



TR3: Technical Report
Concrete Design Mix
Must be typewritten

DEPT BLDGS Job No. 121902003



The TR3 is required prior to permit

1 Location Information Required for all applications.

House No(s) 303 Street Name 9th Avenue (Work for 11/12/14 & Onwards Only)
Borough Manhattan Block 724 Lot 82 BIN 1012830 CB No. 104

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	☐ Trial Mix	☐ Trial Mix
				☒ Field Experience	☐ Field Experience	☐ Field Experience
Date Trial Mixture Performed				2-15-14		
Specified Strength (f_c)				4000 PSI	PSI	PSI
Required Strength (f_{cr})				5200 PSI	PSI	PSI
Specified Test Age (Days)				28 (P)		
	Material Type	Material Source	ASTM Standard			
Cementitious #1 (lbs)	Cement	Lehigh-i/ii	C150	348 lbs.	lbs.	lbs.
Cementitious #2 (lbs)	Slag	Lehigh- Allcem	C989	232 lbs.	lbs.	lbs.
Cementitious #3 (lbs)				lbs.	lbs.	lbs.
Fine Aggregate (lbs)	Sand	LI Natural	C33	1365 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	Stone	Tilcon	C33	1750 lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)				lbs.	lbs.	lbs.
Coarse Aggregate #3 (lbs)				lbs.	lbs.	lbs.
Amount of Water (gals)	Water	NYC	C94	31.5 gals.	gals.	gals.
Admixture #1 (oz)	AIR	Sika Air	C260	0.8 oz	oz	oz
Admixture #2 (oz)	HRWR	BASF Glennium 750	C494	40.0 oz	oz	oz
Admixture #3 (oz)				oz	oz	oz
Other	Supplier may adjust	admixture as per	NYC DOB			
Water-Cement Ratio	bulletin 2010-018	Tags: 66801-840		0.45		
Slump (inches $\pm$ tolerance)				8 $\pm$ 1	$\pm$	$\pm$
Air Content (% $\pm$ tolerance)				6 $\pm$ 1.5	% $\pm$	% $\pm$
Unit Weight (lbs./ft ³)				146. 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.

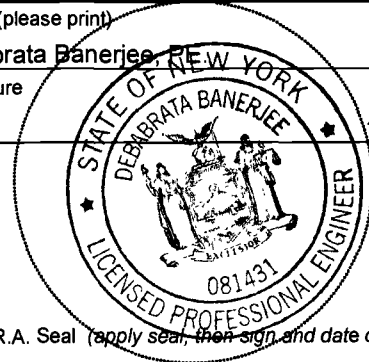
Name (please print)

Debabrata Banerjee, P.E.

Signature

Date

11-12-14



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) Arthur George Reis

Title President

Signature

Date 11/19/14

NRMCA Certification Expiration Date (BC 1905.8.2) 9-18-2015

Business Name NYCON supply

Business Telephone (718) 433-0111

Business Address 47-17 27th Street

Business Fax: (718) 433-1453

City LIC

State NY

Zip 11101

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

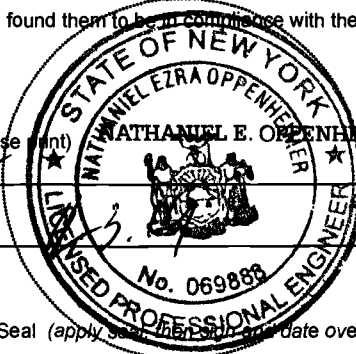
☒ I certify I have reviewed the concrete design mix(es) reported by the licensed testing lab and found them to be in compliance with the approved construction documents (BC 1905.6.3.3).

Name (please print)

NATHANIEL E. OPPENHEIMER

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.

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Name (print) Mahendra Patel Title Program Dir. / PPC

Signature

Date

12/18/14

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 #000064
CONCRETE MIX DESIGN REPORT

CLIENT:	Premier Concrete Services Inc 584 Ardsley Boulevard Garden City, New York 11530	DATE:	2/15/2014
Project:	Impact Reference Mix 303 9th Avenue (Work for 11/12/14 & Onwards Only)	LAB NO.:	2014-2-15-14P
Supplier:	NYCON	MIX TYPE:	Trial
		Date Expire:	2/15/2016
		SAMPLED BY:	Impact
		DELIVERED BY:	Impact

4000 psi + 1200 A.E. Concrete Pump with 28 days Results

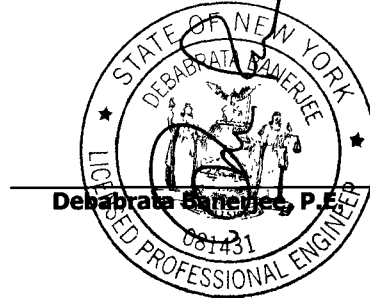
Product	Source & Type	ASTM	S.G.	NYS Source No.
Cement	Lehigh- Type -I/II	ASTM C150	3.15	
Slag	Lehigh- Allcem	ASTM C989	2.88	
Fly Ash	-	ASTM C618	2.20	
Silica Fume	-	ASTM C1240	2.20	
Fine Agg.	LI Natural	ASTM C33	2.64	
Coarse Agg.	Ticon NY- Clinton Point	ASTM C33	2.80	
Water	NYC Potable	ASTM C94	1.00	
Admixture 1	Sika- Sika -AIR	ASTM C260	1.03	
Admixture 2	BASF Glennium 7500	ASTM C494	1.05	
Admixture 3				

Recommended Mix Design

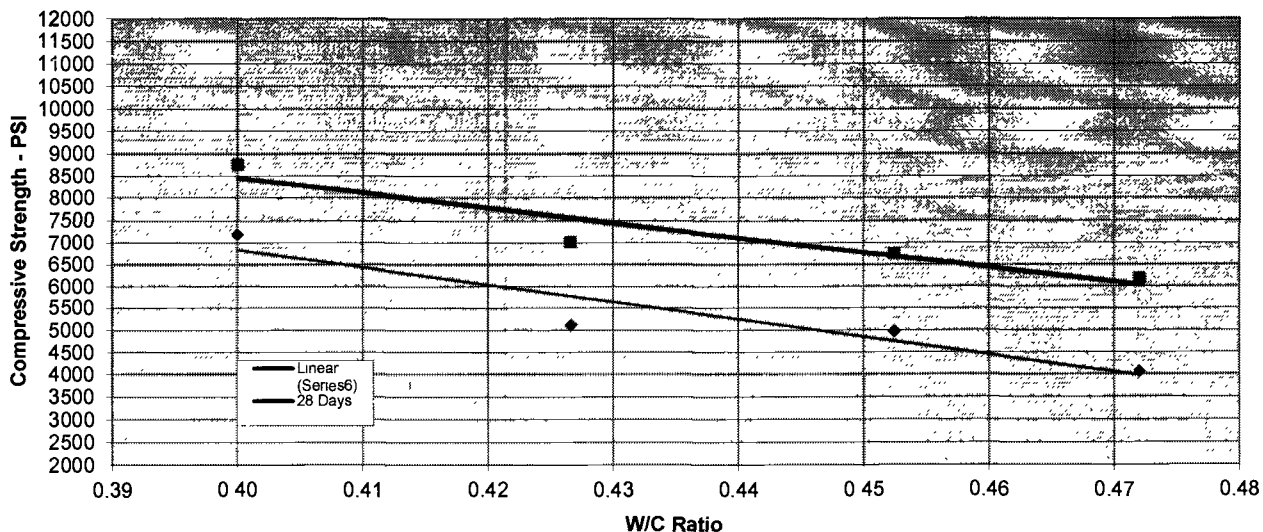
2 NYC Department of Building 27-605

Cement (lbs.)	348
Slag (lbs.)	232
Fly Ash (lbs.)	0
Microsilica (lbs.)	0
Fine Agg. (lbs.)	1365
Coarse Agg. (lbs)	1750
Water (gals.)	31.5
Admixture 1 (oz.)	0.8
Admixture 2 (oz.)	40.0
Admixture 3 (oz.)	
Slump (in.)	8" +/- 1.0"
Air Content (%)	6 % +/-1.5%
U. Wt. P.C.F.	146.8
W/C Ratio	0.45

Supplier can adjust admixture per NYC DOB bulletin 2010-018



Compressive Strength vs. Water Cement Ratio



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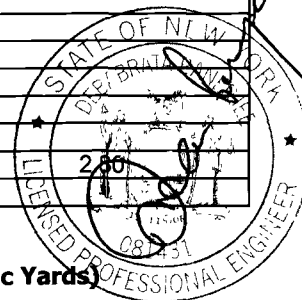
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		METHOD:	trial
		SAMPLED BY:	Impact
		DELIVERED BY:	Impact

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Aggregate Gradation Passing Percent Finer

Sieve Size	F.A.	3/4 Stone
2"		
1 1/2"		100.00
1"		100.0
3/4"		90.10
1/2"		26.30
3/8"	100.0	20.70
# 4	98.4	0.7
# 8	91.0	0.2
# 16	79.1	
# 30	55.7	
# 50	17.1	
# 100	3.5	
FM		
Unit Weight Dry Rodded		
Specific Gravity	2.64	
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	324	216	0	0	1400	1750	30.6	0.4	38.0	0.0	148.2	7.75	0.47	5.0
2	27.2	348	232	0	0	1365	1750	31.5	0.8	40.0	0.0	146.8	8.25	0.45	5.5
3	27.2	396	264	0	0	1250	1750	33.8	0.9	46.0	0.0	150.0	9.00	0.43	4.8
4	27.3	423	285	0	0	1225	1750	34.0	1.1	46.5	0.0	150.4	8.75	0.40	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	0.47	4040	4092	6050	6188
2	0.45	4982	4970	7013	6770
3	0.43	5164	5079	7261	7033
4	0.40	7225	7180	8985	8768

Point	w/c ratio	3 Days Results	Average	56 Days Strength	Average
1	0.47	2966	2672	#DIV/0!	
2	0.45	3545	3105	#DIV/0!	
3	0.43	4737	4412	#DIV/0!	
4	0.40	5458	6085	#DIV/0!	

Tag Used : 66801-840

Same Gradation Was used for Multiple Mix . Admixture was in stock not Picked up

Same proportions was used since this mix had no complain on 2012 .