

# ROOFSCAPES® TerraTRAY™



## Modular Vegetative Green Roof System

### Description

Terra-TRAY™ features a robust structural design, adaptable depth options, strong interconnectivity, and outstanding stormwater management capabilities. In contrast to hybrid or subterranean modular and traditional layered systems, Terra-TRAY™ modules can be quickly removed and reinstalled for roof maintenance or repairs without disturbing the vegetation. The system is engineered for optimal stormwater performance and accommodates irrigation lines placed directly beneath the modules.

Offering exceptional versatility, Terra-TRAY™ modules come in four depth configurations to support a wide range of plant selections. They can be pre-grown to achieve up to 95% plant coverage before delivery, ensuring an instantly lush, mature green roof that requires minimal initial maintenance and provides immediate visual appeal. Modules can also be custom-shaped with curves or angles to meet specific design requirements.

### Benefits

- No planting necessary—Creates instantly mature, attractive green roofs with up to 95% pre-grown coverage
- Supports stormwater management and sustainability with varied soil depths and planting options
- Designed for easy installation and removal
- Modules can be moved for modifications or roof repair
- Ideal for new or retrofit projects requiring easy roof access
- Single-Source Overburden Warranty - provided free of charge when modules are purchased from Barrett and installed over an approved Barrett roofing system



**PICTURED:** Image and aerial drawing of Terra-TRAY™ Extensive Module (4")

### Coverage

4 sq/ft per module

### Uses

- Intensive
- Semi-Intensive
- Extensive
- Ultra-Extensive

### Packaging

#### Ultra-Extensive/ Extensive

24" x 24" x 2.75-4"  
36 modules per pallet

#### Semi-Intensive/ Intensive

24" x 24" x 6-8"  
10 modules per pallet

## Specifications

Terra-TRAY™ Modules come in 2.75" (6.99 cm), 4" (10.16 cm), 6" (15.24 cm), and 8" (29.32 cm) depths in standard 2' x 2' (61 cm x 61 cm) dimensions. Each module is manufactured using 100% pre-consumer recycled linear low or medium density polyethylene protected by UV stabilizers and is black in color.

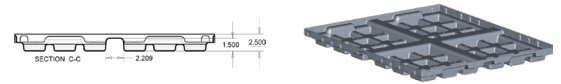
### 2.75" Ultra-Extensive and 4" Extensive Systems

Terra-TRAY™ Extensive Modules are typically composed of deciduous, semi-evergreen, and evergreen "base" species with "accent" species. The base mix is generally composed of five to eight species of Sedum with one to two accent species. Consult Barrett for plant recommendations.

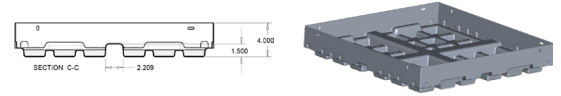
### 6" Semi-Intensive and 8" Intensive Systems

Terra-TRAY™ Intensive Modules may include varieties of ornamental and/or native groundcovers, grasses, perennials, and in some instances, trees and shrubs. Depending on the plant selection, an irrigation system is generally required. Since these rooftop gardens are similar to a backyard garden, they will require varying degrees of long-term maintenance and care. Consult Barrett for plant, vegetation, and maintenance recommendations.

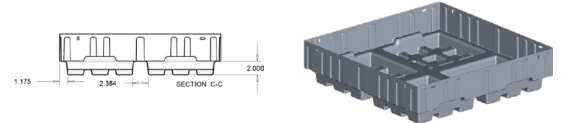
### Terra-TRAY™ Ultra-Extensive Module - 2.75"



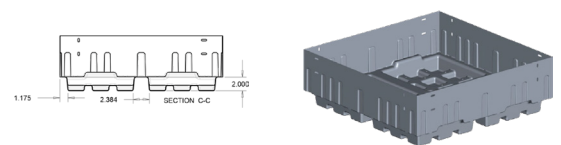
### Terra-TRAY™ Extensive Module - 4"



### Terra-TRAY™ Semi-Intensive Module - 6"



### Terra-TRAY™ Intensive Module - 8"



Properties	Ultra-Extensive	Extensive	Semi-Intensive	Intensive
Description	Measurement	Measurement	Measurement	Measurement
Depth	2.75 in (6.99 cm)	4.0 in	Depth	Depth
Length	24 in (61 cm) Outside Dimension ± 1/8 in	24 in (61 cm) Outside Dimension ± 1/8 in	24 in (61 cm) Outside Dimension ± 1/8 in	24 in (61 cm) Outside Dimension ± 1/8 in
Width	24 in (61 cm) Outside Dimension ± 1/8 in	24 in (61 cm) Outside Dimension ± 1/8 in	24 in (61 cm) Outside Dimension ± 1/8 in	24 in (61 cm) Outside Dimension ± 1/8 in
Saturated Weight Range	Min: 10 lbs/ft <sup>2</sup> (48.8 kg/m <sup>2</sup> ) Max: 15 lbs/ft <sup>2</sup> (73.3 kg/m <sup>2</sup> )	Min: 20 lbs/ft <sup>2</sup> (97.7 kg/m <sup>2</sup> ) Max: 30 lbs/ft <sup>2</sup> (141.6 kg/m <sup>2</sup> )	Min: 25 lbs/ft <sup>2</sup> (122.1 kg/m <sup>2</sup> ) Max: 45 lbs/ft <sup>2</sup> (214.8 kg/m <sup>2</sup> )	Min: 30 lbs/ft <sup>2</sup> (141.6 kg/m <sup>2</sup> ) Max: 60 lbs/ft <sup>2</sup> (293 kg/m <sup>2</sup> )
Module Wall Thickness	100 mils	100 mils	110 mils	110 mils
Depth of Water Reserve	0.75 in (1.91 cm)	0.75 in (1.91 cm)	0.75 in (1.91 cm)	0.75 in (1.91 cm)
Average Water Retention	0.5 gal/ft <sup>2</sup> (20.4 L/m <sup>2</sup> )	0.9 gal/ft <sup>2</sup> (36.7 L/m <sup>2</sup> )	1.4 gal/ft <sup>2</sup> (57 L/m <sup>2</sup> )	2.0 gal/ft <sup>2</sup> (81.5 L/m <sup>2</sup> )
Drain Hole Size	0.25 in (0.64 cm)	0.25 in (0.64 cm)	0.25 in (0.64 cm)	0.25 in (0.64 cm)
Growing Medium	FLL-compliant extensive, semi-intensive, and intensive regional blends. Custom blends are available to meet specific project specifications.			
Vegetation	Varies by module depth and project location. Succulents and groundcovers are typical in all module depths. Ornamental grasses and perennials for 6-in and 8-in applications. Native and other custom plantings are also available.			
Underlayment	Terra-FILTER™ Protective Fleece			
Module Connectors	Nylon/plastic panel fasteners or zip-ties. Fastener slots can be pre-fabricated in module sidewalls.			
Irrigation Systems	Designed based on project-specific requirements.			

**NOTE:** All weights and water retention values listed above are averages using standard growing media. Conservative estimates for vegetation and module weight per square foot were used. Actual weights and water retention values may vary based on project-specific variables including variations in regional media blends, specific vegetation used, etc. Contact Barrett for individual project values.



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