

The Original Lightweight Aggregate

Hydraulic Press Brick Company

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Haydite Green Roof Lightweight Aggregates

Test Lab: Penn State University - Agricultural Analytical Services Laboratory

Please Read: The measures listed for each material type reflect values as an individual component of the total soil mix. If attempting to meet FLL Guideline limits, the composite soil mix (all components) must be tested together.

						Drainage	Drainage
			3/8" x No.0	No.4 x 0	No.4 x 0	3/8" x 8	1/2" x 8
Haydite Green Roof Properties (Individual Component of Soil Mix)			BX	A	AX	B	C
Particle Size Distribution							
d<0.05mm	mass %		8.20	9.60	6.80	1.60	0.20
Density Measurements							
Bulk Density (Dry Weight Basis)	g/cm ³ compacted		1.01	1.02	0.99	0.80	0.68
Bulk Density (Dry Weight Basis)	lb/ft ³ compacted		62.87	63.58	61.90	50.1	42.58
Bulk Density (Damp Loose Basis)	lb/ft ³		50.00	51.00	51.00	42.00	35.00
Bulk Density (at max. water holding capacity)	g/cm ³		1.38	1.36	1.38	0.95	0.78
Bulk Density (at max. water holding capacity)	lb/ft ³		85.91	86.29	84.94	59.52	48.74
Water & Air Measurements							
Moisture (as received)	Mass%		10.30	6.00	6.80	7.20	7.10
Total Pore Volume*	Vol. %		50.80	50.50	51.00	55.30	56.30
Maximum Water Holding Capacity	Vol. %		37.40	37.90	38.90	15.60	9.90
Air Filled Porosity (at max. water holding capacity)	Vol. %		13.40	12.60	12.10	39.70	46.40
Water Permeability (saturated hydraulic conductivity)	cm/s		0.01	0.01	0.02	0.72	0.74
Water Permeability (saturated hydraulic conductivity)	in/min		0.23	0.14	0.41	17.04	17.49

* Total pore volume determined using measured particle density instead of assumed particle density as specified in FLL.