

The TR3 is required prior to permit

1	Location Information <i>Required for all applications.</i>						
House No(s) 2461		Street Name BROADWAY					
Borough MANHATTAN		Block 1239	Lot 10	BIN 1033583		CB No. 107	
2	Applicant Information - Licensed Concrete Testing Lab <i>Required for all applications.</i>						
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		<input checked="" type="checkbox"/> P.E. <input type="checkbox"/> R.A.		Concrete Testing Lab Lic. Number 64			
3	Strength Requirements and Design <i>Required for all applications. Attach Trial Mixture Report and/or Field Experience Results.</i>						
				Mix #1	Mix #2	Mix #3	
Method of Determining Proportions (Trial Mixture and/or Field Experience)				<input checked="" type="checkbox"/> Trial Mix <input type="checkbox"/> Field Experience	<input type="checkbox"/> Trial Mix <input type="checkbox"/> Field Experience	<input type="checkbox"/> Trial Mix <input type="checkbox"/> Field Experience	
Date Trial Mixture Performed				5-7-18			
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	MCINNIS I/II	C-150	423 lbs.		lbs.	lbs.
Cementitious #2 (lbs)	Slag	Newcem Grade 120	C-989	285 lbs.		lbs.	lbs.
Cementitious #3 (lbs)				lbs.		lbs.	lbs.
Fine Aggregate (lbs)	Sand	Coram Sand	C-33	1280 lbs.		lbs.	lbs.
Coarse Aggregate #1 (lbs)	Stone # 67	Tilcon (Clinton Point)	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	32.1 gals.		gals.	gals.
Admixture #1 (oz)	Sika	Sika Air	C-260	3.5 oz		oz	oz
Admixture #2 (oz)	HRWR	Viscocrete 2100	C-494	39.5 oz		oz	oz
Admixture #3 (oz)				oz		oz	oz
Other	SUPPLIER MAY ADJUST	ADMIXTURE AS PER	NYC DOB				
Water-Cement Ratio	BULLETIN 2010-018			0.38			
Slump/Spread (inches ± tolerance)				8 ± 1"		±	±
Air Content (% ± tolerance)				6 %± 1.5		%±	%±
Unit Weight (lbs /ft³)				147.2 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.

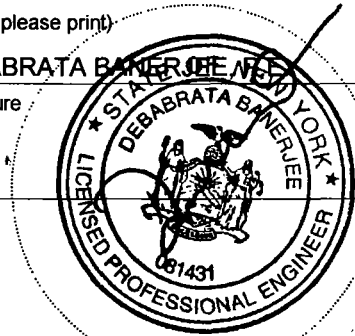
Name (please print)

DEBABRATA BANERJEE

Signature

Date

11-11-19



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) Alfredo Caruso

Title QC Manager

Signature

Date

11-12-19

NRMCA Certification Expiration Date (BC 1095.8.2) 08-27-20

Business Name Casa Redi mix Concrete Corp

Business Telephone (718) 589-1556

Business Address 888 Edgewater Road

Business Fax: (718) 589-9940

City Bronx

State NY

Zip 10474

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

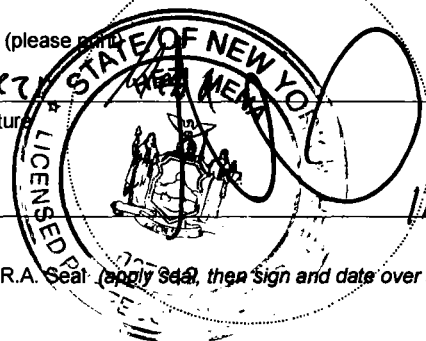
I certify I have reviewed the concrete design mix(es) reported by the licensed testing lab and found them to be in compliance with the approved construction documents (BC 1905.6).

Name (please print)

Signature

Date

P.E. / R.A. Seal (apply seal, then sign and date over seal)



11-15-19

7 Building Owner's Statement and Signature *Required for all applications.*

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Name (print)

Title

Signature

Date

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: DEFALCO

DATE: 5/7/18

LAB NO.: 2018-P Slag Air

MIX TYPE: Trial

Expire on: 5/7/2020

SAMPLED BY: Impact

DELIVERED BY: Impact

Project: QC mix 2016-18

2461 BROADWAY

Supplier: CASA Redi mix

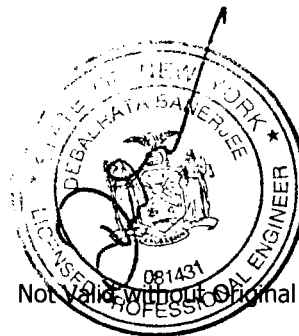
6000 psi + 1300 A.E. Concrete Pump 40% Slag @ 28 Days

Product	Source & Type	ASTM	S.G.	NYS Source No.
Cement	McInnis Cement 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 Sand	ASTM C33	2.63	
Coarse Agg.	Tilcon NY - Clinton Point	ASTM C33	2.81	
Water	NYC Potable	ASTM C94	1.00	
Admixture 1	SIKA - SIKA Air	ASTM C260	1.02	
Admixture 2	Sika -Viscocrete 2100	ASTM C494	1.10	
Admixture 3				

Recommended Mix Design

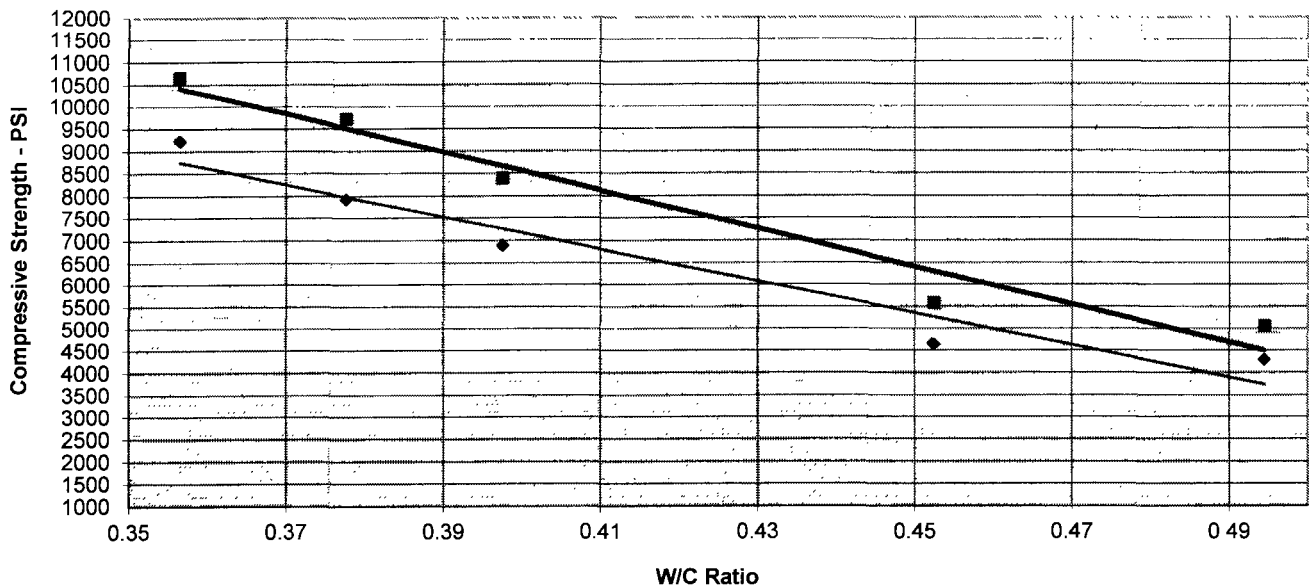
#4

Cement (lbs.)	423
Slag (lbs.)	285
Fly Ash (lbs.)	
Microsilica (lbs.)	
Fine Agg. (lbs.)	1280
Coarse Agg. (lbs)	1700
Water (gals.)	32.1
Admixture 1 (oz.)	3.5
Admixture 2 (oz.)	39.5
Admixture 3 (oz.)	
Slump (in.)	8" +/- 1"
Air Content (%)	6 % +/-1.5%
U. Wt. P.C.F.	147.2
W/C Ratio	0.38



Debabrata Banerjee, P.E.

Compressive Strength vs. Water Cement Ratio



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CONCRETE MIX DESIGN REPORT

CLIENT:	DEFALCO	DATE:	5/7/18
	0	LAB NO.:	2018-P Slag Air
	0	MIX TYPE:	Trial
PROJECT:	QC mix 2016-18	METHOD:	5/7/2020
	2461 BROADWAY	SAMPLED BY:	Impact
SUPPLIER:	CASA Redi mix	DELIVERED BY:	Impact

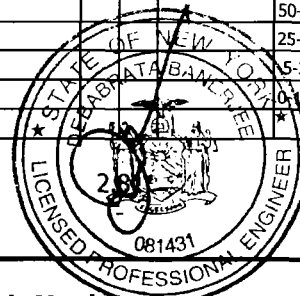
6000 psi + 1300 A.E. Concrete Pump 40% Slag @ 28 Days

Aggregate Gradation Passing Percent Finer

Sieve Size	Fine Aggregates	#67 Stone	C-33#67	C-33	C-33 #57
2"	-	-			
1 1/2"		100.0			100
1"		100.0	100.00	Sand	95-10
3/4"		90.4	90-100		
1/2"		36.9			25-60
3/8"	100.0	20.1	20-55	100	
# 4	99.7	2.0	0-10	95-100	0-10
# 8	93.9	0.6	0-5	80-100	0-5
# 16	82.4			50-85	
# 30	53.4			25-60	
# 50	10.8			5-30	
# 100	0.9			0-10	
FM	2.59				

Unit Weight Dry Rodded
Specific Gravity
Colometric Test

2.63
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	27.0	324	216	0	0	1420	1700	32.1	2.0	32.1	0.0	147.4	7.00	0.49	5.2
2	27.0	348	232	0	0	1400	1700	31.5	2.9	34.1	0.0	147.2	8.00	0.45	5.3
3	27.0	396	264	0	0	1330	1700	31.5	3.3	36.3	0.0	148.2	8.50	0.40	5.0
4	27.0	423	285	0	0	1280	1700	32.1	3.5	39.5	0.0	147.2	8.75	0.38	5.1
5	27.0	450	300	0	0	1240	1700	32.1	3.9	42.5	0.0	148.6	9.00	0.36	4.5

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	0.49	4297	4285	4291	4924
2	0.45	4920	4363	4642	5134
3	0.40	6876	6899	6888	8992
4	0.38	8085	7776	7931	10094
5	0.36	9247	9221	9234	10783

Point	w/c ratio	3 Days Results	Average	56 Days Results	Average
1	0.49	2889	3162	3026	#DIV/0!
2	0.45	3380	3531	3456	#DIV/0!
3	0.40	5697	5710	5704	#DIV/0!
4	0.38	6795	6314	6555	#DIV/0!