



# ATLANTIC TESTING LABORATORIES

WBE certified company

## MIX VERIFICATION REPORT NUMBER AT2505CL-19B-05-18

CLIENT: Oneonta Block Co. PLACEMENT DATE: May 15, 2018 (Monday)  
 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: 04021ISI-S  
 DESIGN STRENGTH AT 28 DAYS: **3000 psi**

PER cy:	CEMENT (lbs):	432	CEMENT BRAND:	Lafarge North America, type I/II
	SLAG (lbs):	108	SLAG BRAND:	Essroc, Oswego, NY
	WATER (gals):	33.6	W/CM RATIO:	0.52
	FINE AGG. (lbs):	1530	FINE AGG. SOURCE:	Poland Sand and Gravel, Russia NY
	COARSE AGG. #2 (lbs):	825	COARSE AGG SOURCE:	Cobleskill Stone, Cobelskill, NY
	COARSE AGG. #1 (lbs):	825	COARSE AGG SOURCE:	Cobleskill Stone, Cobelskill, NY
	AEA (oz):	---	AEA BRAND:	AEA92, Euclid Chemical Co.
	WRA (oz):	16.2	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	26.7	1	2.4	3.5	71	149.6	1.5	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. <sup>2</sup> )	Total Load (lbs.)	Unit Load (psi)	Sample Location	
2505CL-163	1	3 ½	149	5/18/18	3	12.57	45,180	<b>3590</b>	ATL Lab	
2505CL-164			149	5/18/18	3	12.63	44,370	<b>3510</b>		
2505CL-165			150	5/22/18	7	12.50	64,730	<b>5180</b>		
2505CL-166			150	5/22/18	7	12.50	62,750	<b>5020</b>		
2505CL-167			148	6/12/18	28	12.63	85,570	<b>6780</b>		
2505CL-168			150	6/12/18	28	12.57	89,860	<b>7150</b>		
2505CL-169			148	6/12/18	28	12.63	84,170	<b>6660</b>		
2505CL-170										
2505CL-171										

### REMARKS

The design data was provided by the client.  
 The final curing was performed in tanks filled with lime saturated water.  
 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: \_\_\_\_\_

Date: June 14, 2018