

Green Roof Maintenance Requirements

Important operation and maintenance procedures:

- The plants will be watered during extended periods of dry weather. Watering is suggested (at a minimum) after 2 weeks without measurable rain or if ambient temperatures exceed 100°F for more than 3 consecutive days.
- Low addition of slow-release fertilizer may be applied during establishment and while plants are actively growing. Once plants are established, fertilizer addition is unlikely needed and typically not recommended.

After the green roof is established, it shall be inspected **quarterly**. Records of operation and maintenance shall be kept in a known set location and shall be available upon request.

Inspection activities shall be performed as follows. Any problems that are found shall be repaired immediately.

SCM element:	Potential problem:	How to remediate the problem:
The plant materials	Weeds are present.	Remove the weeds by hand. For repeat growth of the same weed, systemic weed killer may be applied to the single plant using a Q-tip or paint brush. In no case should weed killer be sprayed.
	Plants are dead, diseased or dying.	Determine the source of the problem: soils, hydrology, disease, etc. Remedy the problem and replace plants. An alternative species may be required.
The growing media	Ponding occurs after the first few rain events.	If not washed before mixing and installation, some aggregates may create a thin surface crust. The crust may be removed by light tilling and should not recur. If it does, consult the supplier.
	Persistent ponding occurs.	Check the particle size distribution of a sample(s) from the area susceptible to ponding. The sample should be representative of the full substrate depth. If particles less than 1 mm diameter exceed 5% by mass, excessive fine particulates are likely the problem. Consult the supplier. The media may need to be replaced.
	Substantial loss of material over time	Can result because of excessive organic matter (>20% by volume) in the media. Check with consultant to assess whether reduced media depth compromises stormwater retention, and hence permit compliance. Check with horticultural consultant regarding implications on plant health. Plants should not be sustained by regular fertilizer addition. If needed (and feasible), amend with additional media.
Gutters, drains and downspouts	Clogging has occurred.	Remove leaves, debris and other foreign matter and dispose of it in a manner that will not impact streams or the SCM. Inspect permeable edging and clear if needed.
	Damage has occurred.	Repair or replace the damaged conveyances.