



624 Grassmere Park, Ste. 14
Nashville, TN 37211
615.331.7770

www.TTLUSA.com

CLIENT: Pine Bluff Materials Company
1030 Visco Drive
Nashville, Tennessee 37210

MATERIAL: Coarse Sand (Natural)

SUPPLIER: Client

DATE: January 09, 2025

PROJECT NO. 200812005

ASTM C 40 - 20 "Organic Impurities in Fine Aggregates for Concrete"	
Organic Plate No.	ASTM C 33 Specification *
# 3	# 3 (Standard)

* Aggregates subjected to the test for organic impurities and producing a color darker than the standard shall be rejected"
(7.2.1) – **HIGHER NUMBER INDICATES DARK**



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PROJECT NO. 200812005

ASTM C 88 - 24 "Soundness of Aggregates by use of Sodium Sulfate or Magnesium"					
Sieve Size		Original Sample Grading (%)	Weight of Test Fractions Before Testing (g)	% Passing Finer Sieve After Test	Weighted % Loss
Passing	Retained				
# 3/8	#4	5.0	100.06	3.5	0.18
#4	#8	7.3	100.40	3.9	0.29
#8	#16	5.0	100.20	2.3	0.11
#16	#30	15.1	100.30	1.2	0.17
#30	#50	67.6	100.30	2.6	1.75
Total Loss (%)			ASTM C 33 Specification		
2.50			10 % Maximum		

- The test was performed using sodium sulfate.



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ASTM C 117 - 23 "Materials Finer than No. 200 Sieve in Mineral Aggregates by Washing"	
Percent Finer Than No. 200 Sieve	ASTM C 33 Specification (Table 1)
0.08 %	3.0 % max (concrete subject to abrasion) 5.0 % max (all other concrete)

* Test was performed using Procedure A (washing with plain water)



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ASTM C 123 - 23 "Lightweight Pieces in Aggregates"	
Percent Lightweight Pieces	ASTM C 33 Specification (Table 2)
0.07 %	0.5 % Maximum (where surface appearance of concrete is important)
	1.0 % Maximum (all other concrete)



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ASTM C 128 - 22 "Specific Gravity and Absorption of Fine Aggregates"	
Bulk Specific Gravity	2.57
Bulk Specific Gravity (SSD)	2.60
Apparent Specific Gravity	2.65
Absorption (%)	1.15



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ASTM C 136 - 19 "Sieve Analysis of Fine and Coarse Aggregates"					
Sieve Size	Wt Retained	% Retained	Acc % Ret	% Passing	Spec: ASTM C 33
1/2"					
3/8"	0.00	0.00		100.00	100
#4	16.64	4.16		95.84	95 - 100
#8	63.76	15.95		84.05	80 - 100
#16	116.15	29.06		70.94	50 - 85
#30	206.76	51.73		48.27	25 - 60
#50	369.47	92.44		7.56	5 - 30
#100	398.65	99.74		0.26	0 - 10
#200	399.60	99.98		0.02	
Pan	399.69	100.00		0.00	
TOTAL	399.69				
Fineness Modulus				2.93	

ASTM C 33:
(Sec. 6.4)

Fine aggregates failing to meet these grading requirements shall meet the requirements of this section provided that it demonstrates that concrete of the class specified, made with fine aggregate under consideration, will have relevant properties at least equal to those of concrete made with the same ingredients, with the exception that the referenced fine aggregate shall be selected from a source having an acceptable performance record in similar concrete construction.



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ASTM C 142 – 17 (2023) “Clay Lumps and Friable Particles in Aggregates”	
Percent Clay Lumps and Friable Particles	ASTM C 33 - 16 Specification (Table 1)
0.14 %	3.0 % Maximum



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ASTM D 2419 - 22 "Sand Equivalent Value of Soils and Fine Aggregate"	
Sand Equivalent (SE)	100