



TR3: Technical Report  
Concrete Design Mix  
Must be typewritten.

DEPT BLDGS Job No. 321295488



The TR3 is required prior to permit

1 Location Information Required for all applications.

House No(s) 1080 Street Name 38 STREET (work only 02-17-17 onwards)  
Borough BROOKLYN Block 5288 Lot 40 BIN 3122909 CB No. 312

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 20-39 129 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 070978 ☒ 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<br>(Trial Mixture and/or Field Experience) | <input checked="" type="checkbox"/> Trial Mix<br><input type="checkbox"/> Field Experience | <input type="checkbox"/> Trial Mix<br><input type="checkbox"/> Field Experience | <input type="checkbox"/> Trial Mix<br><input type="checkbox"/> Field Experience |
| Date Trial Mixture Performed                                                 | 05/18/16                                                                                   |                                                                                 |                                                                                 |
| Specified Strength (F'c)                                                     | 4000                                                                                       |                                                                                 |                                                                                 |
| Required Strength (F'cr)                                                     | 6200                                                                                       |                                                                                 |                                                                                 |
| Specified Test Age (Days)                                                    | 28                                                                                         |                                                                                 |                                                                                 |

|                                          | Material Type | Material Source  | ASTM Standard |                            |                      |                      |
|------------------------------------------|---------------|------------------|---------------|----------------------------|----------------------|----------------------|
| Cementitious #1 (lbs)                    | CEMENT        | HOLCIM I/I       | ASTM C150     | 360 lbs.                   | lbs.                 | lbs.                 |
| Cementitious #2 (lbs)                    |               |                  |               | lbs.                       | lbs.                 | lbs.                 |
| Cementitious #3 (lbs)                    | SLAG          | LEHIGH           | ASTM C989     | 240 lbs.                   | lbs.                 | lbs.                 |
| Fine Aggregate (lbs)                     | SAND          | BILLS ROAD       | ASTM C33      | 1315 lbs.                  | lbs.                 | lbs.                 |
| Coarse Aggregate #1 (lbs)                | STONE         | TILCON           | ASTM C33      | 1730 lbs.                  | lbs.                 | lbs.                 |
| Coarse Aggregate #2 (lbs)                |               |                  |               | lbs.                       | lbs.                 | lbs.                 |
| Coarse Aggregate #3 (lbs)                |               |                  |               | lbs.                       | lbs.                 | lbs.                 |
| Amount of Water (gals)                   | WATER         | NYC POTABLE      | ASTM C94      | 32.0 gals.                 | gals.                | gals.                |
| Admixture #1 (oz)                        | AIR           | SIKA AIR         | ASTM C260     | 4.4 oz                     | oz                   | oz                   |
| Admixture #2 (oz)                        | HRWR          | PLASTOCRETE 2100 | ASTM C494     | 27.0 oz                    | oz                   | oz                   |
| Admixture #3 (oz)                        |               |                  |               | oz                         | oz                   | oz                   |
| Other                                    |               |                  |               |                            |                      |                      |
| Water-Cement Ratio                       |               |                  |               | 0.44                       |                      |                      |
| Slump/Spread<br>(inches $\pm$ tolerance) |               |                  |               | 8 $\pm$ 1                  | $\pm$                | $\pm$                |
| Air Content (% $\pm$ tolerance)          |               |                  |               | 6 $\pm$ 1.5                | % $\pm$              | % $\pm$              |
| Unit Weight (lbs./ft <sup>3</sup> )      |               |                  |               | 144.9 lbs./ft <sup>3</sup> | lbs./ft <sup>3</sup> | lbs./ft <sup>3</sup> |



TR3 rev. 02/19/16

**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.

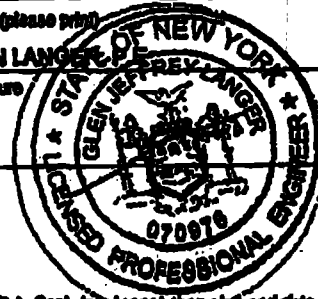
Name (please print)

GLEN LANGSTON

Signature

Date

02-17-17



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)                        | Title                                             |
|-------------------------------------|---------------------------------------------------|
| Signature                           | Date                                              |
| Business Name GREEN READY MIX       | NYMCA Certification Expiration Date (BC 1005.8.2) |
| Business Address 183-30 JAMAICA AVE | Business Telephone (718) 812-0738                 |
| City QUEENS                         | Business Fax                                      |
| State NY                            | Zip 11423                                         |

**6 Design Applicant's Statement and Signature Required for all applications. Must be filled out by the design engineer or planner.**

I certify I have reviewed the concrete design mix(es) reported by the licensed testing lab and found them to be in accordance with the applicable code provisions (BC 1905.8.1).

Name (please print)

BAHRAI TEHRAN

Signature

05/17/2017

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 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)

Hiller Gray

Title

M. Page

Signature

Date

5/10/17

# S&S CONCRETE & SOIL TESTING

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

PHONE: (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

|                                                                        |                                           |
|------------------------------------------------------------------------|-------------------------------------------|
| Client: BIG APPLE TESTING INC                                          | Report Date: 02-17-2017                   |
| Project Address: 1080 38 <sup>TH</sup> STREET, BROOKLYN                | Trial Mix Date: 05-18-2016                |
| (work only 02/17/2017 onwards)                                         | Expiration Date: 05-18-2018               |
| Specified Strength f <sub>c</sub> -f <sub>cr</sub> : 4,000 + 1200 A.E. | Mix No.: GRE9004                          |
| Mix Type: Pump                                                         | Tested By: S&S Concrete & Soil Testing    |
| Concrete Plant Supplier: Green Ready Mix                               | Delivered By: S&S Concrete & Soil Testing |

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

|                         |            |
|-------------------------|------------|
| Cement (lbs.)           | 360        |
| Slag (lbs.)             | 240        |
| Fly Ash (lbs.)          | -          |
| Microsilica (lbs.)      | -          |
| Fine Aggregate (lbs.)   | 1315       |
| Coarse Aggregate (lbs.) | 1730       |
| Water (gals.)           | 32.0       |
| Admixture 1 (oz.)       | 4.4        |
| Admixture 2 (oz.)       | 27.0       |
| Admixture 3 (oz.)       | -          |
| Slump (in.)             | 8.00 ± 1   |
| Air Content (%)         | 6.00 ± 1.5 |
| Unit Wt. P.C.F.         | 144.9      |
| W/C Ratio               | 0.44       |

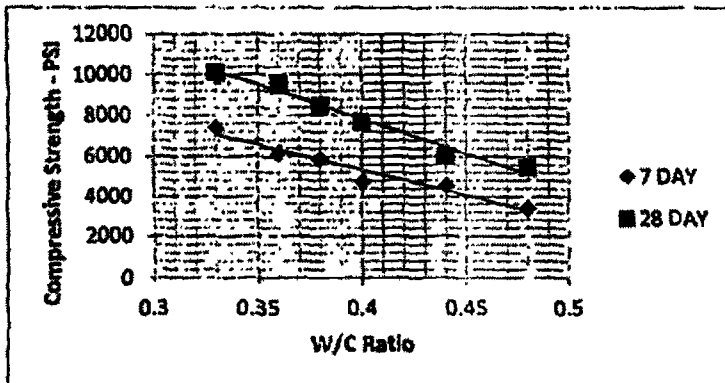
|                  |                     |            |      |
|------------------|---------------------|------------|------|
| Cement           | Holcim I / II       | ASTM C150  | 3.15 |
| Slag             | LEHIGH              | ASTM C989  | 2.89 |
| Fly Ash          | -                   | ASTM C618  | -    |
| Silica Fume      | -                   | ASTM C1240 | -    |
| Fine Aggregate   | Silis Road Material | ASTM C33   | 2.63 |
| Coarse Aggregate | Tilcon              | ASTM C33   | 2.81 |
| Water            | NYC Potable         | ASTM C94   | 1.00 |
| Admixture 1      | Sika Air            | ASTM C260  | 1.03 |
| Admixture 2      | Plastocrete 2100    | ASTM C494  | 1.06 |
| Admixture 3      | -                   | -          | -    |

Note: Batch tickets must accompany every load of concrete.

Owner must supply test results to Atlantic 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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# S&S CONCRETE & SOIL TESTING

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

PHONE: (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

|                                                                             |                                           |                 |
|-----------------------------------------------------------------------------|-------------------------------------------|-----------------|
| Client: BIG APPLE TESTING INC                                               | Report Date: 02-17-2017                   | Mix No: GRE9004 |
| Project Address: 1080 38 <sup>TH</sup> STREET, BROOKLYN                     | Trial Mix Date: 05-18-2016                |                 |
| (work only 02/17/2017 onwards)                                              | Expiration Date: 05-18-2018               |                 |
| Specified Strength f <sub>c</sub> -f <sub>cr</sub> : 4,000 + 1200 A.E. Pump | Tested By: S&S Concrete & Soil Testing    |                 |
| Concrete Plant Supplier: Green 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  | 49.4 |
| #4     | 99.7 | 8.7  |
| #8     | 93.4 | 2.0  |
| #16    | 71.6 |      |
| #30    | 51.0 |      |
| #50    | 27.3 |      |
| #100   | 1.9  |      |
| FM     | 2.55 |      |

Unit Weight Dry Rodded

100.1

98.9

Specific Gravity

2.63

2.81

Colometric Test

Plate #1

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

|   |       |     |     |   |   |      |      |      |     |      |   |       |      |      |      |
|---|-------|-----|-----|---|---|------|------|------|-----|------|---|-------|------|------|------|
| 1 | 26.99 | 336 | 224 | - | - | 1350 | 1730 | 32.0 | 5.2 | 19.6 | - | 146.4 | 8.00 | 0.48 | 6.00 |
| 2 | 27.02 | 360 | 240 | - | - | 1315 | 1730 | 32.0 | 4.4 | 27.0 | - | 146.8 | 7.25 | 0.44 | 5.30 |
| 3 | 27.00 | 396 | 264 | - | - | 1263 | 1730 | 32.0 | 5.8 | 29.7 | - | 147.9 | 7.50 | 0.40 | 5.70 |
| 4 | 27.00 | 420 | 280 | - | - | 1229 | 1730 | 32.0 | 5.0 | 35.0 | - | 146.2 | 8.25 | 0.38 | 5.90 |
| 5 | 27.00 | 444 | 296 | - | - | 1394 | 1730 | 32.0 | 5.7 | 40.7 | - | 151.7 | 8.00 | 0.36 | 6.10 |
| 6 | 26.99 | 480 | 320 | - | - | 1342 | 1730 | 33.5 | 5.3 | 48.0 | - | 152.4 | 7.75 | 0.33 | 5.80 |

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

|   |      |      |      |      |       |       |       |       |     |     |     |     |
|---|------|------|------|------|-------|-------|-------|-------|-----|-----|-----|-----|
| 1 | 0.48 | 3250 | 3575 | 3410 | 5295  | 5710  | 5425  | 5475  | N/A | N/A | N/A | N/A |
| 2 | 0.44 | 4545 | 4595 | 4570 | 6285  | 6045  | 5820  | 6050  | N/A | N/A | N/A | N/A |
| 3 | 0.40 | 4680 | 4810 | 4745 | 7845  | 7550  | 7725  | 7705  | N/A | N/A | N/A | N/A |
| 4 | 0.38 | 5625 | 6165 | 5895 | 8200  | 8380  | 8900  | 8490  | N/A | N/A | N/A | N/A |
| 5 | 0.36 | 6290 | 6075 | 6182 | 9200  | 9495  | 9800  | 9495  | N/A | N/A | N/A | N/A |
| 6 | 0.33 | 7295 | 7530 | 7410 | 10200 | 10150 | 10050 | 10130 | N/A | N/A | N/A | N/A |

Note: Sample Broken By: ACI JORGE LOPEZ # 01208239

Sika Supplied Admixtures.

Tags Used: S & S 21728 - S & S 21775

Sample Supplied By: Atlantic Ready Mix.

Cement Picked Up From: Atlantic Ready Mix.



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