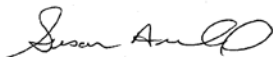


STANDARD SPECIFICATION FOR LIGHTWEIGHT 1/2" STRUCTURAL COARSE AGGREGATE (ASTM C330) (FINAL REPORT)

Project: Lab Services Project #: 0534 Report Date: 2/8/2017
 Client: Utelite Tested By: CMT
 Material Type: 1/2" Structural Coarse Aggregate Source: Utelite

Sieve Analysis			Physical Properties				
ASTM C136, AASHTO T27			Standard	Test Method	Lab Number	Result	Specification
Sieve Size	% Passing	Spec					
			ASTM C142/AASHTO T112	Clay Lumps & Friable Particles	584625	0	2% MAX
50 mm (2 in.)			ASTM C29/AASHTO T19	Loose Dry Bulk Density	584632	49.9	55 lb/ft ³ MAX
37.5 mm (1.5 in.)				Loose SSD Density		59.8	-
25 mm (1 in.)			ASTM C-1761	SSD Specific Gravity	584650	1.837	-
19 mm (0.75 in.)	100	100	ASTM C-1761	Absorption		15.4	-
12.5 mm (0.5 in.)	91	90-100	ASTM C39	Compressive Strength	588448	5733	4000 psi MIN
9.5 mm (0.375 in.)	66	40-80	ASTM C567	Fresh Density	587414	120.7	-
6.3 mm (0.25 in.)				Approximate Equilibrium Density		114.3	115 MAX
4.75 mm (No. 4)	6	0-20		Oven Dry Density		111.3	-
2.36 mm (No. 8)	2	0-10	ASTM C496	Splitting Tensile Strength	587412	400	320 psi MIN
2.00 mm (No. 10)			ASTM C157/C330 8.4	Drying Shrinkage	587411	0.048	0.070% MAX
1.18 mm (No. 16)			ASTM C151	Popouts	-	-	-
0.6 mm (No. 30)			ASTM C666	Resistance to Freeze/Thaw	-	-	-
0.425 mm (No. 40)			Additional Tests				
0.300 mm (No. 50)			Standard	Test Method	Lab Number	Result	Specification
0.180 mm (No. 80)			ASTM C88/AASHTO T104	Sodium Soundness Loss (%)	584649	6.2	12% MAX
0.150 mm (No. 100)				Number of Cycles		5	-
0.075 mm (No. 200)	1.3	0-10	ASTM C88/AASHTO T104	Magnesium Soundness	584649	1.12	18% MAX
Lab Number		584631		Number of Cycles		5	-
ASTM C136, AASHTO T27 Fineness Modulus		6.3	ASTM C1260	Reactivity	588891	0.05	0.10% MAX
Chemical Composition			ASTM C131/AASHTO T96	LA Wear Coarse Loss (%)	-	-	50% MAX
Standard/Lab Number	Results	Specification		Grading/Revolutions		-	-
ASTM C40 Organic Impurities	-	Lighter than Standard	ASTM D5821	Fracture Face (1 or 2 Faces)	-	1 or 2 Faces	
ASTM C641 Staining (584646)	0	60 MAX		Fractured Face (%)		-	
ASTM C114 Loss on Ignition (584647)	0.16	5% MAX	ASTM D4791	Flat and Elongated (%)	-	-	

Sincerely,



Laboratory Manager