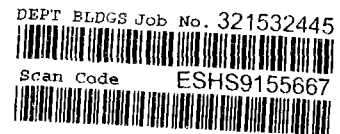




TR3: Technical Report Concrete Design Mix

Must be typewritten



The TR3 is required prior to permit

1 Location Information Required for all applications

House No(s) 5614 Street Name 3 AVENUE (work only 08-28-2017 onwards)
Borough BROOKLYN Block 837 Lot 42 BIN 3015229 CB No. 307

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

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) 961-1002
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 82

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	09-17-2016		
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	LEHIGH I/II	ASTM C-150	360	lbs	lbs.	lbs.
Cementitious #2 (lbs)	SLAG	LEHIGH	ASTM C-989	240	lbs.	lbs.	lbs.
Cementitious #3 (lbs)					lbs	lbs.	lbs.
Fine Aggregate (lbs)	SAND	L I NATURAL	ASTM C-33	1247	lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	STONE	NY SAND & STONE	ASTMC-33	1710	lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)					lbs.	lbs.	lbs.
Coarse Aggregate #3 (lbs)					lbs.	lbs.	lbs.
Amount of Water (gals)	WATER	NYC POTABLE	ASTMC-94	32 0	gals.	gals.	gals.
Admixture #1 (oz)	AIR	SIKA AIR	ASTMC-260	4 1	oz	oz	oz
Admixture #2 (oz)	HRWR	VISCOCRETE 2100	ASTMC-494	30 0	oz	oz	oz
Admixture #3 (oz)					oz	oz	oz
Other	Tags 23182-23222						
Water-Cement Ratio				0 44			
Slump/Spread (inches ± tolerance)				8 0 ± 1 0	±	±	±
Air Content (% ± tolerance)				6 0 % ± 1 5	% ±	% ±	% ±
Unit Weight (lbs./ft ³)				141.6 lbs./ft ³	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

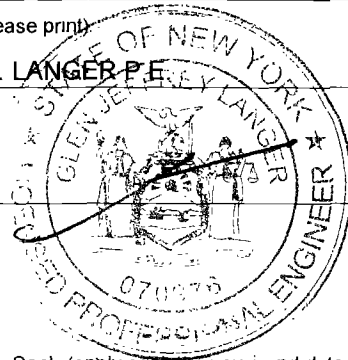
Name (please print)

GLEN J. LANGER P.E.

Signature

Date

08-28-17



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)

Gerard Borganio

Title

Member

Signature

Gerard Borganio

NRMCA Certification Expiration Date (BC 1095.8.2) 03-24-18

Business Name STILLWELL READY MIX

Business Telephone (718) 373-3364

Business Address 2543 STILLWELL AVENUE

Business Fax (718) 265-7089

City BROOKLYN

State NY

Zip 11223

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)

JING WANG

Signature

Date

08-29-17



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)

JENNIFER LY

Title

OWNER

Signature

JL

Date

8/30/2017

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: MOHAMMAD	Report Date: 08-28-2017
Project Address: 5614 3 RD AVENUE, BROOKLYN	Trial Mix Date: 09-17-2016
(work only 08/28/2017 onwards)	Expiration Date: 09-17-2018
Specified Strength $f'c-f'cr$: 4,000+ 1200 A.E.	Mix No.: STW6595
Mix Type: pump	Tested By: S&S CONCRETE & SOIL TESTING
Concrete Plant Supplier: Stillwell Ready Mix	Delivered By: S&S CONCRETE & SOIL TESTING

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

Remix Concrete Mix Design # 7	
Cement (lbs.)	360
Slag (lbs.)	240
Fly Ash (lbs.)	-
Microsilica (lbs.)	-
Fine Aggregate (lbs.)	1247
Coarse Aggregate (lbs.)	1710
Water (gals.)	32.0
Admixture 1 (oz.)	4.1
Admixture 2 (oz.)	30.0
Admixture 3 (oz.)	-
Slump (in.)	8.00 ± 1
Air Content (%)	6.00 ± 1.5
Unit. Wt. P.C.F.	141.6
W/C Ratio	0.44

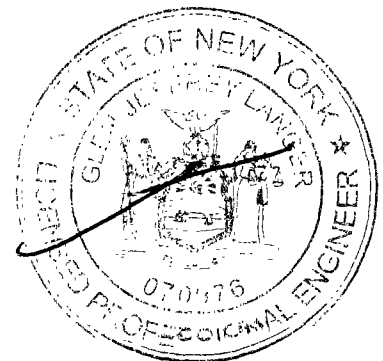
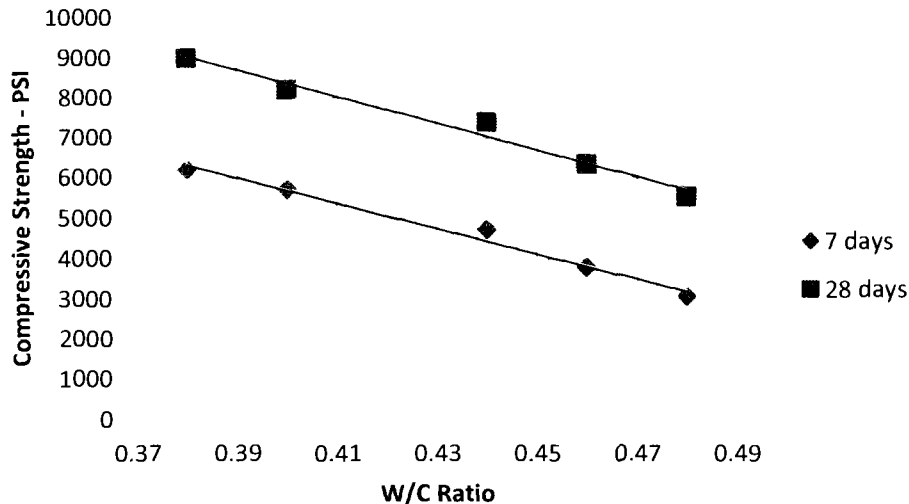
Product	Type & Source	ASTM	S.G.
Cement	Lehigh I / II	ASTM C150	3.15
Slag	Lehigh	ASTM C989	2.88
Fly Ash	-	ASTM C618	-
Silica Fume	-	ASTM C1240	-
Fine Aggregate	L.I. Natural	ASTM C33	2.63
Coarse Aggregate	N.Y Sand & Stone	ASTM C33	2.65
Water	NYC Potable	ASTM C94	1.00
Admixture 1	Sika Air	ASTM C260	1.03
Admixture 2	VISVOCRETE 2100	ASTM C494	1.06
Admixture 3	-	-	-

Note: Batch tickets must accompany every load of concrete.

Owner must supply test results to Stillwell ASAP.

Only supplier can adjust admixture with field test data.

Per NYC DOB bulletin 2010-018 dated 06-18-10.



Glen J. Langer, P.E.

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CONCRETE MIX DESIGN REPORT

Client: MOHAMMAD	Report Date: 08-28-2017	Mix No.: STW6595
Project Address: 5614 3 RD AVENUE, BROOKLYN	Trial Mix Date: 09-17-2016	
(work only 08/28/2017 onwards)	Expiration Date: 09-17-2018	
Specified Strength f'c-f'cr: 4,000 + 1200 A.E. pump	Tested By: S&S CONCRETE & SOIL TESTING	
Concrete Plant Supplier: Stillwell Ready Mix	Delivered By: S&S CONCRETE & SOIL TESTING	

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

Aggregate Gradation Passing Percent Finer

Sieve Size	Fine Aggregates	#57 Stone
2"		
1 1/2"		
1"		100
3/4"		96.0
1/2"		-
3/8"	100	45.8
#4	99.1	9.9
#8	97.5	1.2
#16	74.6	
#30	52.0	
#50	25.0	
#100	1.3	
FM	250.5	

Unit Weight Dry Rodded

100.2

101.4

Specific Gravity

2.63

2.65

Colometric Test

Plate #1

TRIAL MIXES – DRY BATCH WEIGHTS (lbs. / cubic yards)

Point	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	21.01	336	224	-	-	1281	1710	32.0	4.8	22.4	-	141.9	7.50	0.47	6.10
2	27.00	360	240	-	-	1247	1710	32.0	4.1	30.0	-	140.6	8.00	0.44	5.90
3	27.01	396	264	-	-	1195	1710	32.0	5.0	36.3	-	141.5	7.75	0.40	5.70
4	27.04	420	280	-	-	1160	1710	32.0	5.7	38.5	-	142.3	7.50	0.38	6.20
5	26.99	450	300	-	-	1117	1710	32.0	5.3	41.3	-	141.0	8.25	0.36	5.30

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

Point	W/C Ratio	7 Days Results		Average	28 Days Results			Average	56 Days Results			Average
1	0.47	2960	3120	3040	5570	5405	5580	5515	N/A	N/A	N/A	N/A
2	0.44	3800	3760	3780	6400	6245	6375	6340	N/A	N/A	N/A	N/A
3	0.40	4655	4780	4715	7500	7230	7455	7395	N/A	N/A	N/A	N/A
4	0.38	5690	5710	5700	8250	8340	8070	8220	N/A	N/A	N/A	N/A
5	0.36	6240	6125	6180	9030	8860	9150	9010	N/A	N/A	N/A	N/A

Note: Sample Broken By: JORGE LOPEZ ACI#01208239

Sika Supplied Admixtures.

Tags Used: S&S 23182-23222

Sample Supplied By: Stillwell Ready Mix.

Cement Picked Up From: Stillwell Ready Mix.

