



ATLANTIC TESTING LABORATORIES

WBE certified company

Coarse Grout

MIX VERIFICATION REPORT NUMBER AT2505CL-14C-08-17

CLIENT: Oneonta Block Co. PLACEMENT DATE: August 1, 2017 (Tuesday)
 PROJECT: Mix Design Verification CYLINDERS FABRICATED BY: R. Field
 Otsego Ready Mix, Inc. SUPPLIER: Otsego Ready Mix, Inc.
 PLACEMENT LOCATION: Mix Design Verification

MIX DESIGN DATA

MIX DATA OBTAINED FROM: Client Mix Designation: 0508 Course Grout
 DESIGN STRENGTH AT 28 DAYS: 2500 psi

PER cy:	CEMENT (lbs):	517	CEMENT BRAND:	Lafarge North America, type I/II
	WATER (gals):	45.4	W/CM RATIO:	0.73
	FINE AGG. (lbs):	2139	FINE AGG. SOURCE:	Poland Sand and Gravel, Russia NY
	COARSE AGG. #1 (lbs):	860	COARSE AGG SOURCE:	Cobleskill Stone, Cobelskill, NY
	WRA (oz):	20.7	WRA BRAND:	Eucon WR91, Euclid Chemical Co.

LABORATORY INFORMATION

At the request of Mr. Robert Harlem, representing Otsego Ready Mix, Inc., concrete testing was performed. Laboratory testing was performed in accordance with the following ASTM methods: C 31, C 138, C 143, C 231, and C 1064.

Fine Aggregate Absorption (%)	Coarse Aggregate Absorption (%)	Yield (cf)	Batch Number	Air (%)	Slump (in.)	Concrete Temperature (°F)	Plastic Unit Weight (pcf)	Volume (cf)	Number of Cylinders Fabricated
0.3	0.4	27.4	1	3.8	7 ¼	80.6	142.0	1.0	9

LABORATORY DATA (ASTM C 39, C 511, and C 1231)

Cylinder I.D.	Batch Number	Slump (in.)	Unit Weight (pcf)	Date of Test	Age (days)	Cylinder Area (in. ²)	Total Load (lbs.)	Unit Load (psi)	Sample Location
2505CL-118	1	7 ¼	142	08/07/17	6	12.50	38,570	3090	ATL Lab
2505CL-119			142	08/07/17	6	12.50	37,270	2980	
2505CL-120			143	08/15/17	14	12.50	46,550	3720	
2505CL-121			143	08/15/17	14	12.44	47,110	3790	
2505CL-122			141	08/29/17	28	12.57	56,060	4460	
2505CL-123			140	08/29/17	28	12.69	53,590	4220	
2505CL-124			141	08/29/17	28	12.57	53,720	4270	
2505CL-125			(ww)	(ww)	Hold	(ww)	(ww)	(ww)	
2505CL-126			(ww)	(ww)	Hold	(ww)	(ww)	(ww)	

REMARKS

The design data was provided by the client.
 The final curing was performed in tanks filled with lime saturated water.
 (ww) The cylinder was discarded after the 28-day cylinders met the required mix design strength.
 Due to the violent release of energy stored in pads, the broken cylinder rarely exhibits conical fracture typical of capped cylinders, and the sketches of fracture in ASTM C 39 are not descriptive.

Reviewed by: John Dorman Date: September 5, 2017