

PARAGREEN PRE-GROWN VEGETATED MAT



Commercial Product Data Sheet

Product Description

The Paragreen Pre-grown Vegetated Mat is a living plant palette of mixed sedum and other plant varieties specifically developed for extensive green roof systems. It is the surface component of the Paragreen Extensive Vegetated Roof System, and can be used on both low slope roofs with drainage (1/8"-2" slopes), and on higher sloped roofs when installed according to Siplast requirements. The Paragreen Pre-grown Vegetated Mat is comprised of a coconut fiber mat with a substrate layer of soil/mineral mixture, which provides a primary growing medium for the sedum and associated plants to develop and thrive. A variety of 8-11 different plant species are incorporated within each mat, allowing flowering of different colors at varying times.

The Paragreen sedum/plant palette mixture is self-regenerating, drought tolerant, able to withstand certain extremes in climate, and can grow on relatively shallow substrates. By combining a proprietary combination of sedum and other plants, growing and blooming cycles are alternated. The sedum mix in the mat allows for each plant to adjust to the particular ambient conditions of a roof, such as shade and drier/wetter spots. The pre-vegetated mat also functions as a moisture-retaining system, allowing water within the saturated mat to be re-evaporated into the atmosphere.

Application Guidelines

The roof deck and any associated planters should have sufficient slope and drainage points to promptly drain away surface water and prevent ponding. All other components of the Siplast Extensive Vegetated Roof System (waterproofing, root barriers, drainage mats, soil, etc.) must be properly completed before the Paragreen Pre-grown Vegetated Mat can be placed. The Paragreen Pre-grown Vegetated Mat should be handled with care to avoid any damage. Ensure that the soil growing medium is raked level before the mats are unrolled over it.

The Paragreen Pre-grown Vegetated Mat must be laid on the growing medium having a depth as required by the project conditions and Siplast specifications. The finished surface of the extensive substrate must be level when the sedum mat is laid to allow good contact between the growing medium and the sedum roots to ensure a quicker establishment time.

Delivery and Handling

Paragreen Pre-grown Vegetated Mats are rolled up and placed on pallets for shipping. The temperature of the Paragreen mats is maintained during transit using a temperature-controlled van. In order to maximize the opportunity for the plants to flourish, Paragreen Pre-grown Vegetated Mats should be delivered to the job site on the day the mat installation is scheduled to begin. Upon arrival at the job site, the temperature of the vegetated mats should be checked, and they should be cool to the touch. If the rolled mats have heated up during transport they must be rolled out immediately, and water must be applied to cool the unrolled mats. Place pallets with vegetation mats that are awaiting installation or roof loading in the shade if at all possible.

Physical Properties

Mat length: 6 feet 3 inches
Mat width: 4 feet
Coverage: Approximately 25 square feet
Dry weight per mat: 75-100 lb (3-4 lb/sf)
Wet weight per mat: 125-150 lb (5-6 lb/sf)

Shipping Information

Method of delivery: Refrigerated truck, which requires a pallet jack and a forklift or other appropriate machinery to unload.

Packaging: The pre-grown vegetated mats are rolled up and secured by the placement of three thin wooden sticks to hold them in place. The rolls are stacked horizontally on pallets. The top of the palletized rolls is covered with cardboard. The rolls are secured with 2 plastic bands wrapped around the pallet.

Number of rolls per pallet: 5, 10, or 15 as determined by project quantity and loading restrictions

Number of pallets per truckload: approximately 24, subject to weight limitations and shipping destination

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