



DEPT BLDGS Job No. 121188776
Scan Code ESHS7537056

The TR3 is required prior to permit

1 Location Information Required for all applications.									
House No(s) 38		Street Name WEST 8th STREET							
Borough MANHATTAN		Block 553		Lot 24		BIN 1008941		CB No. 102	
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 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)

Dilip Marone

Title

Owner

Signature

Date

11/17/21

NRMCA Certification Expiration Date (BC 1095.8.2) 06-05-22

Business Name Gotham Ready mix

Business Telephone (718) 246-4444

Business Address 200 Morgan Avenue

Business Fax: (718) 246-1111

City Brooklyn

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.*

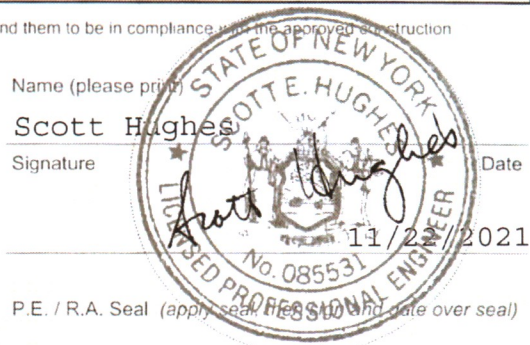
I certify I have reviewed the concrete design mix(es) reported by the licensed testing lab and found them to be in compliance with the approved construction documents (BC 1905.6).

Name (please print)

Scott Hughes

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)

Joseph Straus

Title Owner

Signature

Date

11-18-2021

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:	INTERNATIONAL CONCRETE	DATE:	6/14/21
Project:	38 WEST 8th STREET	LAB NO.:	Gotham Cement F
Supplier:	Gotham ready mix	MIX TYPE:	Pump
		METHOD:	Trial
		SAMPLED BY:	Impact
		CODE:	60IM22PU-6-14-21

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

Product	Source & Type	ASTM	S.G.	NYS Source No.
Cement	Lehigh-I/II	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	ASTM C-494	-	

Recommended Mix Design # 5

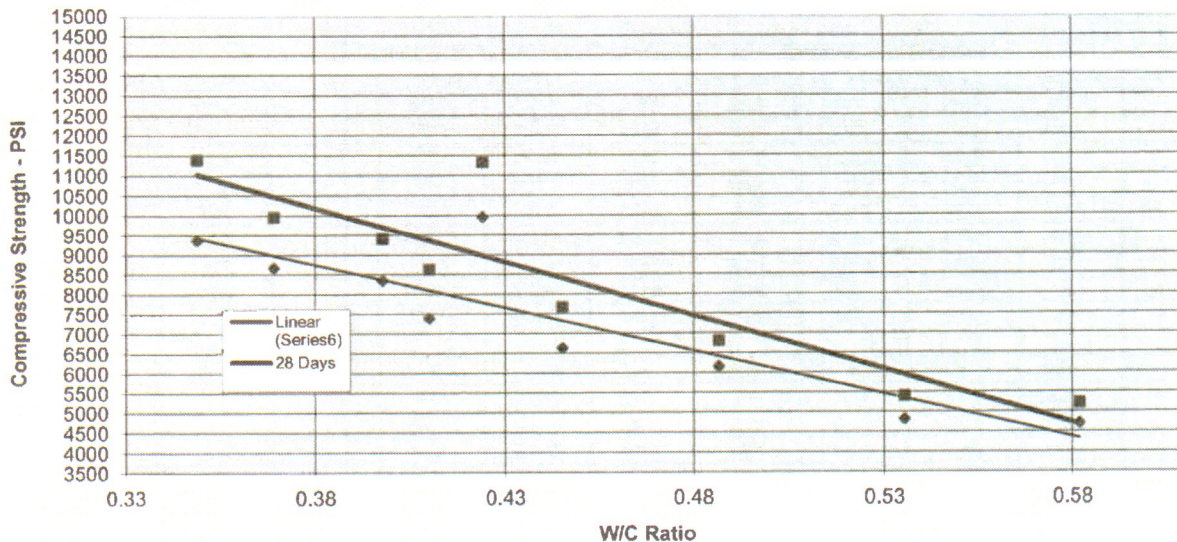
Cement (lbs.)	470
Slag (lbs.)	160
Microsilica (lbs.)	0
Fine Agg. (lbs.)	1268
Coarse Agg. (lbs.)	1700
Coarse Agg. (lbs.)	0
Water (gals.)	31.0
Admixture 1 (oz.)	1.9
Admixture 2 (oz.)	19.0
Admixture 3 & 4 (Oz)	25.0 & 0.0
Slump (in.)	8.0 +/- 1.0
Air Content (%)	6 % +/- 1.5%
U. Wt. P.C.F.	142.8 (Theoretical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



Not Valid without original signature

Debabrata Banerjee, P.E.

Compressive Strength vs. Water Cement Ratio



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CONCRETE MIX DESIGN REPORT

CLIENT:	INTERNATIONAL CONCRETE	DATE:	6/14/21
	0	LAB NO.:	Gotham Cement P
	0	MIX TYPE:	Pump
PROJECT:	38 WEST 8th STREET	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 C-33	CA #57 C-33
2"						
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						

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	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	

Shrinkage 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	8455	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	10644	11929	11286	0.012	0.015