



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) 400 Street Name BRYSON AVENUE

Borough S. I. Block 485 Lot 43 BIN CB No.

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

Director Last Name Santoro Director First Name Gaspare Director Middle Initial R

Business Name Santech LLC Business Telephone (718) 356-3826

Business Address 49 Englewood Avenue Unit 1 Business Fax (718) 356-3853

City SI State NY Zip 10309 Mobile Telephone

E-Mail santoroengineers@yahoo.com

Director's Lic. Number 045601 ☒ P.E. ☐ R.A. Concrete Testing Lab Lic. Number 67

**3 Strength Requirements and Design** Required for all applications. Attach Trial Mixture Reports and/or Field Experience Results.

|                                                                              |               |                   |               | Mix #1                                                                                     | Mix #2                                                                          | Mix #3                                                                          |
|------------------------------------------------------------------------------|---------------|-------------------|---------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Method of Determining Proportions<br>(Trial Mixture and/or Field Experience) |               |                   |               | <input type="checkbox"/> Trial Mix<br><input checked="" 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                                                 |               |                   |               | 2,500                                                                                      |                                                                                 |                                                                                 |
| Specified Strength ( $f'_c$ )                                                |               |                   |               | PSI                                                                                        | PSI                                                                             | PSI                                                                             |
| Required Strength ( $f'_{cr}$ )                                              |               |                   |               | PSI                                                                                        | PSI                                                                             | PSI                                                                             |
| Specified Test Age (Days)                                                    |               |                   |               | 28                                                                                         |                                                                                 |                                                                                 |
|                                                                              | Material Type | Material Source   | ASTM Standard |                                                                                            |                                                                                 |                                                                                 |
| Cementitious #1 (lbs)                                                        | Cement        | Buzzi Hercules    | C150          | 430 lbs.                                                                                   | lbs.                                                                            | lbs.                                                                            |
| Cementitious #2 (lbs)                                                        | Fly Ash       | Separation Tech.  | C618          | 75 lbs.                                                                                    | lbs.                                                                            | lbs.                                                                            |
| Cementitious #3 (lbs)                                                        |               |                   |               | lbs.                                                                                       | lbs.                                                                            | lbs.                                                                            |
| Fine Aggregate (lbs)                                                         | Sand          | Pheonix Pinelands | C33           | 1275 lbs.                                                                                  | lbs.                                                                            | lbs.                                                                            |
| Coarse Aggregate #1 (lbs)                                                    | Stone         | Weldon Materials  | C33           | 1800 lbs.                                                                                  | lbs.                                                                            | lbs.                                                                            |
| Coarse Aggregate #2 (lbs)                                                    |               |                   |               | lbs.                                                                                       | lbs.                                                                            | lbs.                                                                            |
| Coarse Aggregate #3 (lbs)                                                    |               |                   |               | lbs.                                                                                       | lbs.                                                                            | lbs.                                                                            |
| Amount of Water (gals)                                                       | Water         | Potable           | C94           | 36.0 gals.                                                                                 | gals.                                                                           | gals.                                                                           |
| Admixture #1 (oz)                                                            | WR            | Grace/Daravair    | C260          | 4.8 oz                                                                                     | oz                                                                              | oz                                                                              |
| Admixture #2 (oz)                                                            |               |                   |               | oz                                                                                         | oz                                                                              | oz                                                                              |
| Admixture #3 (oz)                                                            |               |                   |               | oz                                                                                         | oz                                                                              | oz                                                                              |
| Other                                                                        |               |                   |               |                                                                                            |                                                                                 |                                                                                 |
| Water-Cement Ratio                                                           |               |                   |               | .60                                                                                        |                                                                                 |                                                                                 |
| Slump (inches $\pm$ tolerance)                                               |               |                   |               | 4.8 $\pm$ 1.5                                                                              | $\pm$                                                                           | $\pm$                                                                           |
| Air Content (% $\pm$ tolerance)                                              |               |                   |               | 6 $\pm$ 1.5                                                                                | % $\pm$                                                                         | % $\pm$                                                                         |
| Unit Weight (lbs./ft <sup>3</sup> )                                          |               |                   |               | 144 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 information reported in section 3 above is correct and complete and that the tests reported in section 3 above were performed under my supervision in accordance with all applicable New York City Construction Code provisions, and Departmental rules.

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)

GASPARE ROSARIO SANTORO, P.E.

Signature

Date

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 specified 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) NEIL VANDERBILT

Title

Signature

Date 1/27/10

NRMCA Certification Expiration Date (BC 1905.8.2)

Business Name VANBRO CORP.

Business Telephone 718-698-1100

Business Address 1900 SOUTH AVENUE

Business Fax:

City STATEN ISLAND

State N.Y.

Zip 10314

**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 1905.6.3.3).

Name (please print)

JOSEPH M. MORACE, R.A.

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 made a false statement or to have knowingly or negligently falsified or allowed to be falsified any certificate, form, signed statement, application, report or certification of the correction of a 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 BROGNA

Title OWNER

Signature

Date 1/27/10