



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) 852

Street Name Pine Street

Borough Brooklyn

Block 4527

Lot 22

BIN 3404462

CB No. 305

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

Director Last Name Banerjee

Director First Name Debabrata

Director Middle Initial

Business Name Impact Concrete & Control Inspection Inc

Business Telephone (718) 939-7774

Business Address 15-46 129th Street

Business Fax (718) 939-6444

City College Point

State NY

Zip 11356

Mobile Telephone (917) 577-7540

E-Mail dbaner@gmail.com

Director's Lic. Number 081431

☒ P.E. ☐ R.A.

Concrete Testing Lab Lic. Number 000064

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				1-11-14		
Specified Strength (f_c)				4000 PSI	PSI	PSI
Required Strength (f_{cr})				5200 PSI	PSI	PSI
Specified Test Age (Days)				28		
	Material Type	Material Source	ASTM Standard			
Cementitious #1 (lbs)	PortLand Cement	Holcim- Typel/ II	C-150	366 lbs.	lbs.	lbs.
Cementitious #2 (lbs)	Slahg	Holcim Grancem	C-989	244 lbs.	lbs.	lbs.
Cementitious #3 (lbs)				lbs.	lbs.	lbs.
Fine Aggregate (lbs)	Sand	LI Natural/Roanoke	C-33	1400 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	Stone	Tilcon	C-33	1700 lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)				lbs.	lbs.	lbs.
Coarse Aggregate #3 (lbs)				lbs.	lbs.	lbs.
Amount of Water (gals)	Water	NYC	C94	29.3 gals.	gals.	gals.
Admixture #1 (oz)	air	SIKA AIR	C-260	1.2 oz	oz	oz
Admixture #2 (oz)	HRWR	Sikaviscocrete 2100	C464	36.6 oz	oz	oz
Admixture #3 (oz)				oz	oz	oz
Other						
Water-Cement Ratio				0.40		
Slump (inches $\pm$ tolerance)				8 $\pm$ 1	$\pm$	$\pm$
Air Content (% $\pm$ tolerance)				6 $\pm$ 1.5	% $\pm$	% $\pm$
Unit Weight (lbs./ft ³)				144 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.

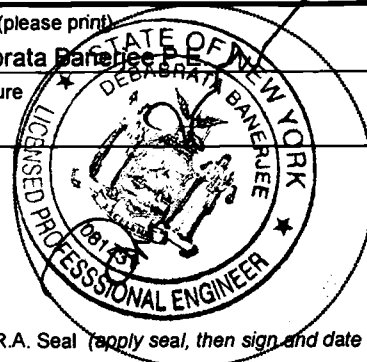
Name (please print)

Debabrata Banerjee

Signature

Date

04-01-14



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) John J Cervoni

Title president

Signature

Date 4-3-14

NRMCA Certification Expiration Date (BC 1905.8.2) 11-07-15

Business Name G&J ready Mix

Business Telephone (718) 454-0800

Business Address 183-30 Jamaica avenue

Business Fax: (718) 454-2902

City Hollis

State NY

Zip 11423

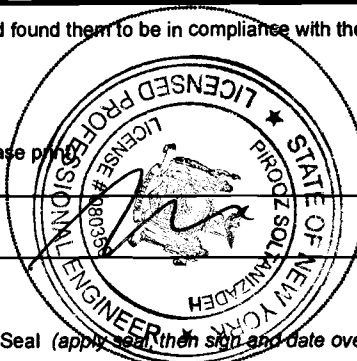
6 Design Applicant's Statement and Signature Required for all applications. Must be filled out by P.E./R.A. responsible for plans.

☒ 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



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)

MATTHEW AHDOOY

Title

OWNER

Signature

Matthew Ahdooy

Date

4/8/14

IMPACT

Concrete & Control Inspections, INC.
15-46 129th Street, College Point, NY 11356
Tel: (718) 939-7774 Fax: (718) 939-6444

The City of New York Department of Buildings Concrete Laboratory License #64
CONCRETE MIX DESIGN REPORT

CLIENT: Royal Engineering	DATE: 1/11/14
	LAB NO.: 2014-1-11-14
	MIX TYPE: Slag Pump
Project: In House QC Mix 2014-2015	Expiration Date: 1/11/2015
852 Pine Street	SAMPLED BY: Impact
Supplier: G & J Ready Mix & Masonry Supply, Inc.	DELIVERED BY: Impact

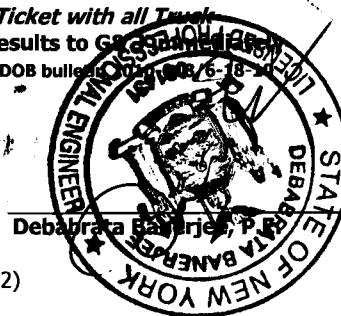
4000 psi + 1200 A.E. Pump Concrete

Product	Source & Type	ASTM	S.G.	NYS Source No.
Cement	Holcim Cement - Type I/II-	ASTM C150	3.15	-
Slag	Holcim - Grancem	ASTM C989	2.88	-
Fly Ash	-	ASTM C618	2.20	-
Silica Fume	-	ASTM C1240	2.20	-
Fine Agg.	LI Natural	ASTM C33	2.63	-
Coarse Agg.	Tilcon	ASTM C33	2.80	-
Water	NYC Potable	ASTM C94	1.00	-
Admixture 1	Sika Corporation- Sika Air	ASTM C260	1	-
Admixture 2	Sika Viscocrete-2100	ASTM C494	1.10	-
Admixture 3				

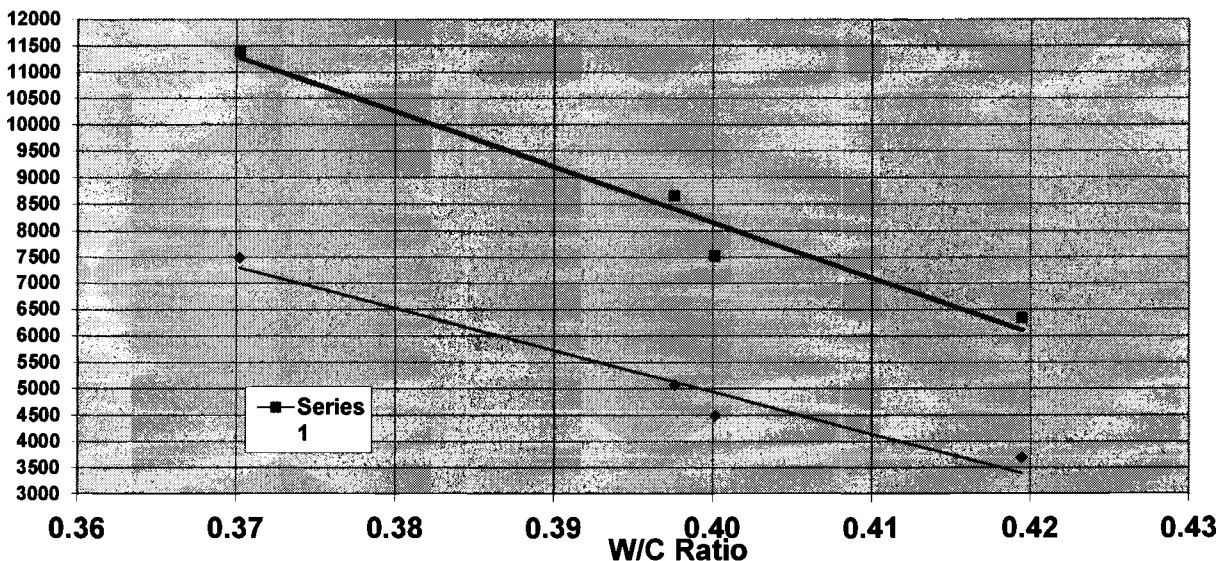
Recommended Mix Design

2

Cement (lbs.)	366	Sacks	6.49	<i>Need Batch Ticket with all Truck</i>
Slag (lbs.)	244	Contractor to supply Break results to G&J within 10 days		
Fly Ash (lbs.)	0	Admixture can be adjusted per NYC DOB bulletin 2012-004, 6-18-12		
Microsilica (lbs.)	0			
Fine Agg. (lbs.)	1400			
Coarse Agg. (lbs)	1700			
Water (gals.)	29.3			
Admixture 1 (oz.)	1.2			
Admixture 2 (oz.)	36.6	(Increase per field condition)		
Admixture 3 (oz.)	---			
Slump (in.)	8" +/- 1"	(Max. 3" Slump before Admixture #2)		
Air Content (%)	6 % +/-1.50%			
U. Wt. P.C.F.	144.0			
W/C Ratio	0.40			



Compressive Strength vs. Water Cement Ratio



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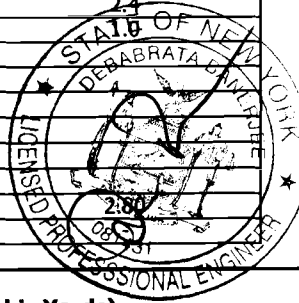
CONCRETE MIX DESIGN REPORT

CLIENT:	Royal Engineering 0 0	DATE:	1/11/14
PROJECT:	Impact Concrete Own reference Mix/Sampled by Impact for Client 852 Pine Street	LAB NO.:	2014-1-11-14
SUPPLIER:	G & J Ready Mix & Masonry Supply, Inc.	MIX TYPE:	Slag Pump
		Expiration Date:	1/11/2015
		SAMPLED BY:	Impact
		DELIVERED BY:	Impact

4000 psi + 1200 A.E. Pump Concrete

**Aggregate Gradation
Passing Percent Finer**

Sieve Size	Fine Aggregates	Stone
2"	-	-
1 1/2"		
1"		100
3/4"		96.2
1/2"		40.5
3/8"	100.0	20.2
# 4	99.0	2.4
# 8	88.0	
# 16	74.1	
# 30	50.0	
# 50	9.8	
# 100	1.2	
FM		
Unit Weight Dry Rodded		
Specific Gravity	2.63	
Colometric Test	Plate # 1	



TRIAL MIXES - DRY BATCH WEIGHTS (lbs./Cubic Yards)

Point	Yield	Cement	Slag	FlyAsh	Silica	F.A.	C.A.	Water	Adx 1	Adx 2	Adx 3	Unit Wt.	Slump(in)	W/C	Air %
1	27.1	336	224	0	0	1475	1700	28.2	1.0	33.6	N/A	150.4	8.00	0.42	4.2
2	27.0	366	244	0	0	1400	1700	29.3	1.2	36.6	N/A	144.0	8.75	0.40	7.4
3	27.0	396	264	0	0	1300	1700	31.5	1.3	39.6	N/A	150.4	9.00	0.40	4.5
4	27.0	483	282	0	0	1160	1700	34.0	1.4	45.9	N/A	152.0	9.00	0.37	4.5

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

Point	w/c ratio	7 Days Results		Average	28 Days Results				Average
1	0.42	3527	3856	3692	6231	6374	6603	6167	6344
2	0.40	4453	4528	4491	7501	7796	7363	7470	7533
3	0.40	5183	4957	5070	8735	8453	8551	8891	8658
4	0.37	7521	7475	7498	11605	11355	10727	11951	11410