

## Structural Soil SPECIFICATION

### Benedict Smartmix 3™ - 40mm Structural Soil

**SmartMix™3** – 40mm Structural Soil as supplied by Benedict Sand & Gravel or approved equivalent meeting the following criteria. As a guide structural soil is a blend of 5 parts Basalt Aggregate to 1 part Filler Soil.

#### Basalt Aggregate

Is to have the below grading and characteristics.

Test Method	Physical Properties % Passing	Acceptable Range
AS1141.11	75mm	100
	63mm	90-100
	53mm	75-100
	37.5mm	15-45
	26.5mm	0-20
	19mm	0-15
	13.2mm	0-10
	9.5mm	0-5
	4.75mm	0-2
AS1141.6.1	Particle Density (Dry) (t/m <sup>3</sup> )	Min 2.5
AS1141.22	Average Wet Strength (kN)	Min 80
	Wet/Dry Strength Variation (%)	Max 35
AS1141.23	Los Angeles Value, Grading“F” (% Loss)	Max 25
AS1141.24	Sodium Sulphate Soundness (Total % weight loss)	Max 9

#### Filler Soil

Is to be a high quality clay material that exhibits an Effective Cation Exchange Capacity (eCEC) of at least 20. Organic Matter is to be a maximum of 2% by weight.

A recent test result from an external laboratory such as SESL, stating its suitability as a Filler Soil for Structural Soil must be submitted before supply. The supplier is to add the amendments recommended in the laboratory report into the final mix before delivery.