



Etera® Sedum Cuttings

Product Specifications

Etera® Green Roof Plants
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SECTION XXXXXX Sedum Cuttings

PART 1 GENERAL

1.1 SCOPE

Provide all labor, material, tools, and equipment to unload, convey to roof, and install Etera Sedum Cuttings.

1.2 RELATED SECTIONS

- A. Membrane Roofing
- B. Irrigation

1.3 QUALITY ASSURANCE

- A. Source Responsibility: The vegetated roof plant material shall be bulk sedum cuttings as provided by Etera® Green Roof Plants.

- B. Contact:
 - Etera® Green Roof Plants
 - 14113 River Bend Road
 - Mt. Vernon, WA 98273
 - 877-694-7613 phone
 - sales@etera.com

- C. Installer:

- 1. Company specializing in work of this section with documented experience of comparable scope.
- 2. Accepted by Architect as qualified for installing work of this Section prior to Bid Date.

1.4 PROJECT CONDITIONS

- A. Environmental Conditions:

- 1. Etera® Sedum Cuttings should be installed after the anticipated date of last frost in the spring or before the anticipated date of first frost in the fall in the site area. See [Climatology of the US No. 20](http://www.ncdc.noaa.gov/oa/climate/freezefrost/freezefrost.pdf) at www.ncdc.noaa.gov/oa/climate/freezefrost/freezefrost.pdf for statistical interpretation of date of last frost/date of first frost.
- 2. Etera Sedum Cuttings should not be installed over waterlogged media.
- 3. Etera Sedum Cuttings should not be installed during prolonged periods of drought unless irrigation is available.

- B. Existing Conditions:

- 1. It is the responsibility of the installer to verify load limits for the roof structure prior to installation of the green roof elements.



2. It is the responsibility of the installer to inspect or verify inspection of a new or existing roof for watertight conditions prior to installation of the green roof elements.

PART 2 PRODUCTS

2.1 Etera® Sedum Cuttings:

- A. Etera® Sedum Cuttings shall be harvested from healthy, vigorous plants while in a vegetative growth mode. They shall range in length from ½" to 3" and possess sufficient rooting nodes to allow for rapid root development once sown.
 1. Sedum cuttings shall be harvested, cooled and dried for 24 hours prior to boxing for shipment and delivered in an insulated box with enclosed ice packs to ensure the cuttings remain cool until they are delivered.

(edit to requirements)

- B. Sedum cuttings shall be provided according to the landscape plan.
- C. Sedum cuttings shall be provided in the following varieties and pounds.
 1. *Note: List varieties, spread rate and pounds if no landscape plan exists.*

Note: Contact Etera® Green Roof Plants as shown above for available varieties.

2.2 IRRIGATION

- A. Irrigation must be applied until the cuttings have established roots into the growing media on the roof (6-8 weeks after installation).
 1. Thoroughly water entire roof surface prior to installation and again after the cuttings have been covered with a temporary mulch cover (see Section 3.4.C)
 2. Deliver ≥ ¼" water, 3 times per week for the first 2 weeks.
 3. Deliver ≥ ¼" water, 1-2 times per week for the next 4-6 weeks as needed to maintain a moist surface condition.
- B. Extended irrigation requirements are dependent upon project location, weather conditions, and plant selection. It is recommended that if a permanent irrigation system is not installed, that a backup system (such as hose bibs located on the roof) be available for use during prolonged periods of drought (>4 weeks with less than a total of ¼" precipitation).

PART 3 EXECUTION

3.1 GENERAL

- A. Etera® Sedum Cuttings shall be installed by qualified contractors with demonstrated experience and project references. The cuttings shall be installed in such a manner as to not damage or disturb any previously installed roofing components.

3.2 DELIVERY, STORAGE, AND HANDLING

- A. Sedum cuttings shall be delivered in such a manner as to preserve the quality of the cuttings. Truck delivery will be conducted in a manner as to protect the cuttings from temperature damage. For transport times less than 1 day, a closed or open trailer may be used. For longer duration transport times, the plugs shall be delivered in a climate controlled trailer (e.g. refrigerated container).
- B. Upon arrival, the cuttings shall be immediately off-loaded and moved to a protected area. Ideally, the cuttings are to be installed within 24 hours of arrival.
 - 1. If cuttings cannot be installed within 24 hours they can be stored a maximum of 48 hours at between 36°F - 45°F until sown.
 - 2. Protect the cuttings from weather extremes.
 - a. If it is hot, open all boxes immediately upon arrival and fluff up the cuttings by gently lifting them within the box to eliminate the settling that may have occurred in shipment and to increase air movement between the cuttings.
 - b. Move all boxes for temporary staging in a shady location.
 - c. If harsh winter conditions exist, set them out of the wind and protect them from frost.
 - 3. Do not store the cuttings in a closed, hot storage container.

3.3 EXAMINATION

- A. Underlying roof components shall be installed and tested according to manufacturer guidelines.
- B. Etera® Sedum Cuttings shall be examined for box count versus bill of lading and any damage that may be present. Any damage or discrepancy in box count should be duly noted and photos taken of the damaged material. Etera® Green Roof Plants shall be notified immediately with a complete description of any damage or missing boxes. Failure to notify Etera within 24 hours of delivery may result in a denial of any claim for damaged or missing boxes.

3.4 PREPARATION AND INSTALLATION

- A. Growth Media
 - 1. Spread a minimum of (*edit to requirements*) XX inches of growing media over the green roof system.
 - 2. Level growing media with a large rake.
 - 3. The growing media shall be moistened to the point where dust is not generated when disturbed before planting the cuttings.
- B. Etera® Sedum Cuttings:

1. If dry, the entire growing media surface shall be well moistened immediately prior to sowing the cuttings.
2. Cuttings shall be hand sown at a rate of (*edit to requirements*) XX pounds per 100 square feet of planting surface. *Note: Recommended rates are between 6-10 lbs/100 sf.*

(*edit to requirements*)

3. Distribute varieties as shown on landscape plan.
4. The cuttings shall be pre-mixed to ensure a random distribution of sedum varieties.

C. Temporary Mulch Cover

1. After sowing the cuttings shall be covered with a temporary mulch covering in the following manner. (*edit to requirements*)
 - a. A hydromulch covering shall be applied over the planted surface at a moderate rate as per manufacturer's guidelines. *Note: Recommended method.*
 - b. A lightweight erosion control blanket designed for vegetation establishment shall be rolled out and staked over the cuttings as per manufacturer's recommendations. *Note: Acceptable alternative.*
 - c. A 1-1 mixture of medium-course sand (ASTM C-33) sand and finely ground compost or weed-free topsoil shall be placed at 1/4" - 1/2" thickness over entire planted surface. *Note: Acceptable alternative.*

- D. The newly installed cuttings with mulch cover shall be immediately and thoroughly watered.

3.5 WARRANTY

- A. Etera® warrants that our products will conform to the description or pictures presented and will be viable when received. Since we have no control of plant growth once delivered, we give no other warranty, expressed or implied. Claims will be limited to the amount of the purchase price of the product and any applicable freight and royalty. Etera will not be held liable for consequential or incidental damages resulting from a shipment, such as: lost revenue, profit, commission, contamination, legal fees or any other damage

3.6 MAINTENANCE

- A. System installer shall maintain the vegetated roof for a period of at least (*edit to requirements*) [XXX] days after essential completion.
- B. Maintenance activities shall include:
 1. Water the vegetated roof system 3 times a week for the first two (2) weeks and 1-2 times a week for the next 4-6 weeks as needed to maintain a moist surface condition to aid in root establishment. Water the system more frequently during extended periods of hot, dry weather conditions.
 2. Provide hand weeding as necessary.
 3. Replace areas of damaged plants or bare spots using additional cuttings.

END OF SECTION