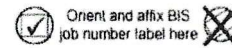


**TR3: Technical Report
Concrete Design Mix**
Must be typewritten.



The TR3 is required prior to permit

1 Location Information *Required for all applications.*

House No(s) 125 Street Name Bloomingdale Road
Borough Staten Island Block 6998 Lot 23 BIN 5158600 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-
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				7/6/21		
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	Hercules/Buzzi	C-150	575 lbs.	lbs.	lbs.
Cementitious #2 (lbs)	G.G.B.F.S.	Holcim (Grade 120)	C-989	0 lbs.	lbs.	lbs.
Cementitious #3 (lbs)				lbs.	lbs.	lbs.
Fine Aggregate (lbs)	Sand	Brickwall	C-33	1466 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	#57 Stone	Kingston Trap Rock	C-33	1720 lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)	Lightweight Is Dry	Norlite	C-330	0 lbs.	lbs.	lbs.
Coarse Aggregate #3 (lbs)				lbs.	lbs.	lbs.
Amount of Water (gals)	City	City	C-94	32.0 gals.	gals.	gals.
Admixture #1 (oz)	Viscocrete 2100	SIKA	C-494	25.9 oz	oz	oz
Admixture #2 (oz)	Sika Air	SIKA	C-260	2.0 oz	oz	oz
Admixture #3 (oz)	Sikatard 440	SIKA	C-494	0 oz	oz	oz
Other	Sikament 475	SIKA	C-494	11.5 oz		
Water-Cement Ratio				.46		
Slump/Spread (inches ± tolerance)				7 ± 1	±	±
Air Content (% ± tolerance)				6.0 %± 1.5	%±	%±
Unit Weight (lbs./ft ³)				150.2 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. DIETRICH

Signature

Date

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) Joseph Garofalo

Signature

Date

Title President

NRMCA Certification Expiration Date (BC 1095.8.2)

Business Telephone 718-733-3648

Business Fax 929-364-0433

Zip 10314

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 1905.8).

Name (please print)

Signature

Date

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 fine or imprisonment, or both. I understand that if I am found after having 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)

Shloma Eidelman

Title

Executive Director

Signature

Date

7/28/22

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

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DRIED WEIGHTS PER CUBIC YARD

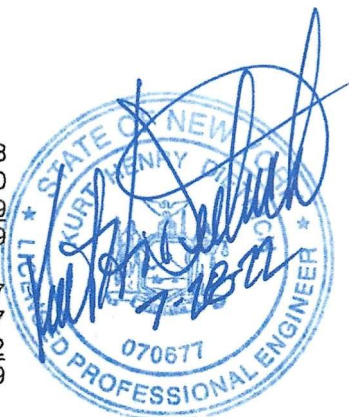
PUMP

MIX NO.	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
TRIAL MIX DATE:	7/6/21	7/6/21	7/6/21	7/6/21
CEMENT (lbs)	470	510	575	600
SAND (lbs)	1553	1520	1466	1445
STONE (lbs)	1720	1720	1720	1720
SIKA AIR (oz)	1.6	1.8	2.0	2.1
% AIR	6.5	6.2	5.5	6.5
GALS OF WATER	32.0	32.0	32.0	32.0
VISCOCRETE 2100(oz)	22.5	25.5	25.9	33.0
SIKAMENT 475(oz)	14.1	10.2	11.5	0
SLUMP (")	7.0	7.5	7.25	8.25
W/C RATIO	.57	.52	.46	.44
UNIT WEIGHT (#/ft ³)	148.5	149.0	150.2	149.0
YIELD	27.13	27.05	26.86	27.13

COMPRESSIVE STRENGTHS

(4" x 8" Cylinders)

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
7 DAY	4203	4508	4893	5308
P.S.I.	4133	4390	5117	5620
	<u>4208</u>	<u>4575</u>	<u>5013</u>	<u>5389</u>
AVERAGE	4181	4491	5008	5439
28 DAY	4947	5466	5985	6477
P.S.I.	4741	5329	6066	6437
	<u>4947</u>	<u>5158</u>	<u>5989</u>	<u>6582</u>
AVERAGE	4878	5318	6013	6499



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

John Filiberto

NOTE: These Trial Batches are Specific Only to the Listed Project & Concrete Supplier and are NOT VALID without a signature in ink. Any alterations would be considered fraudulent and could result in legal consequences.

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
M72822

July 28, 2022

CLIENT: **Mesivth Tifereth Jerusalem**
1870 Drumgoole Road East
Staten Island, NY 10309

PROJECT: **125 Bloomingdale Road, Staten Island**

REQUIRED *f'cr*: 4000 PSI In accordance with ACI

TYPE: Pump, A/E, MRWR, Hydration Control,
Straight Cement

CONCRETE SUPPLIER: Richmond Ready Mix

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

CEMENT: Hercules/Buzzi Type I/II, ASTM C-150
G.G.B.F.S.: Holcim Grade 120, ASTM C-989
SAND: Brickwall, ASTM C-33
STONE: Kingston-Trap Rock Industries, ASTM C-33
ADMIXTURE: Sika Air 160 (C-260) Sikament 475 &
Viscocrete 2100(C-494) – Sika

GRADATION TEST			
SAND		#57 STONE	
SIEVE SIZE	PERCENT PASSING	SIEVE SIZE	PERCENT PASSING
3/8	100.0		
4	95.5	1"	100.0
8	89.8	1/2	26.3
16	79.8	#4	1.4
30	58.6	#8	1.2
50	29.7	#16	.2
100	3.2		
F.M.....	2.41		
S.G.....	2.64	S.G. -	2.98
Colormetric Test.....	Plate No. 1		