

# Technical Data Sheet







## Burdett's Rain Garden Materials

Rain gardens are designed to imitate how nature collects, filters and cleans water after rainfall. They are used in urban and industrial environments to improve water quality, reduce the effects of run-off, limit erosion and provide a sanctuary for birds and wildlife.

Rain gardens typically consist of 3 distinct layers. (A) Filter Layer (top), (B) Transition Layer (middle), (C) Drainage Layer (bottom). Each layer is designed to integrate with the other layers to provide a durable and sustainable ecosystem

The following is a guide only and should be evaluated against the requirements of your project

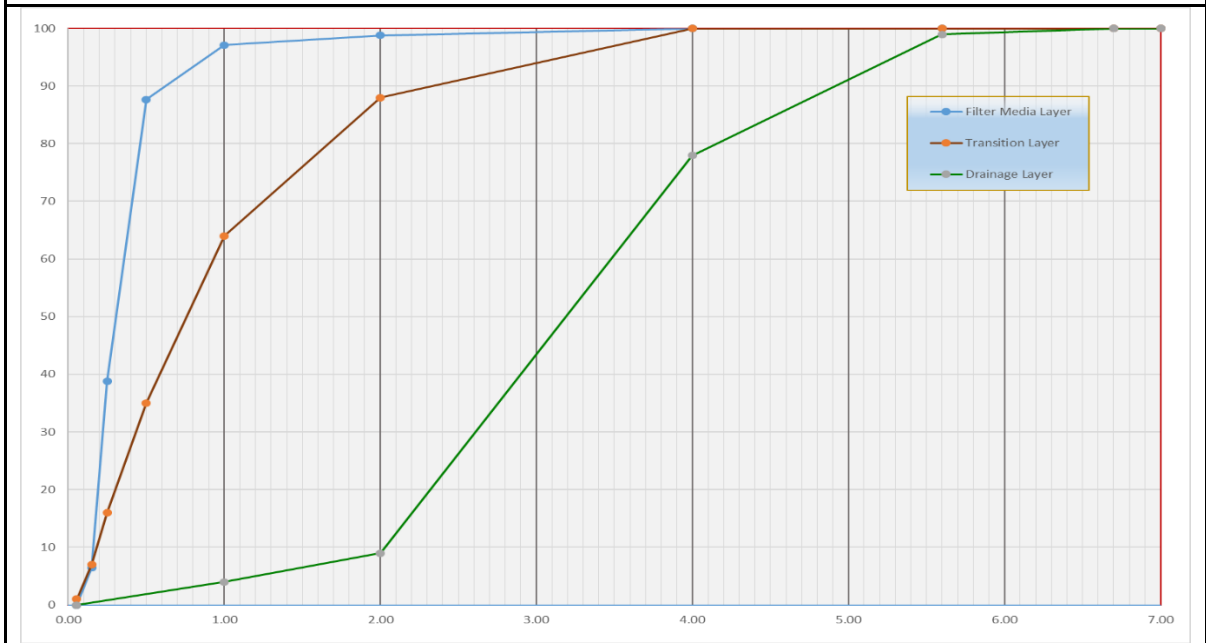
Layer	Burdett's Material	Primary Function	
<b><u>TOP</u></b> Filter Layer	Bio Filter Media	<ul style="list-style-type: none"> <li>Filtration of particulates &amp; pollutants</li> <li>Supports plant growth</li> </ul>	
<b><u>MIDDLE</u></b> Transition Layer	Coarse Sand	<ul style="list-style-type: none"> <li>Bridging layer to prevent migration of fine particles from the filter layer into the drainage layer</li> </ul>	
<b><u>MIDDLE *</u></b> Transition Layer + Carbon Source	Coarse Sand + Organic Matter	<ul style="list-style-type: none"> <li>Optional Submerged layer incorporating organic matter such as hardwood chips</li> </ul>	
<b><u>BOTTOM</u></b> Drainage Layer	2 – 5mm Grit / 7mm Gravel	<ul style="list-style-type: none"> <li>Allows water to drain into a collection pipe / outflow or into surrounding soils</li> <li>Temporarily stores stormwater in gaps</li> </ul>	

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IMPORTANT NOTICE: Above information is based on past test results and experience and is provided in good faith for assessment purposes only. This does not constitute a warranty made by any of the members of the Burdett Group. As Burdett's has no influence on the way in which these products are handled and used, we do not take any responsibility in this respect. You cannot rely solely upon this information to determine appropriate product use and must engage suitably qualified consultants to advise whether the product is fit for your end use.

Other Properties			
	Bio Filter Media	Coarse Washed Sand	2 – 5mm Grit or 7mm Gravel
Description	Light tan, friable sandy loam	Clean, well graded sand	Loose, free draining gravel
pH	5.5 – 7.5	6.0 – 8.0	6.0 – 8.0
Drainage (ASTM 1815) (mm/hr)	100 – 300	500 – 4000	> 20,000
Organic Content	< 5%	< 5%	< 5%
Electrical Conductivity	< 1.2 dS/cm	< 1.2 dS/cm	< 1.2 dS/cm

### Typical Gradings (% passing)



**Burdett's Rain Garden materials are available in bulk ex-bin or delivered from a variety of locations – please contact sales for more detailed information.**

<b>Filter Layer (SO327)</b>	<b>Transition Layer (SA252)</b>	<b>Drainage Layer (SA225)</b>
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**Reference:** CRC for Water Sensitive Cities, *Adoption Guidelines for Stormwater Biofiltration Systems (July 2015)*

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