



Concrete Submittal

Date: 1/1/2024
Project: Big City Pool & Play Ground
Contractor: Patterson Concrete
Location: East Greenwich
Design PSI: 9000
Mix Design ID: C35-NA
Plant: East Bay

W/cm ratio: 0.543
Sand / Total Agg: 0.42
Design Unit Weight: 140.6
Design Slump Range: 3-4"
Design Air % Range: 4.5-7
Placement Method: Bucket

Cementitious:	(%)	Wt. Lb	Sp.Gr.	Ft ³	Source	Spec.
Portland Type II	67%	350	3.15	1.78	Lehigh Cement	ASTM C 150
F Ash	14%	75	2.55	0.47	ABC Ash	ASTM 618
GGBFS - Slag Cement	19%	100	2.90	0.55	Cape Slag	ASTM 595
Aggregates:	(%)	Wt. Lb		Ft ³	Source	Spec.
ACI - 1. 1/2	18%	543	2.65	3.29	Farm Hills Quarry	ASTM C33
3/8" Stone	19%	568	2.67	3.41	Red Rock Quarry	ASTM C33
ACI Fine Agg	42%	1264	2.66	7.61	Butler Rock Quarry	ASTM C33
3/8" Stone	2%	68	2.67	0.41	Red Rock Quarry	ASTM C33
ACI - 1. 1/2	18%	543	2.65	3.29	Farm Hills Quarry	ASTM C33
Design Air:	(%)	Wt. Lb		1.62		Spec.
	6.0%					
Water	Gal.	Wt. Lb		Ft ³		Spec.
(Gal - lbs - Vol)	34.2	285		4.57		
Admixtures:	Oz/cwt	Oz/yd ³			Source	Spec.
Water Reducer	5.00	26.25			AdMix Co. #1	ASTM C494
AEA	0.67	3.50			AdMix Co #4	ASTM C260
Fiber / Color						
Totals		3797		27.00		
Comments:						

The strengths produced by this concrete mix design will meet the acceptance criteria of ACI 318, "Building Code Requirements for Reinforced Concrete" and ACI 301, "Specification for Structural Concrete Buildings" when sampling and specimen preparation are performed by personnel certified as technicians by ACI in full accord with applicable ASTM standards. ASTM C94 requires that the ready-mix producer be given copies of test reports in a timely manner or on request.