



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) 5849	Street Name 77 PLACE
Borough QUEENS	Block 2825 Lot 73 BIN 4063422 CB No. 405

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 POIN 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	5-4-20		
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 I/II	C-150	660 lbs.	lbs.	lbs.
Cementitious #2 (lbs)				lbs.	lbs.	lbs.
Cementitious #3 (lbs)				lbs.	lbs.	lbs.
Fine Aggregate (lbs)	Sand	LI Natural (Roanoke)	C-33	1200 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	Stone	NY Sand & Stone	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	35.6 gals.	gals.	gals.
Admixture #1 (oz)	Air	Airmix 200	C-260	0.2 oz	oz	oz
Admixture #2 (oz)	HRWR	Plastol 5000	C-494	39.6 oz	oz	oz
Admixture #3 (oz)				oz	oz	oz
Other	SUPPLIER MAY ADJUST	ADMIXTURE AS PER	NYC DOB			
Water-Cement Ratio	BULLETIN 2010-018			0.45		
Slump/Spread (inches ± tolerance)				8 ± 1"	±	±
Air Content (% ± tolerance)				6.0 %± 1.5	%±	%±
Unit Weight (lbs./ft³)				145.1 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.

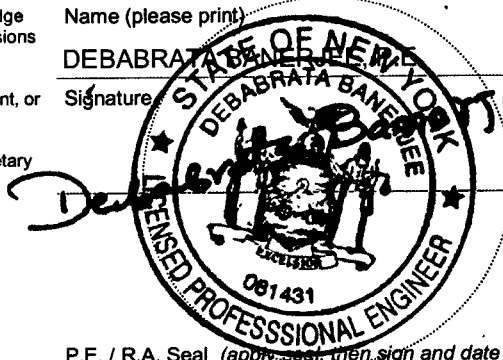
Name (please print)

DEBABRATA BANERJEE

Signature

Date

06-04-21



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) Mike Cotoia

Title President

Signature

Date

NRMCA Certification Expiration Date (BC 1095.8.2) 08-29-22

Business Name Alpine Ready Mix

Business Telephone (718) 381-1134

Business Address 46-26 Metropolitan Avenue

Business Fax: (718) 381-6383

City Maspeth

State NY

Zip 11378

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

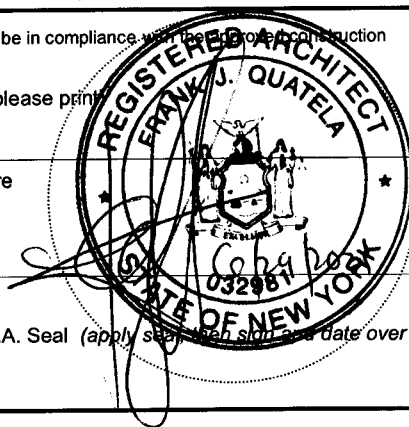
I certify I have reviewed the concrete design mix(es) reported by the licensed testing lab and found them to be in compliance with the NYC construction documents (BC 1905.6).

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 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 FELLE

Title

OWNER

Signature

Date

6-10-21

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

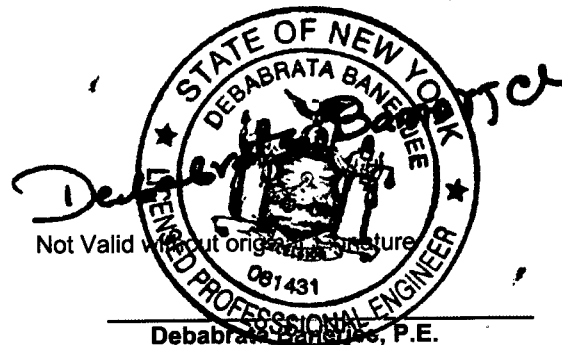
CLIENT:	JOSEPH FELLE	DATE:	5/4/20
		LAB NO.:	AlpinePump Air
		MIX TYPE:	Pump
Project:	5849 77 PLACE	METHOD:	Trial
		SAMPLED BY:	Impact
Supplier:	Alpine Ready mix	Expire on:	5/4/2022

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

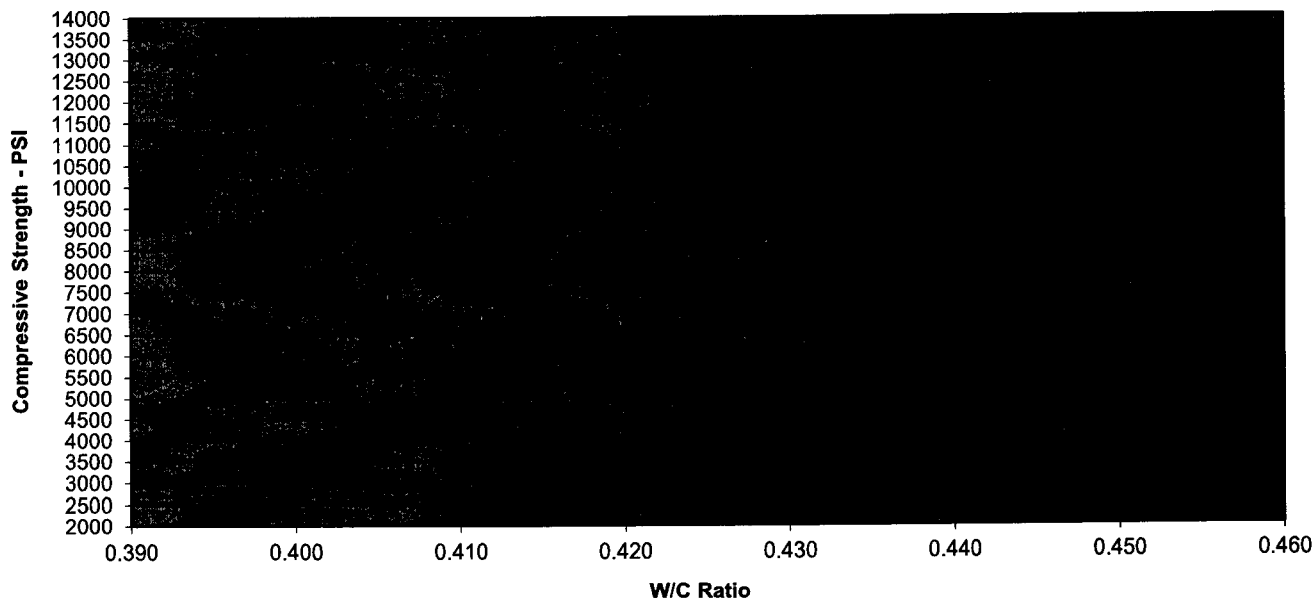
Product	Source & Type	ASTM	S.G.	NYS Source No.
Cement	Lafarge I/II	ASTM C150	3.15	
Slag	-	ASTM C989	2.88	-
Fly Ash	-	ASTM C618	2.20	-
Silica Fume	-	ASTM C1240	2.20	-
Fine Agg.	LI Natural (Roanoke)	ASTM C33	2.63	-
Coarse Agg.	NY Sand and Stone	ASTM C33	2.70	-
Water	NYC Potable	ASTM C94	1.00	-
Admixture 1	Euclid Air Mix 200	ASTM C260	1.03	-
Admixture 2	Euclidd Plastol 5000	ASTM C494	1.20	-
Admixture 3		ASTMC494	-	-

Recommended Mix Design # 2

Cement (lbs.)	660
Slag (lbs.)	0
Fly Ash (lbs.)	0
Microsilica (lbs.)	0
Fine Agg. (lbs.)	1200
Coarse Agg. (lbs)	1700
Water (gals.)	35.6
Admixture 1 (oz.)	0.2
Admixture 2 (oz.)	39.6
Admixture 3 (oz.)	0.0
Slump (in.)	8.0"+-1.0"
Air Content (%)	6 % +/-1.5%
U. Wt. P.C.F.	145.1
W/C Ratio	0.45



Compressive Strength vs. Water Cement Ratio



IMPACT

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15-46 129TH STREET, COLLEGE POINT, NEW YORK 11356
TEL: (718) 939-7774 FAX: (718) 939-6444

CONCRETE MIX DESIGN REPORT

CLIENT: JOSEPH FELLE 0 0 PROJECT: 5849 77 PLACE 0 SUPPLIER: Alpine Ready mix	DATE: 5/4/20 LAB NO.: AlpinePump Air MIX TYPE: Pump METHOD: Trial SAMPLED BY: Impact DELIVERED BY: 5/4/2022
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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. #67	#67
2"			C-32 C-33/Stone
1 1/2"		100.00	
1"		100.0	Sand 100
3/4"		97.50	95-100
1/2"			
3/8"	100.0	23.50	100 20-55
# 4	97.5	2.3	95-100 0-10
# 8	92.3	1.8	80-100 0-5
# 16	78.2		50-85
# 30	48.2		25-60
# 50	15.3		5-30
# 100	2.0		0-10
FM	2.67		
Unit Weight Dry Rodded			
Specific Gravity	2.63	2.70	
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	600	0	0	0	1310	1700	33.0	0.2	36.2		145.2	8.00	0.46	6.0
2	27.0	660	0	0	0	1200	1700	35.6	0.2	39.6		145.1	8.25	0.45	4.7
3	27.1	705	0	0	0	1140	1700	37.2	0.2	42.3		146.2	8.75	0.44	5.1
4	27.0	750	0	0	0	1050	1700	38.7	0.3	45.2		150.2	9.00	0.43	3.2
5	27.1	800	0	0	0	1020	1700	38.7	0.4	48.0		151.2	8.25	0.40	1.2

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

Point	w/c ratio	7 Days Results	Average	28 Days Results	Average
1	0.458	7063 7131	7097	7965 7598 8407	7990
2	0.449	7135 7300	7218	8233 8146 8588	8322
3	0.440	7540 8016	7778	8859 9087 8846	8931
4	0.430	8183 8100	8142	8891 8534 8845	8757
5	0.403	7782 8385	8084	9413 10063 9164	9547

