



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) 2461 Street Name BROADWAY (work only 01-06-2020 onwards)  
Borough MANHATTAN Block 39 Lot 10 BIN 1033583 CB No. 107

**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 (Tnal Mixture and/or Field Experience)	<input checked="" type="checkbox"/> Trial Mix <input type="checkbox"/> Field Experience	<input type="checkbox"/> Trial Mix <input type="checkbox"/> Field Experience	<input type="checkbox"/> Trial Mix <input type="checkbox"/> Field Experience
Date Tnal Mixture Performed	01-05-2019		
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	ESSEX I/II	ASTM C-150	354	lbs.	lbs.	lbs.
Cementitious #2 (lbs)	SLAG	LEHIGH	ASTM C-989	236	lbs.	lbs.	lbs.
Cementitious #3 (lbs)					lbs.	lbs.	lbs.
Fine Aggregate (lbs)	SAND	CORAM	ASTM C-33	1304	lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	STONE	RAWSON	ASTMC-33	1740	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	31.0	gals.	gals.	gals.
Admixture #1 (oz)	AIR	AEA-92	ASTM C260	3.9	oz	oz	oz
Admixture #2 (oz)	HRWR	PLASTOC 5000	ASTMC-494	30.0	oz	oz	oz
Admixture #3 (oz)					oz	oz	oz
Other	Tags 36629 - 36684						
Water-Cement Ratio				0.44			
Slump/Spread (inches $\pm$ tolerance)				8.0 $\pm$ 1.0	$\pm$	$\pm$	$\pm$
Air Content (% $\pm$ tolerance)				6.0 % $\pm$ 1.5	% $\pm$	% $\pm$	% $\pm$
Unit Weight (lbs./ft <sup>3</sup> )				144.2 lbs./ft <sup>3</sup>	lbs./ft <sup>3</sup>	lbs./ft <sup>3</sup>	lbs./ft <sup>3</sup>

**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

Signature

Date

01-06-20



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)

DANIEL MASTRORANDI

Title

VP

Signature

[Signature]

Date

1-7-2020

NRMCA Certification Expiration Date (BC 1095.8.2) 02-04-20

Business Name UNITED TRANSIT MIX

Business Telephone 718-416-3400

Business Address 318 BOERUM STREET

Business Fax: 718-416-4329

City BROOKLYN

State NY

Zip 11206

**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)

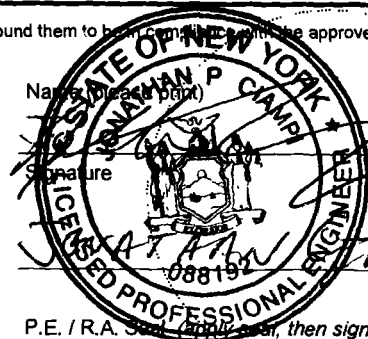
ANNA P. CLAMP

Signature

Date

1/14/2020

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)

ROBERT ROSENTHAL

Title

Principal

Signature

[Signature]

Date

1/16/2020

# S & S CONCRETE & SOIL TESTING

20-39 129<sup>TH</sup> ST, COLLEGE POINT, NEW YORK 11356

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

Email: [SSC2039@gmail.com](mailto:SSC2039@gmail.com)

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

## CONCRETE MIX DESIGN REPORT

<b>Client:</b> DEFELCO	<b>Report Date:</b> 01-06-2020
<b>Project Address:</b> 2461 BROADWAY NYC	<b>Trial Mix Date:</b> 01-05-2019
<b>(work only 01-06-2020 onwards)</b>	<b>Expiration Date:</b> 01-05-2021
<b>Specified Strength <math>f'_c</math>-<math>f'_{cr}</math>:</b> 4,000 psi + 1200 A.E.	<b>Mix No.:</b> UN8810
<b>Mix Type:</b> Pump	<b>Tested By:</b> S&S CONCRETE & SOIL TESTING
<b>Concrete Plant Supplier:</b> United Transit Mix	<b>Delivered By:</b> United Transit Mix

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

Cement (lbs.)	354
Slag (lbs.)	236
Fly Ash (lbs.)	-
	-
Fine Aggregate (lbs.)	1304
Coarse Aggregate (lbs.)	1740
Water (gals.)	31.0
Admixture 1 (oz.)	3.9
Admixture 2 (oz.)	30.0
Admixture 3 (oz.)	-
Slump (in.)	8.00 ± 1
Air Content (%)	6.00 ± 1.5
Unit. Wt. P.C.F.	144.2 ± 3.0 theoretical
Unit. Wt. P.C.F.	143.6 actual
W/C Ratio	0.44

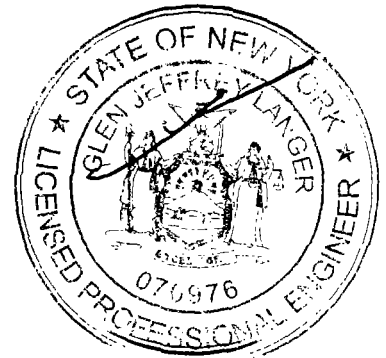
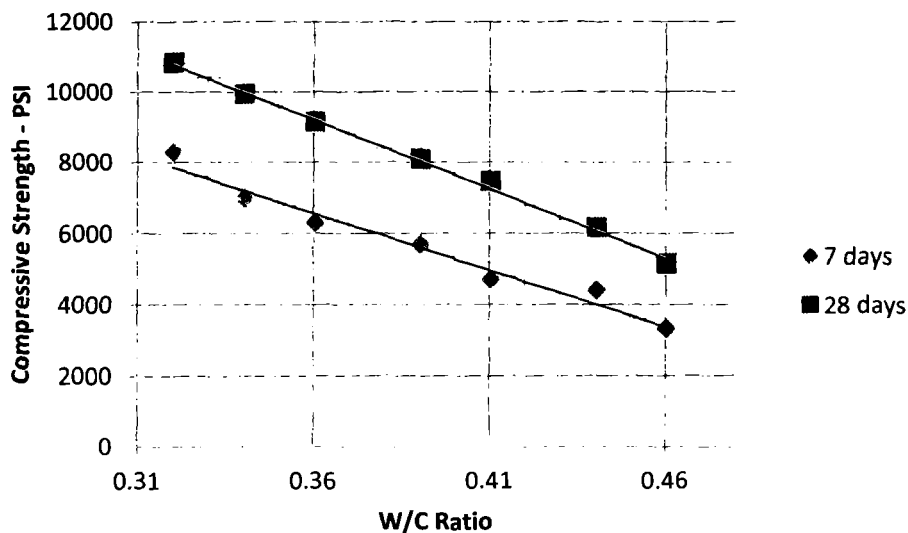
Cement	ESSEX I/II	ASTM C150	3.15
Slag	Lehigh	ASTM C989	2.89
Fly Ash	-	ASTM C618	
Silica Fume	-	ASTM C1240	
Fine Aggregate	Coram	ASTM C33	2.63
Coarse Aggregate	Rawson ¾"	ASTM C33	2.74
Water	NYC Potable	ASTM C94	1.00
Admixture 1	AEA- 92	ASTM C260	1.03
Admixture 2	PLASTOL 5000	ASTM C494	1.06
Admixture 3	-	-----	

Note: Batch tickets must accompany every load of concrete.

Owner must supply test results to United 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

<b>Client:</b> DEFELCO	<b>Report Date:</b> 01-06-2020	<b>Mix No.:</b> UN8810
<b>Project Address:</b> 2461 BROADWAY NYC	<b>Trial Mix Date:</b> 01-05-2019	
<b>(work only 01-06-2020 onwards)</b>	<b>Expiration Date:</b> 01-05-2021	
<b>Specified Strength <math>f'_c</math>-<math>f'_{cr}</math>:</b> 4,000 psi + 1200 A.E.Pump	<b>Tested By:</b> S&S CONCRETE & SOIL TESTING	
<b>Concrete Plant Supplier:</b> United Transit Mix	<b>Delivered By:</b> United Transit Mix	

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

**Aggregate Gradation Passing Percent Finer**

2"		
1 1/2"		
1"		100
3/4"		95.6
1/2"		-
3/8"	100	46.4
#4	99.2	7.3
#8	95.4	0.9
#16	73.6	
#30	49.8	
#50	26.3	
#100	1.1	
FM	2.58	

Unit Weight Dry Rodded

101.0

99.4

Specific Gravity

2.55

2.74

Colometric Test

Plate #1

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

Batch	Wt	Cement	Flg	Fly Ash	SPCC	F.A	C.A	Water	Adm. 1	Adm. 2	Adm. 3	Unit Wt.	Slump (in)	W/C	Air %
1	27.01	330	220	-	-	1361	1740	30.0	3.2	24.8	-	143.6	7.50	0.46	4.60
2	27.01	354	236	-	-	1304	1740	31.0	3.9	30.0	-	142.9	8.00	0.44	5.70
3	27.02	390	260	-	-	1230	1740	32.0	3.7	36.3	-	143.1	8.25	0.41	5.10
4	27.01	414	276	-	-	1196	1740	32.0	2.9	42.0	-	143.7	8.00	0.39	5.40
5	27.00	444	296	-	-	1153	1740	32.0	3.8	48.8	-	142.0	8.00	0.36	5.60
6	26.99	474	316	-	-	1109	1740	32.0	1.2	60.0	-	143.7	8.25	0.34	4.10
7	27.00	504	336	-	-	1070	1740	32.0	2.3	68.0	-	142.9	7.75	0.32	4.60

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

Batch	W/C	7 Days Results	Average	28 Days Results	Average	56 Days Results	Average
1	0.46	3290	3365	3325	5120	5080	5230
2	0.44	4385	4410	4395	6255	6115	6095
3	0.41	4725	4690	4705	7500	7365	7480
4	0.39	5760	5600	5680	7980	8005	8195
5	0.36	6375	6215	6295	8960	9245	9165
6	0.34	7120	6845	6980	9800	9955	10020
7	0.32	8360	8200	8280	10850	10745	10805

**Tags Used:** S & S 36629 – 36684

**Sample broken by** Jorge Lopez **ACI#** 01208239

Euclid supplied all admixtures

**Cement Picked Up From:** United Transit Mix

