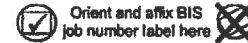




**TR3: Technical Report
Concrete Design Mix**
Must be typewritten.



The TR3 is required prior to permit

1 Location Information *Required for all applications.*

House No(s) 669 Street Name SAINT MARKS AVENUE
Borough BROOKLYN Block 1219 Lot 54 BIN 3030679 CB No. 308

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				10-8-20		
Specified Strength (f' c)				4000		
Required Strength (f' cr)				5200		
Specified Test Age (Days)				28		
	Material Type	Material Source	ASTM Standard			
Cementitious #1 (lbs)	Cement	Lafarge Type I/II	C-150	348 lbs.	lbs.	lbs.
Cementitious #2 (lbs)	Slag	Lafarge New Grade 120	C-989	232 lbs.	lbs.	lbs.
Cementitious #3 (lbs)				lbs.	lbs.	lbs.
Fine Aggregate (lbs)	Sand	LI Natural (Coram)	C-33	1380 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	Stone	Hamburg	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	31.2 gals.	gals.	gals.
Admixture #1 (oz)	Air	Sika Air	C-260	1.4 oz	oz	oz
Admixture #2 (oz)	HRWR	Siak Viscocrete 2100	C-494	33.0 oz	oz	oz
Admixture #3 (oz)				oz	oz	oz
Other						
Water-Cement Ratio				0.45		
Slump/Spread (inches $\pm$ tolerance)				8.0 $\pm$ 1"	$\pm$	$\pm$
Air Content (% $\pm$ tolerance)				6.0 $\pm$ 1.5	% $\pm$	% $\pm$
Unit Weight (lbs./ft ³)				143.2 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 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.

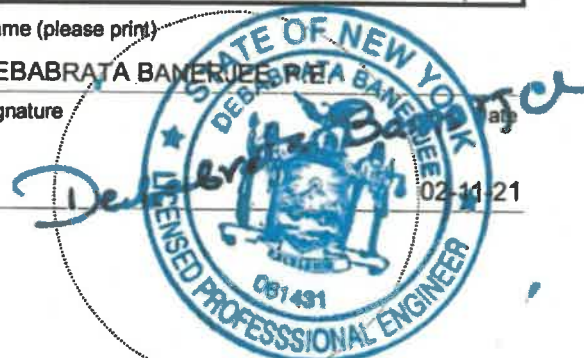
Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both.

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

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)

Daniel Lago

Title

OWNER

Signature

Date

2/12/21

NRMCA Certification Expiration Date (BC 1095.8.2) 11-14-21

Business Name

Lage Industries

Business Telephone (718) 662-0362

Business Address

9814 Ditmas Avenue

Business Fax: (718) 342-3444

City

Brooklyn

State

NY

Zip

12236

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)

Reuben Pinner

Title

member

Signature

Date

2/24/21

IMPACT

CONCRETE & CONTROL INSPECTIONS, INC.

18-30 129TH STREET, COLLEGE POINT, NEW YORK 11356

TEL: (718) 939-7774 FAX: (718) 939-6444 DOB LICENSE # 000064

CONCRETE MIX DESIGN REPORT

CLIENT:	PINNER	DATE:	10/8/20
Project:	669 SAINT MARKS AVENUE	LAB NO.:	Lage Slag Air P
Supplier:	Lage Industries	MIX TYPE:	Normalwt Pump
		METHOD:	Trial
		SAMPLED BY:	Impact
		Expire on:	10/8/2022

4000 PSI +1200 Psi Normal wt concrete Pump Mix @28 Days

Product	Source & Type	ASTM	S.G.	NYS Source No.
Cement	Laferge Type I/II	ASTM C150	3.15	
Slag	Lafarge Newcem Grade 120	ASTM C989	2.88	-
Fly Ash	-	ASTM C618	2.20	-
Silica Fume	-	ASTM C1240	2.20	-
Fine Agg.	Coram	ASTM C33	2.63	-
Coarse Agg.	Hamburg 3/4	ASTM C33	2.71	-
Water	NYC Potable	ASTM C94	1.00	-
Admixture 1	Sika Sika Air	ASTM C260	1.03	-
Admixture 2	Sika Viscocrete 2100	ASTM C494	1.20	-
Admixture 3		ASTMC494	-	-

Recommended Mix Design # 2

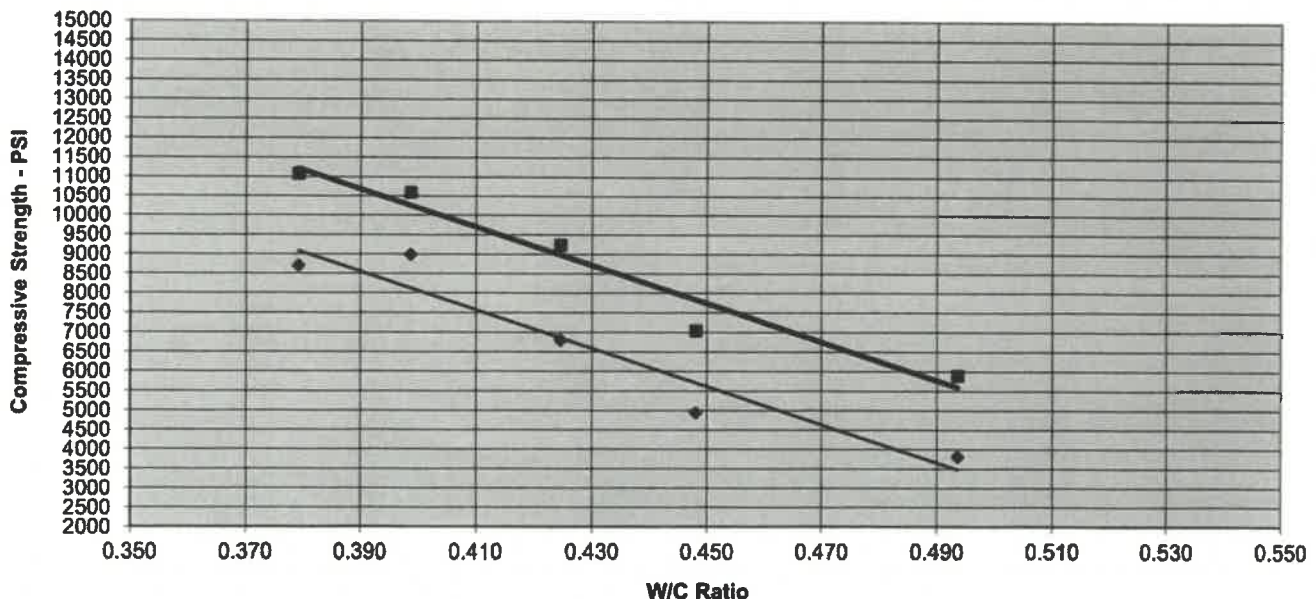
Cement (lbs.)	348
Slag (lbs.)	232
Fly Ash (lbs.)	0
Microsilica (lbs.)	0
Fine Agg. (lbs.)	1380
Coarse Agg. (lbs.)	1700
Water (gals.)	31.2
Admixture 1 (oz.)	1.4
Admixture 2 (oz.)	33.0
Admixture 3 (ozl.)	
Slump (in.)	8.0"±1.0"
Air Content (%)	6 % ±1.5%
U. Wt. P.C.F.	143.2
W/C Ratio	0.45

Not Valid without official Stamp

Debabrata Banerjee, P.E.



Compressive Strength vs. Water Cement Ratio



IMPACT

CONCRETE & CONTROL INSPECTIONS, INC.
15-46 129TH STREET, COLLEGE POINT, NEW YORK 11356
TEL: (718) 939-7774 FAX: (718) 939-6444

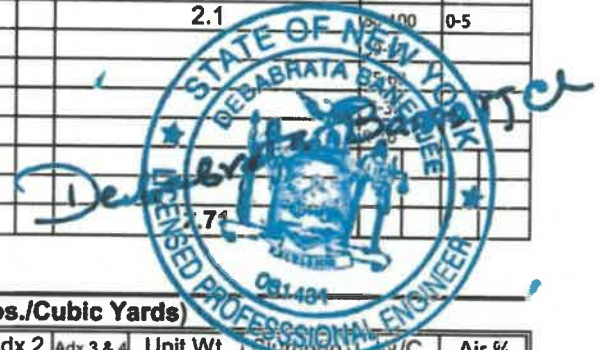
CONCRETE MIX DESIGN REPORT

CLIENT: PINNER 0 0 PROJECT: 669 SAINT MARKS AVENUE 0 SUPPLIER: Lage Industries	DATE: 10/8/20 LAB NO.: Lage Slag Air P MIX TYPE: Normalwt Pump METHOD: Trial SAMPLED BY: Impact DELIVERED BY: 10/8/2022
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4000 PSI +1200 Psi Normal wt concrete Pump Mix @28 Days

Aggregate Gradation Passing Percent Finer

Sieve Size	F.A.	C.A. #57	#57
2"			C-32 C-33/Stone
1 1/2"		100.00	100
1"		98.9	Sand 95-100
3/4"			
1/2"		28.20	25-60
3/8"	100.0		100
# 4	98.2	4.8	95-100 0-10
# 8	93.5	2.1	0-5
# 16	78.2		
# 30	50.6		
# 50	15.2		
# 100	1.4		
FM	2.63		
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 & 4	Unit Wt.	W/C	Air %
1	27.3	324	216	0	0	1400	1700	32.0	1.6	31.6	0.0	141.2	7.75	0.494 7.4
2	27.2	348	232	0	0	1380	1700	31.2	1.4	33.0	0.0	143.2	8.00	0.448 6.4
3	27.2	372	248	0	0	1340	1700	31.6	1.5	38.0	0.0	145.6	8.50	0.425 5.4
4	27.3	396	264	0	0	1310	1700	31.6	1.5	38.0	0.0	147.2	8.00	0.399 4.8
5	27.2	423	280	0	0	1250	1700	32.0	1.6	36.3	0.0	149.6	8.50	0.379 4.5

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

Point	w/c ratio	7 Days Results	Average	28 Days Results	Average
1	0.494	3834 3784	3809	5907 5984 5804	5898
2	0.448	4813 5059	4936	6838 7385 6885	7036
3	0.425	6840 6755	6798	9253 9003 9440	9232
4	0.399	9210 8755	8983	10690 10433 10664	10596
5	0.379	8723 8665	8694	11385 11427 10407	11073