



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) 313 Street Name ST MARKS AVENUE (work only 01-02-2014 onwards)
Borough BROOKLYN Block 1146 Lot 46 BIN 3396269 CB No. 308

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 GLOBAL TESTING SERVICES, INC. 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 globaltestingservices@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 Reports 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				06-17-13		
Specified Strength (f'_c)				5000 PSI	PSI	PSI
Required Strength (f'_{cr})				6200 PSI	PSI	PSI
Specified Test Age (Days)				28		
	Material Type	Material Source	ASTM Standard			
Cementitious #1 (lbs)	Cement	Lehigh Type I/II	C-150	720 lbs.	lbs.	lbs.
Cementitious #2 (lbs)	-	-	-	- lbs.	lbs.	lbs.
Cementitious #3 (lbs)	-	-	-	- lbs.	lbs.	lbs.
Fine Aggregate (lbs)	Sand	L.I. Natural	C-33	1224 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	Stone	N.Y Sand & Stone	C-33	1695 lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)	-	-	-	- lbs.	lbs.	lbs.
Coarse Aggregate #3 (lbs)	-	-	-	- lbs.	lbs.	lbs.
Amount of Water (gals)	Water	City	C-94	32.0 gals.	gals.	gals.
Admixture #1 (oz)	Air	AM 200	C-260	0.70 oz	oz	oz
Admixture #2 (oz)	HRWR	Plastol 5000	C-494	39.6 oz	oz	oz
Admixture #3 (oz)	-	-	-	- oz	oz	oz
Other	GTSM Tag 8965-9004					
Water-Cement Ratio				0.37		
Slump (inches $\pm$ tolerance)				8 $\pm$ 1	$\pm$	$\pm$
Air Content (% $\pm$ tolerance)				6 $\pm$ 1.5	% $\pm$	% $\pm$
Unit Weight (lbs./ft ³)				146.2 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 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)

GLEN J. LANGER

Signature

Date

01-02-14



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)

Title

Signature

Date 1-8-14

NRMCA Certification Expiration Date (BC 1905.8.2) 10-15-15

Business Name ALPINE READY MIX

Business Telephone 718-381-1134

Business Address 46-26 METROPOLITAN AVENUE

Business Fax: 718-381-6383

City MASPETH

State N.Y.

Zip 11378

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).

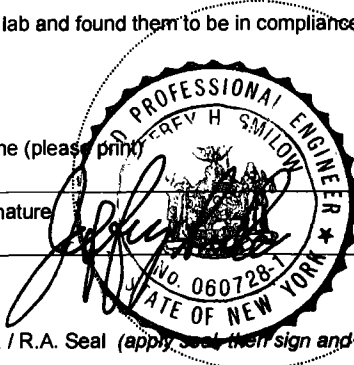
Name (please print)

Signature

Date

1-10-14

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)

Title

Signature

Date

GLOBAL TESTING SERVICES, INC.

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

PHONE: (718) 961-1000

FAX: (718) 961-1002

Email: globaltestingservices@gmail.com

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

CONCRETE MIX DESIGN REPORT

Client: VHT CONSTRUCTION , INC.	Report Date: 01-02-2014
Project Address: 313 ST MARKS AVENUE, BROOKLYN NY	Trial Mix Date: 06-17-2013
(work only 01/02/2014 onwards)	Expiration Date: 06-17-2014
Specified Strength f'_c - f'_{cr} : 5,000 + 1200 A.E.	Mix No.: AP5029
Mix Type: Pump	Tested By: Global Testing Services, Inc.
Concrete Plant Supplier: Alpine Ready Mix	Delivered By: Global Testing Services, Inc.

5,000 + 1200 A.E. Concrete Pump @ 28 days

Cement (lbs.)	720
Slag (lbs.)	-
Fly Ash (lbs.)	-
Microsilica (lbs.)	-
Fine Aggregate (lbs.)	1224
Coarse Aggregate (lbs.)	1695
Water (gals.)	32.0
Admixture 1 (oz.)	0.70
Admixture 2 (oz.)	39.6
Admixture 3 (oz.)	-
Slump (in.)	8.00 ± 1
Air Content (%)	6.00 ± 1.5
Unit Wt. P.C.F.	146.2
W/C Ratio	0.37

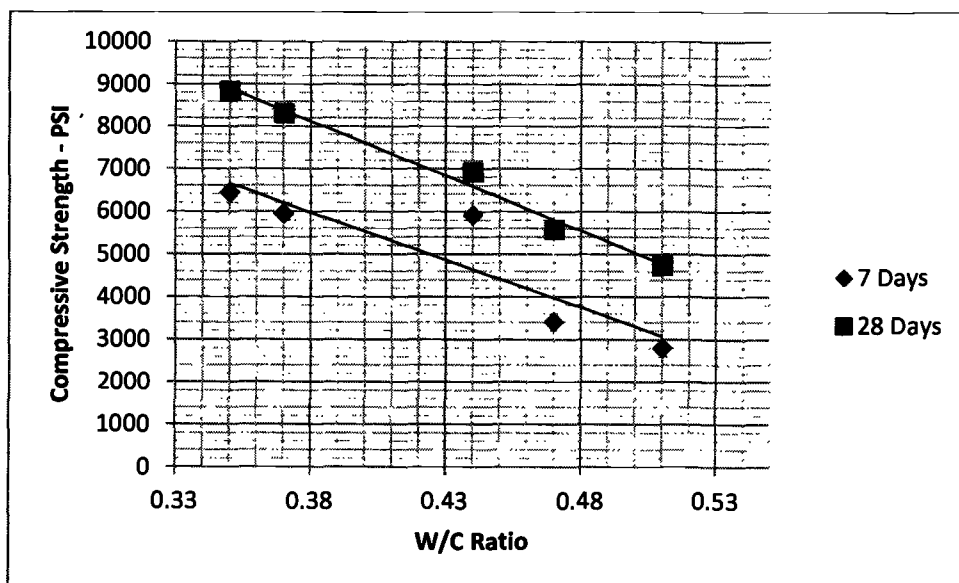
Material	Type & Source	ASTM	Ratio
Cement	Lehigh Type I/II	ASTM C150	3.15
Slag	-	ASTM C989	-
Fly Ash	-	ASTM C618	-
Silica Fume	-	ASTM C1240	-
Fine Aggregate	L.I. Natural	ASTM C33	2.63
Coarse Aggregate	N.Y. Sand & Stone	ASTM C33	2.68
Water	NYC Potable	ASTM C94	1.00
Admixture 1	AM 200	ASTM C260	1.03
Admixture 2	Plastol 5000	ASTM C494	1.06
Admixture 3	-	-	-

Note: Batch tickets must accompany every load of concrete.

Owner must supply test results to Alpine 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: VHT CONSTRUCTION , INC.	Report Date: 01-02-2014	Mix No.: AP5029
Project Address: 313 ST MARKS AVENUE, BROOKLYN NY	Trial Mix Date: 06-17-2013	
(work only 01/02/2014 onwards)	Expiration Date: 06-17-2014	
Specified Strength f'c-f'cr: 5,000 + 700 A.E. Pump	Tested By: Global Testing Services, Inc.	
Concrete Plant Supplier: Alpine Ready Mix	Delivered By: Global Testing Services, Inc.	

5,000 + 1200 A.E. Concrete Pump @ 28 days

Aggregate Gradation Passing Percent Finer

Sieve Size	Finer Aggregate (%)	Finer Aggregate (%)
2"		
1 1/2"		
1"		100
3/4"		98.2
1/2"		-
3/8"	100	43.4
#4	97.4	7.1
#8	92.4	3.2
#16	81.0	
#30	49.2	
#50	12.3	
#100	2.1	
FM	265.6	

Unit Weight Dry Rodded

99.7

100.8

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	Adm. 1	Adm. 2	Adm. 3	Unit Wt.	Slump (in)	W/C	Adm. %
1	27.00	520	-	-	-	1391	1695	32.0	0.30	28.6	-	144.6	7.50	0.51	5.90
2	27.00	560	-	-	-	1357	1695	32.0	0.40	30.8	-	147.2	8.25	0.47	6.10
3	27.01	611	-	-	-	1315	1695	32.0	0.90	33.6	-	145.0	7.50	0.44	5.60
4	26.99	720	-	-	-	1224	1695	32.0	0.70	39.6	-	146.2	8.00	0.37	6.00
5	27.00	760	-	-	-	1190	1695	32.0	0.40	41.8	-	147.0	7.50	0.35	5.40

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

Point	W/C Ratio	7 Day Results	Average	28 Day Results	Average	56 Day Results	Average
1	0.51	2795	2835	2815	4745	4775	4720
2	0.47	3130	3700	3415	5025	5980	5750
3	0.44	5855	5990	5920	7050	6820	6920
4	0.37	5925	5990	5955	8465	8025	8480
5	0.35	6165	6720	6440	8720	8995	8810

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

Euclid Supplied Air & Plastol

Tags Used: GTSM 8965 – GTSM 9004

Sample Supplied By: Alpine Ready Mix

Cement Picked Up From: Alpine Ready Mix

