



Moerings  **sempergreen®**

INSTALLATION GUIDE 2019

SEMPERGREEN® | MOERINGS USA LLC

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INSTALLATION AND MAINTENANCE INSTRUCTIONS GUIDE

SEMPERGREEN® VEGETATION BLANKETS

1. Roof soil preparation

- **Tools needed:**
 - 250 lbs lawn roller (pictured below)
 - Landscape rakes and shovels
 - Temporary Irrigation Drawings / equipment: OVERHEAD Sprinkler System. (10 GPM, 35-50psi)
- **Action:**

Compact the soil with the lawn roller to establish soil structure. Level soil and repair foot traffic damage (heel/toe marks). Pre-install a temporary overhead irrigation system prior to unrolling the blankets to cool the soil surface on sunny days and prevent wind erosion. A hot surface will scorch the root systems of the freshly harvested product.



Lawn roller



Roofing substrate prepared for installation

2. Recommended transport of Sedum blankets on the roof (roof > 20,000 sft or roofs with just 1 drop point for crane)

- **Recommended tools:**
 - Plywood boards
 - Flat cargo carts (1,800 lbs capacity)
- **Action:**

Put down $\frac{3}{4}$ " plywood boards to prevent excessive soil compaction. Use plywood as a road to easily maneuver the carts on and to protect blankets from foot traffic after installation as well.



Plywood road to prevent soil compaction

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3. Receiving and unloading from truck

- **Tools needed:**
 - Pallet Jack (**PLEASE NOTE:** Pallet Jack **NOT** included with the load)
 - Forklift / Bobcat / Lull with forks
 - Preferably a shady spot for unloading
- **Action:**
 - Pick the pallets from the truck with the forklift / bobcat. (We only ship on open-top flatbeds if the weather permits). Count the number of pallets and rolls. Note the paperwork. Unload in shade to protect plants from unnecessary heat exposure if possible.
 - Do not remove the cardboard cover from the pallet until the product is ready to be installed.
 - Confirm the inside of the roll to be cool to the touch (if hot, report to Sempergreen immediately). If the blankets cannot be placed on the roof the day of delivery, contact Sempergreen for instructions. Do not leave the Sedum blankets on a roll overnight. Unroll at roof or street level but cool roof/street level first with a generous flush of cool water to avoid the root systems being scorched!



Most loads are shipped in an enclosed, temperature controlled, reefer truck. A forklift/lull and pallet jack are required for easy unloading.

4. Lifting to the roof

- **Tools needed:**
 - Crane or other lifting device
 - Flat cargo carts on the roof recommended (1,800 lbs capacity)
- **Recommended action:**

For roofs 0-10,000 sq.ft. lift up to 4 cargo carts to the roof area. Add 1 cart for every additional 10,000 sq.ft. Weight of a Sempergreen® pallet is approximately 1,800 lbs. Confirm the actual weight with Moerings USA LLC. At roof level, place pallet on a flat cargo cart. Have the crane spread out the pallets/ shipping crates on the roof as much as possible. Bring cart across the plywood 'highway' as close as possible to the desired place of installation. Leave full cart for installation crew, bring back empty cart to reload.



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5. Installing the Sempergreen® vegetation blankets

- **Tools needed:**
 - Knives or scissors (bring extra as the sandy soil dulls cutting edges rapidly)
 - Buckets / wheelbarrow
 - One 6 foot long 1 -7/8" round pipe for each 3 installation crew members >>>>>
 - Overhead Irrigation (sprinkler) system / hoses
- **Recommended action:**
 - Start in the far corner. Work towards crane position. Drop the flat cargo cart with pallet near the installation location. Stagger the blankets in brick wall-type fashion.
 - Place pipe through the cardboard tube in the center of the Sempergreen® roll. Carry the roll to actual place of installation. Remove the stakes keeping the blanket from unrolling. Place the Sedum blanket on the roofing substrate as a number 9 (side view) with the blanket flap downward. Unroll carefully.
 - On warm and sunny days, cool down roofing substrate with water before plant material is put in place.
 - All Sedum blankets are machine cut and correct to size. When installing, re-stretch Sedum blanket to its maximum size. Not doing so can cause 3-5% shrinkage on the overall project with subsequent shortages.
 - Put crumbled off vegetation back in place. We recommend you try to avoid walking on the blankets!
 - **DO NOT ROLL IN THE BLANKETS AFTER INSTALLATION WITH THE LAWN ROLLER!!**
 - Use the knives/scissors to cut the blankets around roof penetrations. Use left-over pieces/plant chunks to fill in bare spots. Mineral based soil dulls the knives/scissors rapidly. Bring plenty.
 - Water during, and immediately after, the installation. Wash in loosened soil with initial generous watering. Do not wait till the end of the day!



Sempergreen® blankets are easy to install, even on sloped surfaces. Note the instant coverage of 25 sft with each roll.



Sempergreen® blankets are easy to 'cut-to-fit' with a utility knife or pair of scissors.

6. After Vegetative Blanket Install Care

- **Tools needed:**
 - Irrigation Lay-out Plan
 - Irrigation Timer
- **Action:**
 - Clean up the area of the roof. Sweep up soil to prevent erosion and keep drains from clogging.
 - Reposition hoses and OVERHEAD sprinklers to properly cover the complete roof WITHOUT the need to manually alternate. Set/adjust Irrigation timer to automate watering times. Thoroughly irrigate during/right after installation for a MINIMUM of 60 minutes.

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7. Recommended Watering Schedule (columns indicate # of irrigation cycles per week) USDA ZONES 3-8

For the first six (6) weeks, irrigate once (1x) per week for 60 minutes (or 0.5" to 1" of water) if there is no substantial rainfall. Recommended water pressure for temporary overhead irrigation is 10GPM at 35psi. If proper irrigation equipment has not been arranged we recommend you contact Mr. Wayne Wheeler at 'The Source Inc' (phone: 317-697-1160 or email wwheeler@virtualrain.com). At a reasonable fee 'The Source Inc' has the ability to supply the irrigation equipment needed (pictured below) including a booster pump, Yard Camel, Spider stands, hoses etc. A detailed plan/drawing of the surface to be irrigated needs to be produced in a timely manner. Inability to properly irrigate before, during and after installation until the roof is established gives Moerings USA LLC to void their standard warranty.



Yard Camel is a portable, multiple zone, timed watering system. Complete with controller, four valves and spider stands.



Flux Booster Pump to increase water pressure if needed.



Spider stand sprinklers to avoid damage to the roof.

Please feel free to contact either one of us if we can be of any further assistance.