drainage sheets that do not.

For drainage rolls with filter fleece already attached, place the sheets across the roof surface with an overlap of at least 100mm where the excess filter fleece is located – this lap is easily noticeable when the drainage rolls are unrolled. This overlap will prevent substrate reaching the protection fleece and waterproofing below. **(When cutting Drainage Board ensure you use a sharp blade to avoid slippage and DO NOT under any circumstances cut near the waterproofing membrane. Damage to waterproofing is incredibly costly. If you do accidentally cut the waterproofing, inform the roofing contractor immediately and stop works)**

Drainage board that arrives in sheets requires filter fleece to be laid over the top. 100mm overlaps are required. It is helpful to use either stone bags or substrate sacks to ballast the filter fleece as you lay it to stop it blowing around in the wind.

It is important to install drainage board underneath the river stone border to ensure continuity of drainage as per the GRO guidelines.

STEP 4 – SUBSTRATE INSTALLATION

Substrate arrives in either bulk bags or 25L sacks. The quickest method of installing substrate from bulk bags is to hover the bag 500-1,000mm above the drainage board from a crane and cut the bottom of the bag. The pile can then be raked to the required depth specified. Great care must be exercised when slewing bags onto the roof to prevent excessive point loading which could lead to damage of the building structure.

If substrate arrives in sacks, these should be distributed evenly across the drainage board and cut and poured using a sharp safety knife.



The roof area should be dipped to ensure the substrate depth is as required. The specified substrate depth must be achieved with an additional 10% settlement factor allowed for.



STEP 5 – VEGETATION INSTALLATION

(All vegetation should be installed within 24hrs of delivery)

Unroll the blankets on top of the substrate, butting each roll close to the other. Cut the rolls where required using a sharp blade, avoiding the waterproofing on upstands or around skylights. Use excess blanket to patch any bare areas.

The installed green roof system must be watered in, initially at a rate of 10-15litres/m². Irrigation to take the form of complete system saturation at least once a week in the first 12 weeks following installation. The same steps should be taken during prolonged periods of hot and dry weather.

Please advise the customer of this requirement during sign off.

If no water is available to water in, please include on the sign off sheet and make the customer aware of the risks.



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