

Concrete Mix Design — Volume Concrete — Dispatch (971) 219-8604 — www.volumeconcrete.com

Mix ID Number:	Rapid Set Concrete Volumetric Truck	Date:	1/16/24			
Design Strength:	3000 psi 20.68 MPa	Plant:	Estacada			
		Designed By:	CTS Cement			
MIX DESIGN QUANTITIES		English Units				
Material	Product/Source	Spec Grav	Weight lb			
Cement	CSA from CTS Cement	2.96	705			
		2.90	0			
		2.20	0			
Water (Total)	Municipal Source	1.00	230			
3/4" - #4	Estacada Pit	2.68*	1680			
3/8" - #4	Estacada Pit	2.65*				
Fine Aggregate	Estacada Pit	2.52*	1305			
	Total Mix Weight		3920			
	Air (Entrap/Entrain)	5% ±1.5				
	Total Mix Volume		27.00			
ADMIXTURES						
Product	Product Name / Type	Dosage Rates	Dosage (English)			
Air Entrainment	Euclid AEA 92S	0.80 oz/cwt**	3.7 oz/cy**			
Water Reducer	Euclid Econ WR91	5.00 oz/cwt**	22.5 oz/cy**			
Superplasticizer	Euclid Plastol 6400	0.00 oz/cwt**	0.0 oz/cy**			
Waterproofing		0.00 oz/cwt**	0.0 oz/cy**			
Hydration Stabilizer	Citric Acid	3.00 oz/cwt**	16.7 oz/cy**			
Fibers Monofilament	PSI Fiberstrand 150	0 lb/cy**	0.0 lb/cy**			
MIX DESIGN PROPERTIES						
Aggregate Properties:		SG	Abs	FM	Dry Rodded	Unit Wt
	3/4" - #4	2.87	3.1%	n/a	104.5	pcf
	3/8" - #4	2.65	3.8%	n/a	99.0	pcf
	Fine Aggregate	2.52	6.0%	2.90	n/a	
Plastic Properties:		Slump:	5.0 ±	1.0"		
		Air Content:	5.0 ±	1.0%		
		Unit Weight:	145.19	pcf		2322.96 kg/m3
Design Properties:	Total Cementitious:		705	lb		420 kg
	Slag Replacement:		0.00	%	W/C Ratio:	0.33 (Incl Admix)
Project:						
Contractor:						
Comments:	This mix design will exceed the required laboratory strength when slumps 6.0" or less.					
Footnotes:	*SSD Weights and Spec Gravities. **Admixture dosage rates will be adjusted according to manufacturers recommendations to accommodate varying field conditions.					

Visit www.volumeconcrete.com to learn more (i.e., policies, MSDS, about us, and additional mix designs). Delivering LDCC Low density Cellular Concrete for pipe abandonment, sewer abandonment and excellent for backfill thanks to a low lateral pressure and weight. LDCC is available in 27 lbs. per cubic foot & up to 100 lbs. per cubic foot. Permeable and non-permeable LDCC depending on application.