

ROOF GARDEN STORMWATER RETENTION SYSTEM

Versico Roofing Systems' Roof Garden Stormwater Retention System has been specifically designed for maximum moisture retention and meets the most stringent stormwater management requirements. Versico's Roof Garden Stormwater Retention System has been approved by both the Maryland Department of the Environment and Montgomery County, Maryland, as an alternative surface for environmental site design in new development, redevelopment, and retrofit applications by reducing stormwater runoff and mimicking natural hydrologic conditions.

System Description

Versico's Roof Garden Stormwater Retention System is a built-in-place, traditional green roof system that gets its superior stormwater retention properties from a combination of two primary retention products: a 1-inch-thick, needled mineral wool moisture retention blanket called Hydro-blanket D13, and 4 inches of engineered extensive Growth Media blended to FLL standards. When combined with Versico's HP Protection Mat and MiraDRAIN® 9800 Drainage Board, the system boasts a runoff curve number (RCN) of 77. When installed over a properly designed and warranted Versico roofing system, the Roof Garden Stormwater Retention System is eligible for up to a 20-year, single-source overburden warranty.

Vegetation Options

Sedums are the primary vegetation used in Versico's Roof Garden Stormwater Retention System. Versico's available sedum options include sedum mats, sedum tiles, or sedum plugs. For alternative vegetation options, contact Versico.

Typical Properties and Characteristics

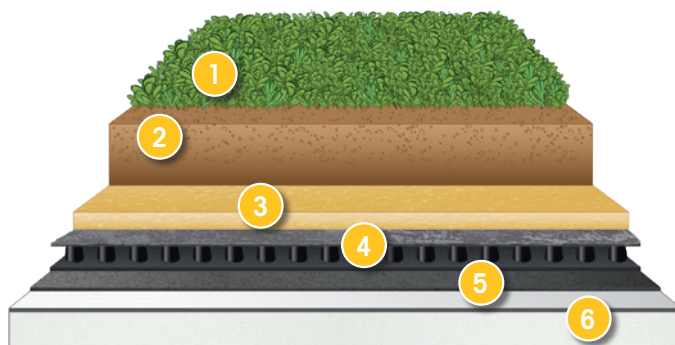
Property	Units	Result
Overall System Height*	Inches (cm)	5.4 (13.7)
Average Dry System Weight**	lbs. (kg)	20.3 (9.2)
Average Saturated System Weight**	lbs. (kg)	34.8 (15.8)
Average System Stormwater Retention	gal/ft ² (L/m ²)	1.96 (79.9)
	inches/ft ² (cm/m ²)	3.15 (86.1)
	ft ³ /ft ² (cm ³ /m ²)	0.263 (80,162)

*Does not include the height of vegetation or underlying roofing system.

**Weights are for overburden materials only and do not include the weight of vegetation. Contact Versico for accurate system weights based on specific project parameters.

For more information on Versico's Roof Garden Stormwater Retention System, or for project design assistance, contact Versico.

Typical Assembly



- 1 Sedum Mats, Tiles or Plugs
- 2 Versico Growth Media
- 3 Mineral Wool, 1" (25mm) Thick
- 4 CCW MiraDRAIN 9800
- 5 HP Mat or 200V Protection Mat
- 6 Approved Versico Roof Assembly featuring Adhered VersiGard® EPDM, VersiWeld® TPO, or VersiFlex™ PVC Membrane



A SINGLE SOURCE FOR SINGLE-PLY ROOFING

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