

BMG MATERIALS GUIDE SPECIFICATION FOR SOIL BASED BIO RETENTION MEDIA

PART 1: MEDIA BLEND COMPONENTS

A. Screened Sandy Loam	50%
B. Lightweight Volcanic Aggregate	30%
C. Organic Compost	20%

PART 2: COMPONENT PROPERTIES

A. Screened Topsoil

pH	6.5 – 8
Soluble Salts	<4
Sodium Adsorption Ratio	<7
Organic Matter %	>2
Texture	Sandy loam, Loamy Sand

B. Lightweight Volcanic Aggregate

Black Volcanic Fines

Gradation	Sieve	% Passing
	#3/8	100
	#4	85 – 100
	#16	40 – 80
	#50	10 – 35
	#100	5 – 25

Loose Bulk Density (cu. ft.): 50 – 55

Supplier Contact Information

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C. Organic Compost

pH	6 – 8
Soluble Salts	<5

Sodium Adsorption Ratio <10
Carbon / Nitrogen Ratio <30:1
Moisture % 25 – 35
Coarse Material 95% Passing 3/8"

PART 3: COMPONENT BLENDING

1. Mechanically mix 5 parts topsoil to 3 parts lightweight volcanic aggregate fines and 2 parts organic compost until a uniform distribution of the components is achieved.
2. When stockpiling the finished mix, cover the pile with a plastic tarp to protect the blend and prevent contamination from other materials.