



2021

Product Data Sheet
Plant: Lawyers Road

I. GEOLOGICAL FORMATION: ARCH MARBLE

II. CHEMICAL ANALYSIS (MAY 2021) :

Silica	as SiO ₂	13.7%	Calcium	as CaO	44.5%	CaCO ₃	75.0%
Iron	as Fe ₂ O ₃	2.0%	Magnesium	as MgO	2.4%	MgCO ₃	5.0%
Aluminum	as Al ₂ O ₃	2.4%	Calcium Carbonate Equiv.	CCE			80.0%
Sulfur	as S	0.2%					

III. QUALITY DATA:			Product									
TEST	TEST DATE		3	357	57	W 57	68	78	8/8P	9	Sand	10
* SPECIFIC GRAVITY *												
BULK (ASPHALT)	3/21		2.723	2.710	2.706	2.708	2.704	2.707	2.722	2.677	2.684	2.680
BULK - SSD (CONCRETE)	3/21		2.729	2.717	2.719	2.717	2.716	2.719	2.732	2.969	2.706	2.706
APPARENT	3/21		2.739	2.730	2.741	2.734	2.737	2.739	2.749	2.730	2.746	2.752
% ABSORPTION	3/21		0.2%	0.3%	0.5%	0.4%	0.4%	0.4%	0.4%	0.7%	0.9%	1.0%
DRY RODDED (LBS/CUBIC FT)												
DRY RODDED (LBS/CUBIC FT)	3/21		101.5	98.1	102.1	100.8	101.2	98.1	97.0	94.8	102.8	114.8
DRY RODDED (LBS/CUBIC YARD)	3/21		2741	2649	2757	2722	2732	2649	2619	2560	2776	3100
DRY RODDED (% VOIDS)	3/21		40.3%	42.0%	39.5%	40.4%	40.0%	41.9%	42.9%	43.3%	38.6%	31.4%
DRY RODDED (Kg/Cubic Meter)	3/21		1626	1571	1635	1615	1621	1571	1554	1519	1647	1839
VTM-5 % VOIDS IN STONE SAND	3/21										44.8%	44.0%
ASTM C1252 % VOIDS (METH B)	3/21										53.2%	54.0%
ASTM C1252 % VOIDS (METH C)	3/21										44.0%	40.8%
ASTM D4791 % F & E (3:1)	3/21				31.5%	25.8%	25.2%	30.5%	24.8%			
GRADING												
GRADING A % LOSS	3/21	26.1%										
GRADING B % LOSS	3/21	24.5%										
GRADING C % LOSS	3/21	25.2%										
SOUNDNESS % LOSS (Magnesium Sulfate)	4/21		0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.4%	2.2%	6.0%	3.9%
SOUNDNESS % LOSS (Sodium Sulfate)												
Stone (lb/sq yd)												
Stone (lb/sq yd)												
Emulsion (gal/sq yd)												
Emulsion (gal/sq yd)												
* SUPERPAVE *												
ASTM C1252 % VOIDS (METH A)	3/21										48.4%	49.6%
AASHTO T 176 SAND EQUIVALENT	3/21										92	68
ASTM D4791 % F & E (5:1)	3/21				2.5%	3.6%	2.2%	5.4%	3.0%			
ASTM D5821 % FRACTURE FACES	4/21		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%			