

## Water Storage Units for Green Roofs

Our Hybrid Blue Roof/Green Roof System for Tray and Layered Applications

### Description:

Columbia Green's Water Storage units allow for rooftop detention underneath our Tray and Layered Green Roof systems. This hybrid system allows you to maximize your rooftop for stormwater management- allowing for projects that want to green the rooftop, while also providing stormwater detention.

Our Water Storage Unit is a made up of thin-walled cylindrical columns injection molded of recycled resin of polypropylene for strength and durability. Water storage units are easy to cut to shape in the field, to work around irregular shapes.



### Design for Green Roof with Water Storage:

- 4-inch Height Storage Units are stackable
- Units are wrapped in Geogrid and Filter Fabric prior to green roof installation
- Columbia Green Warranty offerings available
- Lightweight, Easy installation
- 94% Open for Water Storage
- Membrane: Select a roof membrane designed for wet-type conditions. Contact Columbia Green for manufacturer and membrane-type recommendations.



### Flow Control Drain (by others)

Columbia Green's Water Storage units provide void space for detained water. Control drains installed at rooftop drains should be selected to ensure performance, depth and ideal release rate. Contact Columbia Green for manufacturer recommendations.



### Storage:

- Store components in a dry area.
- Store away from sources of ignition and extremely high temperatures. Precautions: Avoid prolonged exposure to sunlight, heat, sparks and open flames.
- Wash exposed skin prior to eating, drinking or smoking and at the end of each shift.

### System Weight\*:

| Water Storage Unit Depth | Dry Weight               | Saturated Weight with 4" Detained Water Depth |
|--------------------------|--------------------------|---|
| 4"- One Unit             | 1.4 lbs./ft <sup>2</sup> | 22.2 lbs./ft <sup>2</sup>                     |

\* Weight Listed for Storage Unit Only, See Columbia Green Tech Sheets for Layered or Tray-Based Green Roof system for total system weight.

### Packaging/Component Size:

| Water Storage Unit |                            |
|--------------------|----------------------------|
| Thickness:         | 4" Height, Stackable       |
| Dimension:         | 40" W x 40" L              |
| Color:             | Black                      |
| Coverage:          | 11.11 SF                   |
| Weight:            | 15 lbs per unit            |
| Packaging:         | 30"± dia. Roll             |
| Storage Volume %   | 94% Open for Water Storage |

