

STRUCTURAL SOIL COMPOSITION GUIDE

STRUCTURAL SOILS (TYPICALLY 500mm DEEP)

STRUCTURAL SOIL MIX IS TO BE A THOROUGHLY COMBINED MIX OF AGGREGATE AND FILLER SOIL MIX IN A RATIO OF 5:1 (BY WEIGHT), TO THE STRUCTURAL REQUIREMENTS OF THE PROJECT CIVIL ENGINEER AS FOLLOWS;

FILLER SOIL MIX

FILLER SOIL SHALL BE A THOROUGHLY COMBINED MIX OF A CLAY LOAM OR SIMILAR SOIL (BURDETT'S MOUNTAIN SOIL BLEND MAY BE SUITABLE) AND 5% BY VOLUME OF COMPOSTED GREEN WASTE, SCREENED TO LESS THAN 12mm WITH THE FOLLOWING PROPERTIES;

SUBMIT SAMPLE FOR APPROVAL

ORGANIC MATTER	<1% BY WEIGHT
PH IN WATER	5.5-6.5
ELECTRICITY CONDUCTIVITY	<1.2 DS/M
AMMONIUM	20-200MG/KG
PHOSPHORUS	10-50MG/KG

ADDITIVES

TO THE ABOVE FILLER SOIL COMPONENTS, THE FOLLOWING ADDITIONS ARE REQUIRED (TO BE CONFIRMED DURING TESTING OF SAMPLES FOR APPROVAL)

MAGRILIME OR A 50/50 LIME/DOLOMITE MIX	TO BRING PH TO 5.5-6.5
TRACE ELEMENT MIX	100G/CUBIC METRE
POTASSIUM NITRATE	300G/CUBIC METRE
NITRAM (AMMONIUM NITRATE)	300G/CUBIC METRE
SUPERPHOSPHATE	300G/CUBIC METRE
IRON SULPHATE	500G/CUBIC METRE
CONTROLLED RELEASE FERTILISER (8-9 MONTH OSMOCOTE)	1.5KG/CUBIC METRE
GYPSUM	300G/CUBIC METRE
MAGNESIUM SULPHATE (EPSOM SLATS)	150G/CUBIC METRE

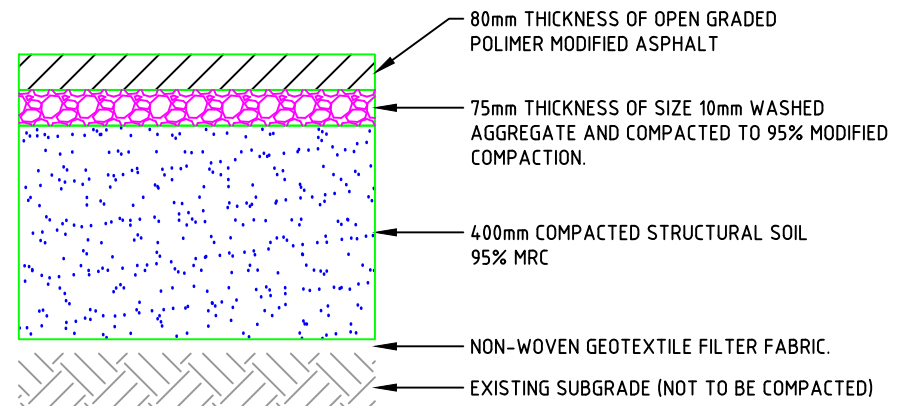
THESE ADDITIVES MUST BE MIXED WITH THE FILLER SOIL AND TESTED FOR COMPLIANCE WITH THE SPECIFICATION. FILLER SOIL SHALL BE INSTALLED AS DETAILED.

AGGREGATE

SHALL BE 40mm CRUSHED BASALT. GRAVEL SHALL BE CLEAN AND FREE FROM CLAY AND OTHER MATTER. SUBMIT SAMPLE FOR APPROVAL. THE AGGREGATE SHALL BE OF THE FOLLOWING PARTICLE SIZE DISTRIBUTION;

A.S. SIEVE	PERCENT PASSING
53.0	100
37.5	90-100
26.5	0-75
19.0	<15
13.2	<2
9.5	<2
6.7	<2
4.75	<2
2.36	0

TRANSPORTING SOIL MIXES MUST BE DELIVERED TO SITE PRE BLENDED. THE SOIL MIX MUST BE TRANSPORTED IN A MOIST CONDITION TO PREVENT SEGREGATION OF COMPONENTS



POROUS ASHPALT PAVEMENT

NOT TO SCALE



Rev.	Revision Details	By	Date

POROUS ASPHALT PAVEMENT
WITH STRUCTURAL SOIL

ENGINEERING SERVICES BRANCH

Approved By		Drawing Number	1P 50414
Principal Engineer Infrastructure	Manager Engineering Services	Revision	A
Date	Oct, 2014	Date	Oct, 2014
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