



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) 191-17 Street Name 37th Avenue
Borough Queens Block 5309 Lot 2 BIN 4120031 CB No. 411

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 NY 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 Reports 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				8-20-12		
Specified Strength (f'_c)				4000 PSI	PSI	PSI
Required Strength (f'_{cr})				5200 PSI	PSI	PSI
Specified Test Age (Days)				28		
	Material Type	Material Source	ASTM Standard			
Cementitious #1 (lbs)	Cement	Holcim	C150	660 lbs.	lbs.	lbs.
Cementitious #2 (lbs)				lbs.	lbs.	lbs.
Cementitious #3 (lbs)				lbs.	lbs.	lbs.
Fine Aggregate (lbs)	SAND	LI Natural	C-33	1350 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	3/4" STONE	TILCON	C33	1700 lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)				lbs.	lbs.	lbs.
Coarse Aggregate #3 (lbs)				lbs.	lbs.	lbs.
Amount of Water (gals)	WATER	NYC	C94	32.5 gals.	gals.	gals.
Admixture #1 (oz)	AIR	MBVR	C260	2.6 oz	oz	oz
Admixture #2 (oz)	HRWR	Plastol 5000	C494	39.0 oz	oz	oz
Admixture #3 (oz)				oz	oz	oz
Other	Tags: 50675-50450					
Water-Cement Ratio				0.41		
Slump (inches $\pm$ tolerance)				7 $\pm$ 1	$\pm$	$\pm$
Air Content (% $\pm$ tolerance)				6 $\pm$ 1.5	% $\pm$	% $\pm$
Unit Weight (lbs./ft ³)				148. 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 information reported in section 3 above is correct and complete and that the tests reported in section 3 above were performed under my supervision in accordance with all applicable New York City Construction Code provisions, and Departmental rules.

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.

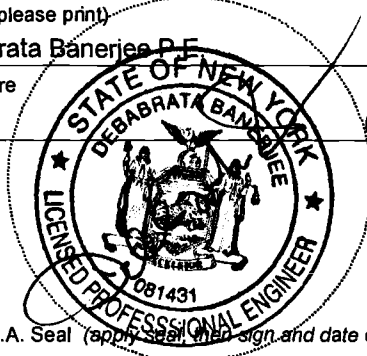
Name (please print)

Debabrata Banerjee P.E.

Signature

Date

04-10-13



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 specified 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) SALVATORE Li CALZI

Title CONTROLLER

Signature [Signature] Date 4/11/2013

NRMCA Certification Expiration Date (BC 1905.8.2) 11-15-2013

Business Name Best Concrete Mix Corp

Business Telephone (718) 463-5500

Business Address 35-10 College Point Blvd

Business Fax: 718 762 0804

City Flushing

State NY

Zip 11354

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

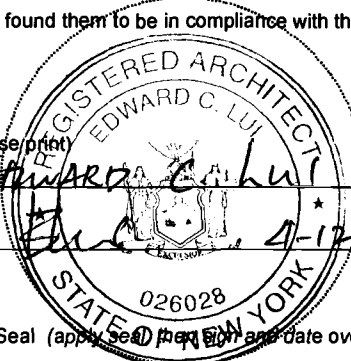
☒ I certify I have reviewed the concrete design mix(es) reported by the licensed testing lab and found them to be in compliance with the approved construction documents (BC 1905.6.3.3).

Name (please print)

EDWARD C. LUI

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 made a false statement or to have knowingly or negligently falsified or allowed to be falsified any certificate, form, signed statement, application, report or certification of the correction of a 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) KAM LI CHAN

Title OWNER

Signature [Signature]

Date 4/13/13

IMPACT

Concrete & Control Inspections, INC.

15-46 129th Street, College Point, New York 11356

Tel: (718) 939-7774 Fax: (718) 939-6444

The City of New York Department of Buildings Concrete Testing laboratory #64

CONCRETE MIX DESIGN REPORT

CLIENT:	Edward Lu i	DATE:	8/20/12
		LAB NO.:	2012-8-20-12
		MIX TYPE:	3/4 Pump Mix
Project:	Reference Mix for Impact's Client for Project 191-17 37th Avenue	Expire on	8/20/2013
Supplier:	Best Concrete Corp.	SAMPLED BY:	Impact
		DELIVERED BY:	Impact

4000 psi + 1200 A.E. Concrete Pump @ 28 Days

Product	Source & Type	ASTM	S.G.	NYS Source No.
Cement	Holcim Cement Co. Type-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	ASTM C33	2.66	
Coarse Agg.	Tilcon NY - Clinton Point (Both #67 & #57)	ASTM C33	2.81	
Water	NYC Potable	ASTM C94	1.00	
Admixture 1	BASF Admixtures- MBVR	ASTM C260	1.02	
Admixture 2	Euclid Plastol -5000	ASTM C494	1.12	
Admixture 3		-	-	-

Recommended Mix Design

Cement (lbs.)	660
Slag (lbs.)	
Fly Ash (lbs.)	
Microsilica (lbs.)	
Fine Agg. (lbs.)	1350
Coarse Agg. (lbs.)	1700
Water (gals.)	32.5
Admixture 1 (oz.)	2.6
Admixture 2 (oz.)	39.0
Admixture 3 (oz.)	
Slump (in.)	7" +/- 1"
Air Content (%)	6 % +/-1.5%
U. Wt. P.C.F.	148.0
W/C Ratio	0.41

#2

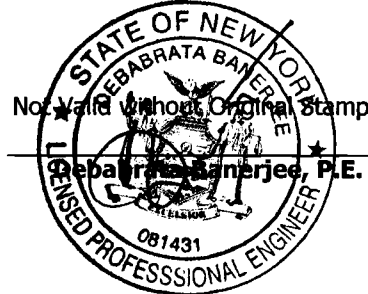
NYC Department of Building 27-605

Note: Need Batch Ticket with all truck

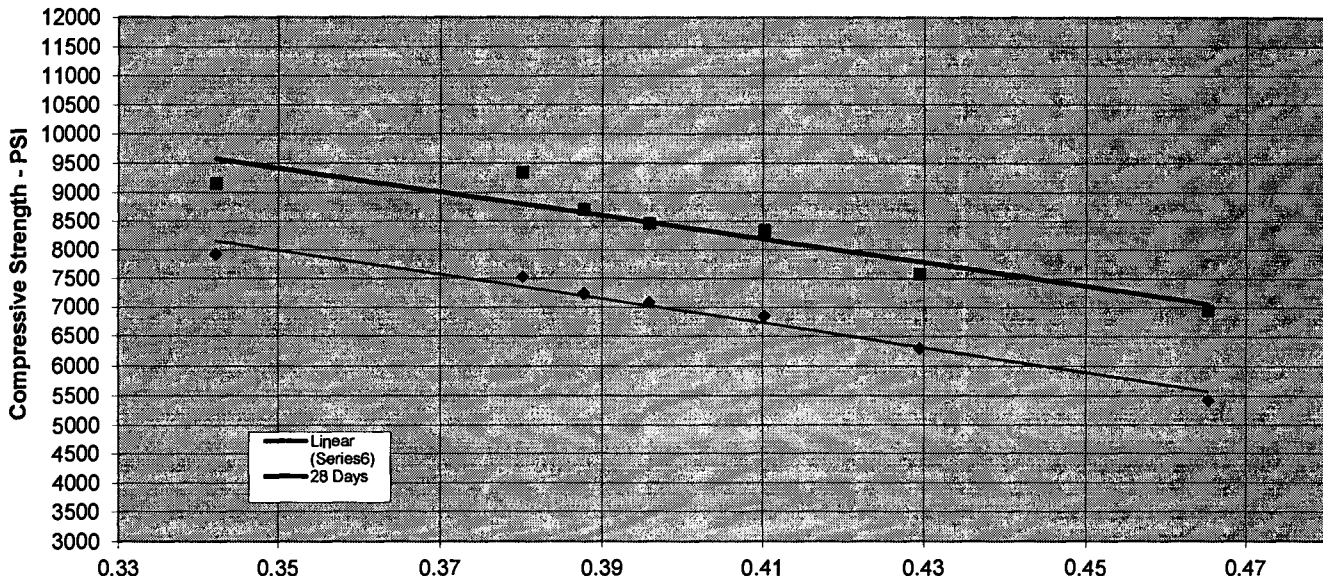
Owner must supply test results to Best ASAP

Only supplier can adjust admixture, acceleraor and Retardar with Field test data

Per NYC DOB Bulletin 2010-018 Dated 6-18-10 & Manufacturer's recommendation



Compressive Strength vs. Water Cement Ratio



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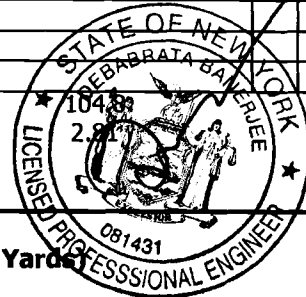
The City of New York Department of Buildings Concrete Testing laboratory #64
CONCRETE MIX DESIGN REPORT

CLIENT:	Edward Lu 0 0	DATE:	8/20/12
PROJECT:	Impact Concrete Reference Mix for Its Client 191-17 37th Avenue	LAB NO.:	2012-8-20-12
SUPPLIER:	Best Concrete Corp.	MIX TYPE:	3/4 Pump Mix
		METHOD:	Trial
		SAMPLED BY:	Impact
		DELIVERED BY:	Impact

4000 psi + 1200 A.E. Concrete Pump @ 28 Days

Aggregate Gradation Passing Percent Finer

Sieve Size	Fine Aggregates	Stone
2"	-	Pass #67 & 57
1 1/2"		100.00
1"		100.0
3/4"		96.40
1/2"		57.50
3/8"	100.0	32.40
# 4	99.7	6.2
# 8	95.2	2.4
# 16	83.5	
# 30	53.8	
# 50	14.4	
# 100	3.0	
FM	2.50	
Unit Weight Dry Rodded	102.0	
Specific Gravity	2.66	
Colometric Test	Plate # 1	



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

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	27.0	564	0	0	0	1430	1700	31.5	3.2	35.2		144.8	7.75	0.47	7.5
2	27.1	611	0	0	0	1400	1700	31.5	2.9	36.6		145.6	7.00	0.43	7.0
3	27.1	660	0	0	0	1350	1700	32.5	2.6	39.0		148.0	7.25	0.41	5.5
4	27.0	705	0	0	0	1270	1700	33.5	2.8	42.0		147.6	8.25	0.40	5.6
5	27.0	752	0	0	0	1200	1700	35.0	3.0	45.0		147.6	8.25	0.39	5.4
6	27.2	800	0	0	0	1150	1700	36.5	3.2	50.2		147.6	9.00	0.38	4.6
7	27.0	852	0	0	0	1110	1700	35.0	3.7	56.3		150.8	7.50	0.34	3.5

COMPRESSIVE STRENGTH RESULTS (ASTM C39) - P.S.I. (4" x 8" Cylinders)

Point	w/c ratio	7 Days Results	Average	28 Days Results	Average
1	0.47	5448	5413	7356	6951
2	0.43	6454	6145	7475	7585
3	0.41	7244	6454	8468	8339
4	0.40	7099	7089	8606	8465
5	0.39	7349	7147	8393	8713
6	0.38	7643	7429	9321	9349
7	0.34	7900	7966	9079	9164