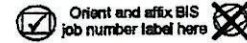




**TR3: Technical Report
Concrete Design Mix**
Must be typewritten.



The TR3 is required prior to permit

1 Location Information <i>Required for all applications.</i>						
House No(s) 247-31		Street Name 39 AVENUE		(work only 06-25-2021 onwards)		
Borough QUEENS		Block 8162	Lot 427	BIN 4169882	CB No. 411	

2 Applicant Information - Licensed Concrete Testing Lab <i>Required for all applications.</i>						
Director Last Name LANGER		Director First Name GLEN		Director Middle Initial J.		
Business Name S&S CONCRETE AND SOIL TESTING				Business Telephone (718) 961-1000		
Business Address 20-39 129th Street				Business Fax 718 962 1000		
City College Point		State N.Y	Zip 11356	Mobile Telephone		
E-Mail SSC2039@gmail.com						
Director's Lic. Number 070976		☒ P.E. ☐ R.A.		Concrete Testing Lab Lic. Number 000082		

3 Strength Requirements and Design <i>Required for all applications. Attach Trial Mixture Report and/or Field Experience Results.</i>						
Method of Determining Proportions (Trial Mixture and/or Field Experience)				Mix #1	Mix #2	Mix #3
☒ Trial Mix ☐ Field Experience				☒ Trial Mix ☐ Field Experience	☒ Trial Mix ☐ Field Experience	☐ Trial Mix ☐ Field Experience
Date Trial Mixture Performed				01-08-21		
Specified Strength (f' c)				4000 PSI		
Required Strength (f' cr)				5200 PSI		
Specified Test Age (Days)				28		

	Material Type	Material Source	ASTM Standard			
Cementitious #1 (lbs)	CEMENT	HOLCIM LAFARGE	ASTM C-150	580 lbs.	lbs.	lbs.
Cementitious #2 (lbs)				lbs.	lbs.	lbs.
Cementitious #3 (lbs)				lbs.	lbs.	lbs.
Fine Aggregate (lbs)	SAND	L.I NATURAL	ASTM C-33	1398 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	STONE	TILCON	ASTM C-33	1700 lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)				lbs.	lbs.	lbs.
Coarse Aggregate #3 (lbs)				lbs.	lbs.	lbs.
Amount of Water (gals)	WATER	CITY	ASTM C-94	31.5 gals.	gals.	gals.
Admixture #1 (oz)	AIR	AEA 90	ASTM C-260	2.9 oz	oz	oz
Admixture #2 (oz)	HRWR	PLASTOL 5000	ASTM C-494	31.9 oz	oz	oz
Admixture #3 (oz)				oz	oz	oz
Other	Tags 9920-9967					
Water-Cement Ratio				0.45		
Slump/Spread (inches ± tolerance)				8.0 ± 1.0	±	±
Air Content (% ± tolerance)				6.0 % ± 1.5	% ±	% ±
Unit Weight (lbs./ft³)				145.9 lbs./ft³	lbs./ft³	lbs./ft³



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.

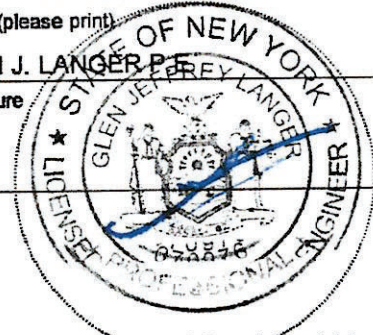
Name (please print)

GLEN J. LANGER P.E.

Signature

Date

06-25-21



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)	Title	
Signature	Date	NRMCA Certification Expiration Date (BC 1095.8.2)
Business Name BEST CONCRETE MIX		Business Telephone (718) 463-5500
Business Address 35-10 COLLEGE POINT BOULEVARD		Business Fax: (718) 762-0804
City FLUSHING	State NY	Zip 11354

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



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) Guoqiang Zhang

Title

Signature

Date

6/30/2021

S & S CONCRETE & SOIL TESTING

20-39 129TH ST, COLLEGE POINT, NEW YORK 11356

PH: (718) 961-1000 FAX (718) 961-1002

Email: SSC2039@gmail.com

N.Y.C. D.O.B. License #82

CONCRETE MIX DESIGN REPORT

Client: LEO	Report Date: 06-25-2021
Project Address: 247-31 39 TH AVENUE, QUEENS	Trial Mix Date: 01-08-2021
(work only 06/25/2021 onwards)	Expiration Date: 01-08-2023
Specified Strength f'_c-f'_{cr}: 4,000 + 1200 A.E.	Mix No.: BE8004
Mix Type: PUMP	Tested By: S&S CONCRETE & SOIL TESTING
Concrete Plant Supplier: Best Concrete Corp.	Delivered By: Best Concrete Corp.

4,000 psi + 1200 A.E. Concrete Pump @ 28 days

Recommended Mix Design #3	
Cement (lbs.)	580
Slag (lbs.)	-
Fly Ash (lbs.)	-
Microsilica (lbs.)	-
Fine Aggregate (lbs.)	1398
Coarse Aggregate (lbs.)	1700
Water (gals.)	31.5
Admixture 1 (oz.)	2.9
Admixture 2 (oz.)	31.9
Admixture 3 (oz.)	
Slump (in.)	8.00 ± 1.00
Air Content (%)	6.00 ± 1.50
Unit Wt. P.C.F.	145.9
W/C Ratio	0.45

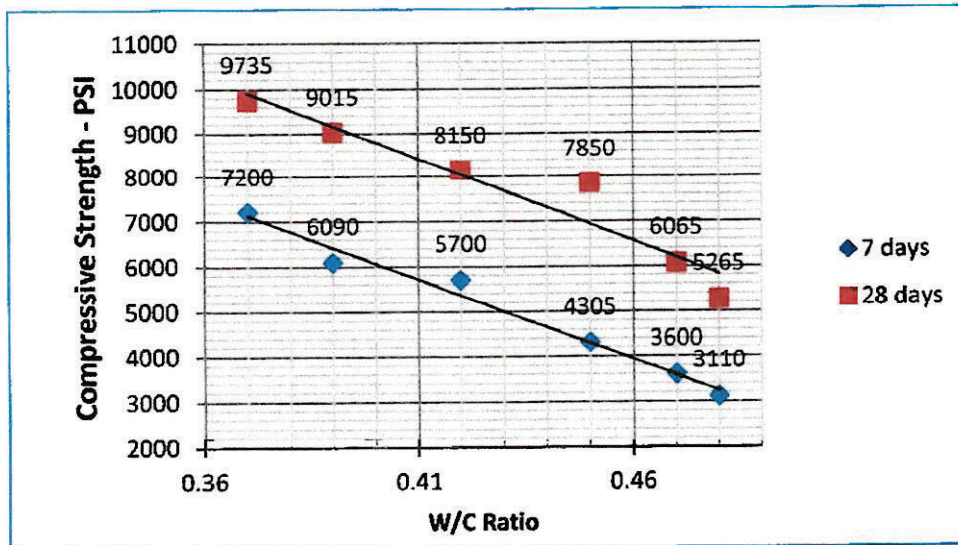
Product	Type & Source	ASTM	S.G.
Cement	Holcim LaFarge	ASTM C150	3.15
Slag	-	ASTM C989	2.89
Fly Ash	-	ASTM C618	
Silica Fume	-	ASTM C1240	
Fine Aggregate	L.I. Natural	ASTM C33	2.63
Coarse Aggregate	Tilcon	ASTM C33	2.81
Water	NYC Potable	ASTM C94	1.00
Admixture 1	AEA 90	ASTM C260	1.03
Admixture 2	PLASTOL 5000	ASTM C494	1.06
Admixture 3	-	ASTM C494	-

Note: Batch tickets must accompany every load of concrete.

Owner must supply test results to Best ASAP.

Only supplier can adjust admixture with field test data.

Per NYC DOB bulletin 2010-010 dated 06-18-10.



Glen J. Langer, P.E.

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N.Y.C. D.O.B. License #82

CONCRETE MIX DESIGN REPORT

Client: LEO	Report Date: 06-25-2021	Mix No.: BE8004
Project Address: 247-31 39 TH AVENUE, QUEENS	Trial Mix Date: 01-08-2021	
(work only 06/25/2021 onwards)	Expiration Date: 01-08-2023	
Specified Strength f'_c-f'_{cr}: 4,000 + 1200 A.E	Tested By: S&S CONCRETE & SOIL TESTING	
Concrete Plant Supplier: Best Concrete Corp.	Delivered By: Best Concrete Corp.	

4,000 psi + 1200 A.E. Concrete Pump@ 28 days

Aggregate Gradation Passing Percent Finer

Sieve Size	Fine Aggregates	#67 Stone
2"		
1 1/2"		
1"		100
3/4"		95.7
1/2"		-
3/8"	100	46.1
#4	99.3	8.4
#8	93.0	0.9
#16	77.6	
#30	52.8	
#50	25.0	
#100	1.2	
FM	2.51	

Unit Weight Dry Rodded

101.2

100.0

Specific Gravity

2.63

2.81

TRIAL - BATCH WEIGHTS (lbs. / cubic yards)

Mix #	Yield	Cement	Slag	Fly Ash	Silica	F.A	C.A *	Water	Adx. 1	Adx. 2	Adx. 3	Unit Wt.	Slump (in)	W/C	Air %
1	27.00	525	-	-	-	1477	1700	30.0	3.6	26.3	-	143.9	7.50	0.48	5.40
2	27.00	550	-	-	-	1434	1700	31.0	3.0	27.5	-	144.7	7.75	0.47	5.20
3	27.00	580	-	-	-	1398	1700	31.5	2.9	31.9	-	145.1	8.25	0.45	5.60
4	27.00	630	-	-	-	1346	1700	32.0	3.3	34.7	-	143.9	8.25	0.42	5.30
5	27.00	680	-	-	-	1304	1700	32.0	3.2	37.4	-	144.3	8.00	0.39	5.70
6	27.00	730	-	-	-	1160	1700	32.0	3.9	43.8	-	145.6	8.25	0.37	4.90

COMPRESSIVE STRENGTH RESULTS (ASTM C39) - P.S.I. (4" x 8" Cylinders)

Mix #	W/C Ratio	7 Days Results		Average	28 Days Results			Average	56 Days Results			Average
1	0.48	3180	3040	3110	5345	5270	5190	5265	N/A	N/A	N/A	N/A
2	0.47	3560	3640	3600	5960	6000	6240	6065	N/A	N/A	N/A	N/A
3	0.45	4230	4380	4305	7860	7780	7910	7850	N/A	N/A	N/A	N/A
4	0.42	5790	5610	5700	8155	8275	8025	8150	N/A	N/A	N/A	N/A
5	0.39	6055	6130	6090	8845	9130	9075	8915	N/A	N/A	N/A	N/A
6	0.37	7145	7260	7200	9670	9845	9700	9735	N/A	N/A	N/A	N/A

Tags Used: S & S 9920 - 9967

Sample Broken By: ACI #: Jorge Lopez ACI # 01208239

Euclid supply all admixtures

Cement Picked Up From: Best Concrete Corp.

Glen J. Langer, P.E.

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