



# ATLANTIC TESTING LABORATORIES

WBE certified company

## MIX VERIFICATION REPORT NUMBER AT2505CL-16B-05-18

CLIENT: Oneonta Block Co. PLACEMENT DATE: May 14, 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: FS2  
 DESIGN STRENGTH AT 28 DAYS: **4000 psi**

PER cy:	CEMENT (lbs):	414	CEMENT BRAND:	Lafarge North America, type I/II
	SLAG (lbs):	103	SLAG BRAND:	Essroc, Oswego, NY
	WATER (gals):	30	W/CM RATIO:	0.48
	FINE AGG. (lbs):	1337	FINE AGG. SOURCE:	Poland Sand and Gravel, Russia NY
	COARSE AGG. #2 (lbs):	900	COARSE AGG SOURCE:	Cobleskill Stone, Cobelskill, NY
	COARSE AGG. #1 (lbs):	900	COARSE AGG SOURCE:	Cobleskill Stone, Cobelskill, NY
	AEA (oz):	2.1	AEA BRAND:	AEA92, Euclid Chemical Co.
	WRA (oz):	15.5	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	26.6	1	5.3	3.75	72	146.8	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-136	1	3 ¾	148	5/17/18	3	12.44	41,780	<b>3360</b>	ATL Lab
2505CL-137			146	5/17/18	3	12.57	40,500	<b>3220</b>	
2505CL-138			147	5/21/18	7	12.44	57,220	<b>4600</b>	
2505CL-139			145	5/21/18	7	12.63	56,060	<b>4440</b>	
2505CL-140			147	6/11/18	28	12.44	77,130	<b>6200</b>	
2505CL-141			147	6/11/18	28	12.44	75,950	<b>6110</b>	
2505CL-142			146	6/11/18	28	12.57	76,210	<b>6070</b>	
2505CL-143									
2505CL-144									

### 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