



The Bright Green Living Wall Planter (BG-20) is a modular panel 19.6" x 19.6" including overlap areas or 19.6" by 19.6" of vegetation area and is delivered as a pre-planted product to the site or installation. The BG-20 consists of 45 cells in which vegetation is planted.

- 1 The BG-20 must be provided by Bright Green or an authorized dealer/nursery and meet or exceed the following:
 - a) Made of high density polyethylene (HDPE)
 - b) UV resistant
 - c) Temperature range -40°C (-40°F) to 80° C (176°F).

- 2 There are a total of 45 individual cells in each living wall panel. Each cell is set on a 30 degree angle and has a depth of 2.5" from the front of the panel to the back. Each cell also has notches in the bottom surface of the cell to allow for drainage and aeration. The notches do not extend completely to the back of the cell; this provides a water retention zone in each cell reducing the irrigation requirements.

- 3 There is a collection chamber at the top of each panel to collect water from the irrigation emitter line and direct it into each of the panel cells. There is a drip edge at the bottom of each panel to allow for excess water to drain away. The drip edge of each panel nests over top of the collection chamber of the lower panel and the water that is drained from the top panel is then collected and used by the lower panel. It is important to check that the spacing between the drip edge of the top panel and the collection chamber of the lower panel is not more than 4 millimeters. If this distance is greater, then water from above panel may be able to find a path to the back of the panels and drip down behind the panel rather than continue on a course through the growth medium profile of each panel.
- 4 There are two (2) fastener channels down each side of the living wall panel to provide an access point for fasteners to be used in securing the living wall panel to the mounting hardware.
- 5 Each panel has a horizontal support channel formed into the back to carry and disperse the weight evenly across the panel. This channel is configured with a 30 degree angle essentially using gravity for greater stability once mounted.

Physical Properties – General

Material Status	Commercial: Active
Availability	North America
Features	Food Contact Acceptable High Density
Agency Ratings	FDA 21 CFR 177.1520
RoHS Compliance	RoHS Compliant
Forms	Pellets

Physical Properties – ASTM and ISO Properties 1

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.953		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	6.6	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 73°F)	4110	psi	ASTM D638
Tensile Strength (Break, 73°F)	3250	psi	ASTM D638
Tensile Elongation (Yield, 73°F)	7.3	%	ASTM D638
Flexural Modulus (73°F)	181000	psi	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	261	°F	ASTM D1525 2

Notes:

- 1 Typical properties: these are not to be construed as specifications.
- 2 Rate A (50°C/h), Loading 1 (10 N)

Bright Green Vertical Planter

