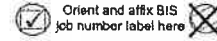




TR3: Technical Report
Concrete Design Mix
Must be typewritten.



The TR3 is required prior to permit

1 Location Information Required for all applications.

House No(s) 238 Street Name Hall Street
Borough Brooklyn Block 1918 Lot 51 BIN CB No.

2 Applicant Information - Licensed Concrete Testing Lab Required for all applications.

Director Last Name Dietrich Director First Name Kurt Director Middle Initial H
Business Name All Island Testing Associates, Inc Business Telephone (631) 273-5717
Business Address 75B Pine Aire Drive Business Fax (631) 273-2457
City Bay Shore State NY Zip 11706 Mobile Telephone
E-Mail allislandtesting@aol.com
Director's Lic. Number 070677 ☒ P.E. ☐ R.A. Concrete Testing Lab Lic. Number 84

3 Strength Requirements and Design Required for all applications. Attach Trial Mixture Report and/or Field Experience Results.

	Mix #1	Mix #2	Mix #3			
Method of Determining Proportions (Trial Mixture and/or Field Experience)	☒ Trial Mix ☐ Field Experience	☐ Trial Mix ☐ Field Experience	☐ Trial Mix ☐ Field Experience			
Date Trial Mixture Performed	9/6/14					
Specified Strength (f' c)	4000					
Required Strength (f' cr)	5200					
Specified Test Age (Days)	28					
	Material Type	Material Source	ASTM Standard			
Cementitious #1 (lbs)	I/II	Lehigh	C-150	330 lbs.	lbs.	lbs.
Cementitious #2 (lbs)	GGBFS	Lehigh	C-989	220 lbs.	lbs.	lbs.
Cementitious #3 (lbs)				lbs.	lbs.	lbs.
Fine Aggregate (lbs)	Sand	East Coast Mlnes	C-33	1444 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	#57 Stone	Tilcon	C-33	1750 lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)				lbs.	lbs.	lbs.
Coarse Aggregate #3 (lbs)				lbs.	lbs.	lbs.
Amount of Water (gals)	City	City	C-94	28.8 gals.	gals.	gals.
Admixture #1 (oz)	MBAE-90	BASF	C-260	2.8 oz	oz	oz
Admixture #2 (oz)	Glenium 7620	BASF	C-494	27.5 oz	oz	oz
Admixture #3 (oz)	Z-60	BASF	C-494	11.0 oz	oz	oz
Other						
Water-Cement Ratio				0.437		
Slump/Spread (inches ± tolerance)				7 ± 1	±	±
Air Content (% ± tolerance)				5.5 % ± 1.5	% ±	% ±
Unit Weight (lbs./ft ³)				147.8 lbs./ft ³	lbs./ft ³	lbs./ft ³

4 Concrete Testing Lab Director's Statement and Signature *Required for all applications.*

I hereby state that the above information is correct and complete to the best of my knowledge and that the above tests were performed in accordance with all Administrative Code Provisions and Departmental Rules, Regulations and Directives.

Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both.

It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by imprisonment or fine or both.

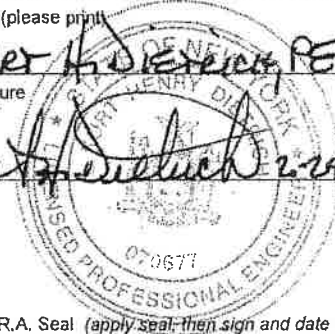
Name (please print)

Kurt H. Diener, PE

Signature

Date

Kurt H. Diener 2-24-15



P.E. / R.A. Seal (apply seal, then sign and date over seal)

5 Concrete Producer's Statement and Signature *Required for all applications. Must be filled out by Owner of Production Facility.*

I certify that the material type and source in section 3 above are available at my facility and that I will use such materials to produce the concrete mix(es) specified in section 3. I further certify that I will produce and deliver such mix(es) to the project site in accordance with the applicable code provisions of the NYC construction codes and that such mix(es) are appropriate for the placement conditions for the project identified in section 1 above (BC 1905.8.2).

Name (print)

DAMIANO ZUNINO

Title

VP

Signature

[Signature]

Date

2-26-15

NRMCA Certification Expiration Date (BC 1095.8.2) 5-22-16

Business Name Xtreme Ready Mix

Business Telephone 718-739-3380

Business Address 105-14 148th Street

Business Fax: 718-739-3387

City Jamaica

State NY

Zip 11435

6 Design Applicant's Statement and Signature *Required for all applications. Must be filled out by P.E./R.A. responsible for plans.*

I certify I have reviewed the concrete design mix(es) reported by the licensed testing lab and found them to be in compliance with the approved construction documents (BC 1905.6).

Name (please print)

Signature

Date

RONEN SHARON
3.5.15

P.E. / R.A. Seal (apply seal, then sign and date over seal)

**7 Building Owner's Statement and Signature** *Required for all applications.*

Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both. It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by a fine or imprisonment, or both. I understand that if I am found after hearing to have knowingly or negligently falsified or allowed to be falsified any certificate, form, signed statement, application, report or certification of the correction of violation required under the provisions of this code or of a rule of any agency, I may be barred from filing further applications or documents with the Department.

Name (print)

E.I. Hamway

Title

Authorized member

Signature

[Signature]

Date

3-3-15

ALL ISLAND TESTING ASSOCIATES, INC.

NYC DOB Lab #84
75B Pine Aire Drive, Bay Shore, NY 11706
Phone (631) 273-5717, Fax (631) 273-2457
XTREME22415

February 24, 2015

CLIENT: **Xtreme Ready Mix**
105-14 148th Street
Jamaica, NY 11435

PROJECT: **238 Hall Street, Brooklyn**

REQUIRED for: 4000 PSI + 1200 PSI
TYPE: Pump, A/E, MRWR

CONCRETE SUPPLIER: Xtreme Ready Mix

The following materials were submitted by the concrete supplier as typical of those proposed to be for this project.

CEMENT: Lehigh Type I/II, ASTM C-150
G.G.B.F.: Lehigh ASTM C-989
SAND: East Coast Mines, ASTM C-33
STONE: Tilcon, ASTM C-33
ADMIXTURE: MBAE-90 (C-260), Glenium 7620 & Z-60 (C-494) – BASF

GRADATION TEST

<u>SAND</u>		<u>#57 STONE</u>	
<u>SIEVE SIZE</u>	<u>PERCENT PASSING</u>	<u>SIEVE SIZE</u>	<u>PERCENT PASSING</u>
3/8	100.0		
4	96.9	1"	100.0
8	85.6	1/2	41.2
16	73.2	#4	7.8
30	53.2	#8	2.2
50	21.2	#16	.01
100	4.7		

F.M. 2.75
S.G. 2.64
U.W.D.R. 83.48
Colormetric Test. Plate No. 1

S.G. - 2.81

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Phone (631) 273-5717, Fax (631) 273-2457
Xtreme22415

Xtreme22415

DRIED WEIGHTS PER CUBIC YARD PUMP

MIX NO.	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
TRIAL MIX DATE:	9/6/14	9/6/14	9/6/14	9/6/14
CEMENT (lbs)	288	312	330	351
G.G.B.F. (lbs)	192	208	220	234
SAND (lbs)	1500	1465	1444	1398
STONE (lbs)	1750	1750	1750	1750
MBAE-90 (oz)	2.4	2.7	2.8	2.9
% AIR	5.5	5.6	5.4	5.7
Z-60 (oz)	9.6	10.4	11.0	11.7
GLENIUM 7620 (oz)	21.6	23.4	27.5	29.2
GALS OF WATER	28.4	28.6	28.8	28.9
SLUMP (")	7.25	7.5	7.5	7.75
W/C+P RATIO	.497	.46	.437	.41
UNIT WEIGHT (#/ft ³)	147.0	147.2	147.8	147.5
YIELD	26.97	26.94	26.94	26.94

COMPRESSIVE STRENGTHS (6" x 12" Cylinders)

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
7 DAY	3239	3621	4118	4889
P.S.I.	3389	3513	4212	4910
	<u>3421</u>	<u>3592</u>	<u>4335</u>	<u>4929</u>
AVERAGE	3349	3575	4221	4909
28 DAY	4687	5001	5514	6001
P.S.I.	4318	4896	5475	5941
	<u>4452</u>	<u>4995</u>	<u>5618</u>	<u>5815</u>
AVERAGE	4485	4964	5535	5918

Based on the above, we suggest Mix No. 3 for 4000 P.S.I. at a maximum slump of 7 ± 1 ".

REMARKS: Chemical Admixtures might be adjusted as needed depending on Site and weather conditions following manufacturer's recommendations and upon approval of the Engineer of Record.



Respectfully Submitted,
ALL ISLAND TESTING

Daniel Quick

Daniel Quick

NOTE: These Trial Batches are Specific Only to the Listed Project & Concrete Supplier and are NOT VALID without the signature of the Engineer of Record.

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Xtreme22415

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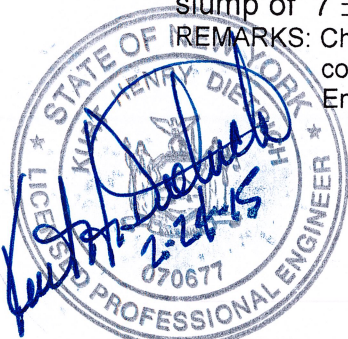
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