

Mix Designs – Horticulture

Analysis	Units	Extensive Mix	Simple-Intensive Mix	Intensive Mix	FLL Guidelines for for Multi Course Extensive Sites
		70% 3/8" Norlite 20% Norlite Fines 10% Organics	50% 3/8" Norlite 40% Norlite Fines 10% Organics	30% 3/8" Norlite 60% Norlite Fines 10% Organics	
Particle Size Distribution					
< 0.05 mm (FLL reference value based on < 0.06 mm)	mass %	7.0	7.8	9.8	< 15
Density Measurements					
Bulk Density (dry weight basis)	g/cm3	0.90	0.95	0.98	-
Bulk Density (dry weight basis)	lb/ft3	55.98	59.13	61.21	-
Bulk Density (at max. water-holding capacity)	g/cm3	1.15	1.27	1.36	-
Bulk Density (at max. water-holding capacity)	lb/ft3	71.80	79.26	84.62	-
Water/Air Measurements					
Moisture (as received basis)	mass %	4.5	3.9	4.6	-
Total Pore Volume ²	Vol. %	48.3	48.1	49.4	-
Maximum water-holding Capacity	Vol. %	26.6	33.8	38.5	> 35
Air-Filled Porosity (at max water-holding capacity)	Vol. %	21.7	14.2	10.9	> 10
Water permeability (saturated hydraulic conductivity)	cm/s	0.296	0.045	0.022	> 0.001
Water permeability (saturated hydraulic conductivity)	in/min	7.003	1.068	0.529	> 0.0236
pH and Salt Content					
pH (CaCl ₂)		7.9	8.1	8.2	6.5 - 8.0
Soluble salts (water, 1:10, m:v)	mmhos/cm	0.21	0.29	0.29	-
Soluble salts (water, 1:10, m:v)	g (KCl)/L	1.04	1.52	1.59	< 3.5
Organic Measurements					
Organic matter content	mass %	1.8	1.8	1.6	< 6.0