



21A Structural Soil

Key Benefits

- Provides structural base and growing media for vegetated vehicular traffic areas
- Affordable alternative to manufactured grids or mats

Applications

- Vegetated road shoulders
- Vegetated fire lanes and overflow parking areas
- Vegetated areas designated for light-vehicular traffic

Helpful Hints

Engineer should determine appropriate application and depth of structural soil required

Composition	VDOT 21A crushed aggregate Screened Topsoil
Bulk Density <i>prior to full compaction</i>	1.7 tons/yd ³ (approximate) <i>assumes moderate compaction and average moisture</i>

Typical Analysis

	Standard Proctor	Modified Proctor
Maximum Dry Density	126.5 pcf	129.4 pcf
Optimum Moisture Content	9.8%	7.4%
CBR, @ 53 blows, 0.10 in.	16.9%	24.5%
CBR, @ 53 blows, 0.20 in.	20.2%	27.3%

Particle Size Distribution

Mesh Size	% Passing
1"	100.0
3/4"	97.7
1/2"	85.9
3/8"	81.0
#4	70.1
#8	63.8
#16	57.5
#30	51.2
#40	47.9
#50	42.7
#100	32.4
#200	20.7



These products are mixes of natural materials, so results may vary.
For more information on Luck Ecosystems, please visit:
www.luckecosystems.com