



TR3: Technical Report
Concrete Design Mix
Must be typewritten.

DEPT BLDGS Job No. 320591800
Scan Code ESHS5890103

The TR3 is required prior to permit

1 Location Information *Required for all applications.*

House No(s) 744 A Street Name WILLOUGHBY AVENUE (work only 03-23-2016 onwards)

Borough BROOKLYN Block 1591 Lot 22 BIN 3324966 CB No. 303

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 & 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	10-02-2014		
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 1-11	ASTM C-150	600 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	1340 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	STONE	TILCON NY	ASTMC-33	1720 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	3.9 oz	oz	oz
Admixture #2 (oz)	HRWR	VISCOCRETE 2100	ASTMC-494	27.0 oz	oz	oz
Admixture #3 (oz)			-	- oz	oz	oz
Other	Tags 14233-14272					
Water-Cement Ratio				0.44		
Slump/Spread (inches $\pm$ tolerance)				8 $\pm$ 1	$\pm$	$\pm$
Air Content (% $\pm$ tolerance)				6 % $\pm$ 1.5	% $\pm$	% $\pm$
Unit Weight (lbs./ft ³)				142.3 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

03-23-16



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) LINDA GISONDA

Title PRESIDENT

Signature

Date

03/30/16

NRMCA Certification Expiration Date (BC 1095.8.2) 10-15-17

Business Name TEC-CRETE READY MIX INC.

Business Telephone 718-526-1700

Business Address 4673 METROPOLITAN AVENUE

Business Fax: 0

City RIDGEWOOD

State NY

Zip 11385

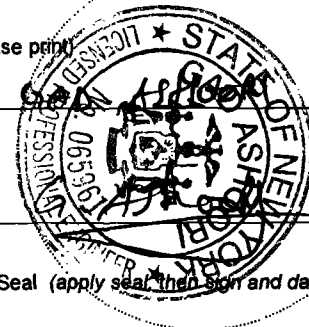
6 Design Applicant's Statement and Signature Required for all applications. Must be filled out by P.E./R.A. responsible for plans.

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)

HAIM LEVI

Title

Owner

Signature

Date

3/31/16

S&S CONCRETE & SOIL TESTING

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

PHONE: (718) 961-1000

FAX: (718) 961-1002

Email: SSC2039@gmail.com

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

CONCRETE MIX DESIGN REPORT

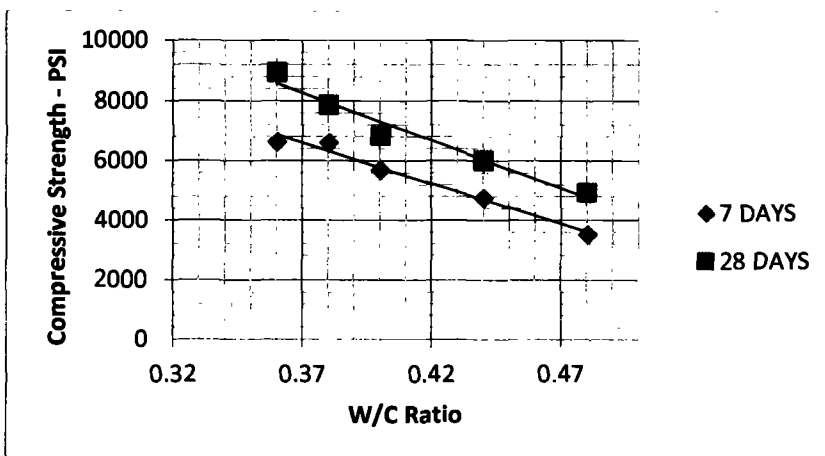
Client: ANN MARIE	Report Date: 03-23-2016
Project Address: 744 A WILLOUGHBY AVENUE, BROOKLYN	Trial Mix Date: 10-02-2014
(work only 03-23-2016 onwards)	Expiration Date: 10-02-2016
Specified Strength f'_c - f'_{cr} : 4,000 + 1200 A.E.	Mix No.: TEC7009
Mix Type: Pump	Tested By: S&S CONCRETE & SOIL TESTING
Concrete Plant Supplier: Tec-Crete Ready Mix	Delivered By: S&S CONCRETE & SOIL TESTING

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

Cement (lbs.)	600
Slag (lbs.)	-
Fly Ash (lbs.)	-
Microsilica (lbs.)	-
Fine Aggregate (lbs.)	1340
Coarse Aggregate #8 (lbs.)	-
Coarse Aggregate #67 (lbs.)	1720
Water (gals.)	32.0
Admixture 1 (oz.)	3.9
Admixture 2 (oz.)	-
Admixture 3 (oz.)	27.0
Slump (in.)	8.00 ± 1
Air Content (%)	6.00 ± 1.5
Unit Wt. P.C.F.	142.3
W/C Ratio	0.44

Cement	LEHIGH 1-11	ASTM C150	3.15
Slag	-	-	-
Fly Ash	-	ASTM C618	2.20
Silica Fume	-	-	-
Fine Aggregate	L.I NATURAL	ASTM C33	2.63
Coarse Aggregate	TILCON NY	ASTM C33	2.81
Coarse Aggregate	TILCON NY	ASTM C33	2.81
Water	NYC POTABLE	ASTM C94	1.00
Admixture 1	SIKA AIR	ASTM C260	1.03
Admixture 2	-	ASTM C494	1.10
Admixture 3	VISCOCRETE 2100	ASTM C494	1.10

Note: Batch tickets must accompany every load of concrete.
Owner must supply test results to Tec-Crete Ready Mix 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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CONCRETE MIX DESIGN REPORT

Client: ANN MARIE	Report Date: 03-23-2016	Mix No.: TEC7009
Project Address: 744 A WILLOUGHBY AVENUE, BROOKLYN	Trial Mix Date: 10-02-2014	
(work only 03-23-2016 onwards)	Expiration Date: 10-02-2016	
Specified Strength f'c-f'cr: 4,000 + 1200 A.E. Pump	Tested By: S&S CONCRETE & SOIL TESTING	
Concrete Plant Supplier: Tec-Crete Ready Mix	Delivered By: S&S CONCRETE & SOIL TESTING	

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

Aggregate Gradation Passing Percent Finer

2"			
1 1/2"			
1"			100
3/4"			95.0
1/2"			-
3/8"	100		34.4
#4	99.3		9.4
#8	96.0		1.8
#16	79.4		
#30	54.1		
#50	14.9		
#100	1.8		
FM	254.5		

Unit Weight Dry Rodded

99.7

101.4

Specific Gravity

2.63

2.65

Colometric Test

Plate #1

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

1	27.01	550	-	-	-	1360	-	1720	32.0	2.3	22.0	-	144.1	7.50	0.48	6.10
	27.00	600	-	-	-	1340	-	1720	32.0	3.9	27.0	-	143.5	8.00	0.44	6.25
3	27.00	660	-	-	-	1280	-	1720	32.0	4.6	33.0	-	145.0	8.25	0.40	5.90
4	27.00	700	-	-	-	1240	-	1720	32.0	5.1	35.0	-	143.9	7.25	0.38	5.10
5	27.00	750	-	-	-	1130	-	1720	32.0	4.4	41.3	-	144.6	7.75	0.36	5.40

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

1	0.48	3150	3940	3545	4850	5190	4810	4950	-	-	-	-	-	-	-	-
	0.44	4860	4680	4770	5670	5400	6995	6022	-	-	-	-	-	-	-	-
3	0.40	5730	5705	5718	6935	6845	6740	6840	-	-	-	-	-	-	-	-
4	0.38	6365	6870	6618	7890	7785	7990	7885	-	-	-	-	-	-	-	-
5	0.36	6530	6745	6635	8845	9120	8900	8955	-	-	-	-	-	-	-	-

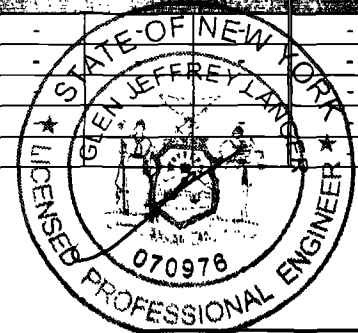
Note: Sample Broken By: ACI #: JORGE LOPEZ/ ACI # 01208239

Sika Supplied Air & Viscocrete

Tags Used: GTSM 14233 – GTSM 14272

Sample Supplied By: Tec-Crete Ready Mix

Cement Picked Up From: Tec-Crete Ready Mix



Glen J. Langer, P.E.