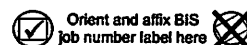




TR3: Technical Report Concrete Design Mix

Must be typewritten.



The TR3 is required prior to permit

1 Location Information Required for all applications.

House No(s) 3408 Street Name GLENWOOD ROAD
Borough BROOKLYN Block 7562 Lot 41 BIN 3206044 CB No. 317

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 NEW YORK 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 Report 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	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 Grade 120	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.

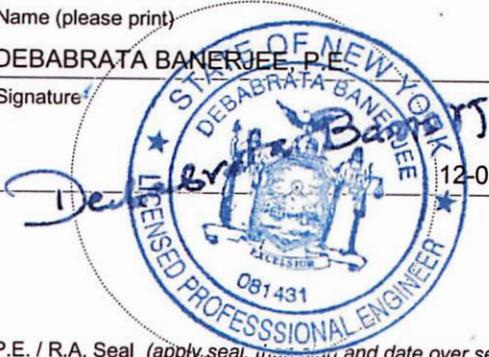
Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both.

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.

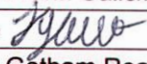
Signature



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		Date	12/18/2021
Business Name	Gotham Ready mix	NRMCA Certification Expiration Date (BC 1095.8.2)	06-05-22
Business Address	200 Morgan Avenue	Business Telephone	(718) 246-4444
City	Brooklyn	Business Fax:	(718) 246-1111
State	NY	Zip	11237

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)

Signature

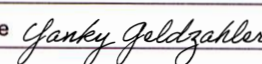
Date



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 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)	Yanky Geldzahler	Title	owner
Signature		Date	2/1/2022

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

CLIENT:	PROPERTY OWNERSHIP	DATE:	6/14/21
		LAB NO.:	Gotham Cement F
		MIX TYPE:	Pump
Project:	3408 GLENWOOD ROAD	METHOD:	Trial
		SAMPLED BY:	Impact
Supplier:	Gotham ready mix	CODE:	60IM22PU-6-14-21

Recommended Mix Design	#	5
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Not Valid without Original Signature

Compressive Strength vs. Water Cement Ratio



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
	0	LAB NO.:	Gotham Cement P
	0	MIX TYPE:	Pump
PROJECT:	3408 GLENWOOD ROAD	METHOD:	Trial
	0	SAMPLED BY:	Impact
SUPPLIER:	Gotham ready mix		

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"						95-100
3/4"		100.0			100	
1/2"		96.5			90-100	
3/8"		74.3			20-55	25-80
# 4	100.0	4.8			0-10	0-10
# 8	97.2	2.5			0-5	0-5
# 16	90.5					
# 30	80.2					
# 50	52.5					
# 100	14.8					
FM	2.4					
Unit Weight Dry Rodded	2.62					
Specific Gravity	2.62					
Colometric Test	Plate # 1					

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 & 0.0	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	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	144.0	8.75	0.40	5.9
8	27	420	280	0	1216	1685	0	31.0	2.1	25.0	35 & 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	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	0.582	3979	3955	3967	5442	5500	5471		
2	0.54	4165	4372	4269	5742	5924	5833		
3	0.49	4952	5514	5233	7305	7143	7224		
4	0.45	5426	5630	5528	7838	8399	8119		
5	0.41	6117	6079	6098	9354	9474	9414	0.031	0.022
6	0.42	8287	7584	7936	11727	11832	11780	0.025	0.014
7	0.40	6455	6926	6691	10457	10239	10348	0.014	0.014
8	0.37	7043	6747	6895	10673	10359	10516	0.008	0.015
9	0.35	7639	7376	7508	11884	11929	11929	0.012	0.015