

# 90-10 Rootzone

### Key Benefits

- Topdressing sand amended with peat
- High Saturated Hydraulic Conductivity (Ksat)
- Mechanically proportioned and blended for accurate and homogeneous results

### Application

- Rootzones for new construction or renovations of golf courses and sports fields
- Fine turf topdressing

### Recommended Physical Properties

Physical Property	Recommended Range	90/10 Rootzone Values
Total Porosity	35-55%	43.8%
Air-filled Porosity	15-30%	30.0%
Capillary Porosity	15-25%	13.8%
Organic Matter		0.50%
Bulk Density		150 g/cm <sup>3</sup>
Particle Density		2.66 g/cm <sup>3</sup>
Saturated Hydraulic Conductivity	Minimum of 6 in/hr	17.4 in/hr

### Particle Size Distribution

Name	Particle Size	Mesh Size	Recommended Range % Retained	90/10 Rootzone Values % Retained
Fine Gravel	2.0-3.4 mm	10-6 m	< 3%	0.1%
Very Coarse Sand	1.0-2.0 mm	18-10 m	*	5.7%
Coarse Sand	0.5-1.0 mm	35-18 m	*	26.2%
Medium Sand	0.25-0.50 mm	60-35 m	*	44.6%
Fine Sand	0.15-0.25 mm	100-60 m	< 20%	17.9%
Very Fine Sand	0.05-0.15 mm	270-100 m	< 5%	4.8%
Silt	0.002-0.05 mm	no standard equivalent	< 5%	< 1.0%
Clay	< 0.002 mm	no standard equivalent	< 3%	< 1.0%
VFS + S + C			<= 10%	6.8%
*FG + VCS			<= 10%	5.8%
*CS + MS			>=60%	70.8%



*These products are mixes of natural materials, so results may vary.*  
**For more information on Luck Ecosystems, please visit:**  
[www.luckecosystems.com](http://www.luckecosystems.com)