

Must be typewritten.

House No(s) 909		Street Name EAST TREMONT AVENUE		
Borough BRONX	Block 3121	Lot 56	BIN 2013117	CB No. 206

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 NEW YORK		Zip 11356	
E-Mail DBANER@GMAIL.COM				Mobile Telephone (917) 577-7540	
Director's Lic. Number 081431		☒ P.E. ☐ R.A.		Concrete Testing Lab Lic. Number 000064	

	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	6-14-21		
Specified Strength (f' c)	6000		
Required Strength (f' cr)	7300		
Specified Test Age (Days)	28 Days		

	Material Type	Material Source	ASTM Standard			
Cementitious #1 (lbs)	Cement	Lehigh Type I/II	C-150	470 lbs.	lbs.	lbs.
Cementitious #2 (lbs)	Slag	Lehigh Allcem Grade120	C-989	160 lbs.	lbs.	lbs.
Cementitious #3 (lbs)				lbs.	lbs.	lbs.
Fine Aggregate (lbs)	Sand	North American	C-33	1268 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	Stone	3/4" Carver S&G	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	C-94	31.0 gals.	gals.	gals.
Admixture #1 (oz)	Air	Sika Air	C-260	1.9 oz	oz	oz
Admixture #2 (oz)	HRWR	Sika Viscoflow 2020	C-494	19.0 oz	oz	oz
Admixture #3 (oz)	HRWR	Sika Viscocrete 2100	C-494	25.0 oz	oz	oz
Other						
Water-Cement Ratio				0.41		
Slump/Spread (inches ± tolerance)				8.0 ± 1.0	±	±
Air Content (% ± tolerance)				6.0 %± 1.5	%±	%±
Unit Weight (lbs./ft³)		(Theoretical Unit wt)		142.8 lbs./ft³	lbs./ft³	lbs./ft³

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.

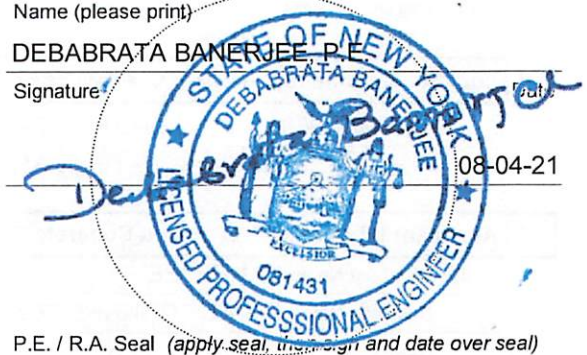
Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both.

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)

DEBABRATA BANERJEE, P.E.

Signature



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)	Frank Gallo/Antonio Romano	Title	
Signature	<i>[Signature]</i>	Date	8/14/2021
Business Name	Gotham Ready mix	NRMCA Certification Expiration Date (BC 1095.8.2)	9-30-2021
Business Address	341 Halleck Street	Business Telephone	(718) 246-4444
		Business Fax:	(718) 246-1111
City	Bronx	State	NY
		Zip	10474

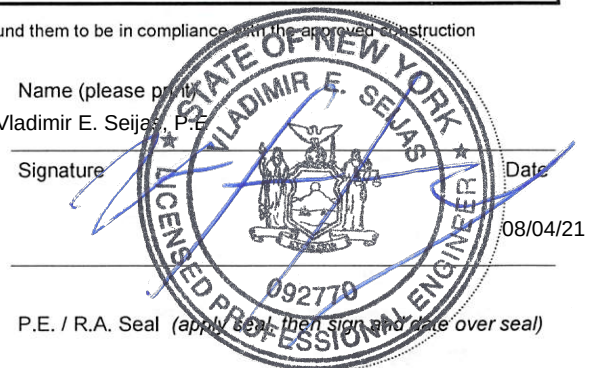
6 Design Applicant's Statement and Signature *Required for all applications. Must be filled out by P.E./R.A. responsible for plans.*

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)

Vladimir E. Seijas, P.E.

Signature



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 I if 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)	Rick Gropper	Title	
Signature	<i>[Signature]</i>	Date	8/9/2021

IMPACT

CONCRETE & CONTROL INSPECTIONS, INC.
18-30 129TH STREET, COLLEGE POINT, NEW YORK 11356
TEL: (718) 939-7774 FAX: (718) 939-6444

CONCRETE MIX DESIGN REPORT

CLIENT:	PROPERTY OWNERSHIP	DATE:	6/14/21
		LAB NO.:	Gotham Cement F
		MIX TYPE:	Pump
Project:	909 EAST TREMONT AVENUE	METHOD:	Trial
		SAMPLED BY:	Impact
Supplier:	Gotham ready mix		

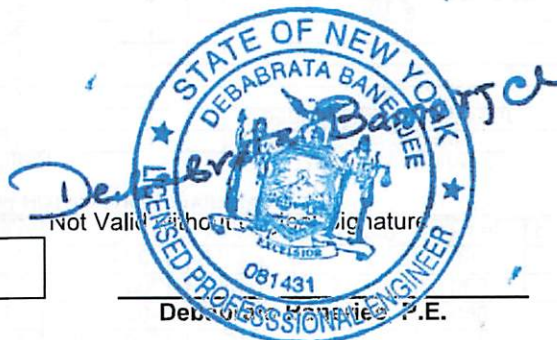
6000 PSI +1300 Psi Normal wt concrete Pump Mix @28 Days

Product	Source & Type	ASTM	S.G.	NYS Source No.
Cement	Lehigh-I/I	ASTM C150	3.15	
Slag	Lehigh allcem Grade 120	ASTM C989	2.94	
Silica Fume	Sika crete DP-950	ASTM C1240	2.20	
Fine Agg.	North American	ASTM C33	2.62	
Coarse Agg.	3/4" Carver S&G	ASTM C33	2.67	
Coarse Agg.	3/8 Carver S&G	ASTM C33	2.67	
Water	NYC Potable	ASTM C94	1.00	
Admixture 1	Sika Air	ASTM C260	1.20	
Admixture 2	Sika Viscoflow 2020	ASTM C494	1.20	
Admixture 3	Sika Viscocrete 2100	Admix4: Sikatarad 440 Admix5: CN	ASTM C-494	-

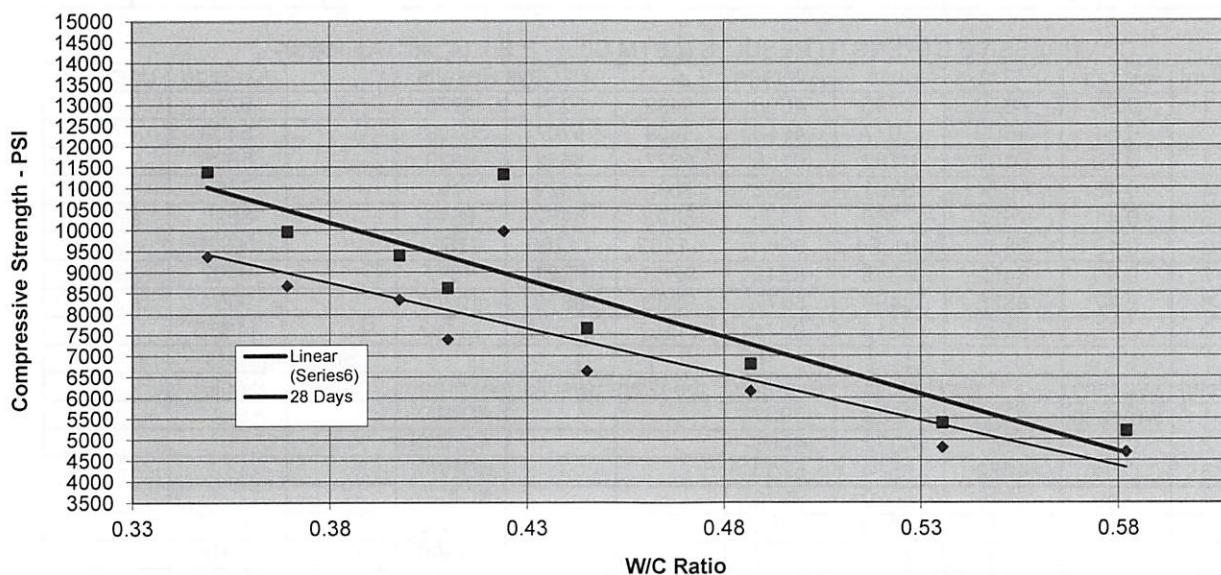
Recommended Mix Design # 5

Cement (lbs.)	470
Slag (lbs.)	160
Microsilica (lbs.)	0
Fine Agg. (lbs.)	1268
Coarse Agg. (lbs)	1700
Coarse Agg. (lbs)	0
Water (gals.)	31.0
Admixture 1 (oz.)	1.9
Admixture 2 (oz.)	19.0
Admixture 3 & 4 (Oz)	25.0 & 0.0
Slump (in.)	8.0 +/- 1.0
Air Content (%)	6 % +/- 1.5%
U. Wt. P.C.F.	142.8 (Theoretical Unit wt)
W/C Ratio	0.41

Admix 5:



Compressive Strength vs. Water Cement Ratio



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CONCRETE MIX DESIGN REPORT

CLIENT: PROPERTY OWNERSHIP
0
0
PROJECT: 909 EAST TREMONT AVENUE
0
SUPPLIER: Gotham ready mix

DATE: 6/14/21
LAB NO.: Gotham Cement P
MIX TYPE: Pump
METHOD: Trial
SAMPLED BY: Impact

6000 PSI +1300 Psi Normal wt concrete Pump Mix @28 Days

Aggregate Gradation Passing Percent Finer

Sieve Size	F.A.	C.A. #67	CA #8	FA C-33	CA #67/CA #57
2"					C-33 C-33
1 1/2"					100
1"		100.0			100 95-100
3/4"		96.5			90-100
1/2"		78.7			25-80
3/8"	100.0	24.8		100	20-55
# 4	97.2	4.8		95-100	0-10 0-10
# 8	90.5	2.6		80-100	0-5 0-5
# 16	80.2			50-85	
# 30	52.5			25-60	
# 50	14.8			5-30	
# 100	2.4			0-10	
F.M.	2.62				
Unit Weight Dry Rodded					
Specific Gravity	2.62	2.67	2.67		
Colometric Test					

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

Point	Yield	Cement	Slag	Silica	F.A.	C.A-1	C.A-2	Water	Adx 1	Adx 2	Adx 3 & 4	Unit Wt.	Slump(in)	W/C	Air
1	27	460	0	0	1400	1700	0	32.1	1.0	14.0	14.0 & 0	142.8	7.50	0.58	6.8
2	27	500	0	0	1367	1700	0	32.1	1.7	15.0	15.0 & 0.0	140.2	7.75	0.54	7.5
3	27	550	0	0	1325	1700	0	32.1	1.1	19.0	19.0 & 0.0	145.6	8.50	0.49	4.5
4	27	470	120	0	1294	1700	0	31.5	1.5	21.0	21.0 & 0.0	145.0	8.50	0.45	5.0
5	27	470	160	0	1268	1700	0	31.0	1.9	19.0	25.0 & 0.0	143.2	8.75	0.41	6.6
6	26	460	120	31	1217	1700	0	29.5	1.8	21.0	31.0 & 25	145.6	8.00	0.42	4.7
7	27	450	200	0	1249	1700	0	31.0	2.0	20.0	26.0 & 0	144.0	8.75	0.40	5.9
8	27	420	280	0	1216	1685	0	31.0	2.1	25.0	35.0 & 0	146.0	9.00	0.37	5.2
9	27	440	300	0	1181	1685	0	31.0	2.2	22.0	47.0 & 0	144.8	9.00	0.35	5.0

COMPRESSIVE STRENGTH RESULTS (ASTM C39) - P.S.I. (4" x8" Cylinders)---

	Point	w/c ratio	7 Days Results		Average	28 Days Results				Average	MOE 28Day
	1	0.58	4600	4795	4698	5438	5224	4970		5211	
	2	0.54	4609	5017	4813	5609	5207	5393		5403	
	3	0.49	6157	6152	6155	6827	6658	6929		6805	
	4	0.45	6674	6591	6633	7806	7429	7767		7667	5430065
	5	0.41	7524	7266	7395	8893	8452	8544		8630	5660010
	6	0.42	9833	10094	9964	11262	11106	11592		11320	5344460
	7	0.40	8452	8245	8349	9288	9221	9697		9402	5584441
	8	0.37	8886	8468	8677	9833	9818	10240		9964	5676094
	9	0.35	9522	9219	9371	11557	11430	11197		11395	
										Shrinkag Data	
	Point	w/c ratio	3 Days Results		Average	56 Days Results			Average	7 Day	28 Day
	1	w/c ratio	3979	3955	3967				#DIV/0!		
	2	0.58	4165	4372	4269				#DIV/0!		
	3	0.54	4952	5514	5233				#DIV/0!		
	4	0.49	5426	5630	5528				#DIV/0!		
	5	0.45	6117	6079	6098				#DIV/0!	0.031	0.022
	6	0.41	8287	7584	7936				#DIV/0!	0.025	0.014
	7	0.41	6455	6926	6691				#DIV/0!	0.014	0.014
	8	0.41	7043	6747	6895				#DIV/0!	0.008	0.015
	9	0.42	7639	7376	7508	Design, Page 2 of 2			#DIV/0!	0.012	0.015