

GREENSCAPES® GS-500 SERIES

GROWING MEDIA

DESCRIPTION

GS-500, GS-505 and GS-510 are light-weight engineered growing media blends for green roofs. The GS-500 series consists of a uniform distribution of aggregate grain sizes and organic materials producing consistent color, structure and texture that allows the media to maintain specified aeration, water permeability, erosion resistance and root penetration. The GS-500 series promotes sustainability of the green roof through its compatibility with plant life; having the correct physical, chemical and biological properties to promote vegetative growth. GS-500 Series Growing Media provides plant roots with a stable base to anchor the plant while providing a matrix from which the plant can

obtain air, water and nutrients to support life. GS-500 Series Growing Media is available in three general media types to meet the needs of a variety of green roof designs; GS-500 for extensive plantings, GS-510 for intensive plant types and GS-505 that is semi-intensive or custom designed to meet a range of project-specific parameters included very low load capacities or the demands of specialized plant palettes.

INSTALLATION

Place GS-500, 505 or 510 Growing Media on top of the green roof drainage composite filter fabric layer avoiding damage to the drainage and other materials including walls, paving, drainage and roof. Apply growing media at a

rate such that it does not exceed the project specific final grade when compacted using a 200-300 lb landscape roller or hand-held mechanical compactor achieving a 50-60% compaction as determined by ASTM D1557. For deeper intensive applications, GS-510 Growing Media should be placed in lifts not to exceed 8 inches between compaction efforts.

PACKAGING

The GS-500 Growing Media Series is shipped by the cubic yard either bulk, in 1/2 to 1 cubic foot poly bags or in 1-2 cubic yard super sacks. Contact CETCO for packaging options available in your area.

PHYSICAL PROPERTIES

SPECIFICATION	GS-500 EXTENSIVE	GS-505 SEMI-INTENSIVE	GS-510 INTENSIVE
Density (cubic ft. dry weight)	40-55 lbs (88.2-121.3 kg)	40-55 lbs (88.2-121.3 kg)	40-55 lbs (88.2-121.3 kg)
Density (cubic ft. max water capacity)	70-80 lbs (154.3-176.4 kg)	70-80 (154.3-176.4 kg)	70-80 lbs (154.3-176.4 kg)
Minimum Air Capacity at Saturation	≥7%	≥7%	≥7%
Maximum Water Capacity	40-60%	40-60%	45-65%
Water Permeability	0.024-2.83 in/min	0.024-2.83 in/min	0.0118-1.18 in/min
Total Organic Matter, By Combustion (dry weight)	25-65 g/L	25-65 g/L	50-90 g/L

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