

TR3 rev. 02/19/15

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, P.E.

Signature

Date

11-10-15



P.E. / R.A. Seal (attach 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) Philip Mazzone

Title

Signature

Date

11/12/2015

NRMCA Certification Expiration Date (BC 1095.8.2) 10/20/15

Business Name Kings Ready Mix

Business Telephone (718) 438-6800

Business Address 692 McDonald Avenue

Business Fax: (718) 436-6418

City Brooklyn

State NY

Zip 11218

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

11-16-15

Date



P.E. / R.A. Seal (attach 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)

ARTHUR LIGHTHALL

Title

GM

Signature

Date

12/2/15

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:	Daniel	DATE:	8-5&6 -14
		LAB NO.:	2014-8-5-14
		MIX TYPE:	Trial
Project:	Impact Reference Mix	Expire on	8/5/2016
	15 Doris Lane Queens (for work 11-10-15 & onwards only)	SAMPLED BY:	Kings
Supplier:	Kings Ready Mix	Picked Up	Kings

4500 psi + 1200 psi A.E. Concrete Pump/Conv @ 28 Days

Product	Source & Type	ASTM	S.G.	NYS Source No.
Cement	Lafarge Type I/II	ASTM C150	3.15	
Slag	-	ASTM C989	2.88	-
Fly Ash	Fly Ash -Pro Ash	ASTM C618	2.20	-
Silica Fume	-	ASTM C1240	2.20	-
Fine Agg.	LI Natural/Coram Material	ASTM C33	2.63	-
Coarse Agg.	Tilcon/West Nyack	ASTM C33	2.80	-
Water	NYC Potable	ASTM C94	1.00	-
Admixture 1	Sika AIR	ASTM C260	1.00	-
Admixture 2	Viscocrete 2100	ASTM C494	1.10	-
Admixture 3	Sikatard 440	ASTM C494	-	-

Recommended Mix Design

4

Kings To supply Batch ticket with all truck

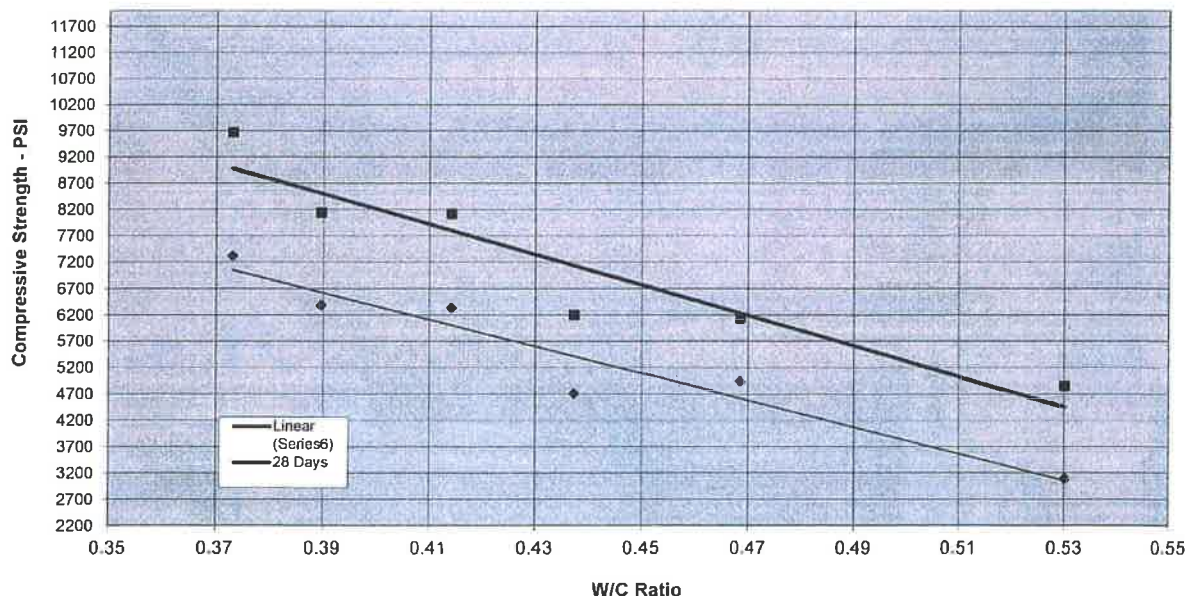
Cement (lbs.)	485
Slag (lbs.)	0
Fly Ash (lbs.)	150
Microsilica (lbs.)	
Fine Agg. (lbs.)	1320
Coarse Agg. (lbs)	1720
Water (gals.)	31.6
Admixture 1 (oz.)	2.2
Admixture 2 (oz.)	34.9
Admixture 3 (oz.)	12.7
Slump (in.)	8.0"±1.0"
Air Content (%)	5.5 % ±1.5%
U. Wt. P.C.F.	145.9
W/C Ratio	0.41

As per NYC Bulletin 2010-018 Hydration Control Admixture Sikatard 440 may be added to the mix per manufacturer's recommendation to extend the hauling time as well as using it in Hot Weather. Non chloride accelerator Sika SET AC can be added as per manufacturer's recommendation for Cold Weather Concrete Procedures.



(3.0" Max before Adding HRWR) Debabrata Banerjee, P.E.

Compressive Strength vs. Water Cement Ratio



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CONCRETE MIX DESIGN REPORT

CLIENT:	Daniel 0 0	DATE:	8-5&6 -14
PROJECT:	Impact Reference Mix 15 Doris Lane Queens (for work 11-10-15 & onwards only)	LAB NO.:	2014-8-5-14
SUPPLIER:	Kings Ready Mix	MIX TYPE:	Trial
		Expire on	8/5/2016
		SAMPLED BY:	Kings
		DELIVERED BY:	Kings

4500 psi + 1200 psi A.E. Concrete Pump/Conv @ 28 Days

**Aggregate Gradation
Passing Percent Finer**

Sieve Size	F.A.	#57 Stone
2"		
1 1/2"		100.00
1"		100.0
3/4"		88.70
1/2"		25.00
3/8"	100.0	6.30
# 4	99.8	0.80
# 8	93.6	
# 16	79.9	
# 30	52.0	
# 50	14.1	
# 100	3.1	
FM	2.58	
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	Unit Wt.	Slump(in)	W/C	Air %
1	27.1	375	0	120	0	1440	1720	31.5	1.4	24.7	N/A	145.9	7.00	0.53	6.5
2	27.1	430	0	130	0	1390	1720	31.5	2.0	27.5	11.2	150.0	7.25	0.47	5.5
3	27.1	460	0	140	0	1350	1720	31.5	2.1	30.0	12.0	148.0	7.50	0.44	6.0
4	27.1	485	0	150	0	1320	1720	31.6	2.2	34.9	12.7	151.6	8.00	0.41	4.8
5	27.1	520	0	155	0	1280	1720	31.6	2.4	40.5	13.5	151.2	8.50	0.39	5.0
6	27.1	540	0	165	0	1250	1720	31.6	2.5	45.8	14.1	152.0	9.00	0.37	4.5

COMPRESSIVE STRENGTH RESULTS (ASTM C39) - P.S.I. (4" x 8" Cylinders) (3 & 28 Days)

Point	w/c ratio	7 Days Results		Average	28 Days Results			Average
1	0.53	3233	2947	3090	4854	4921	4759	4845
2	0.47	5001	4865	4933	6230	6152	6047	6143
3	0.44	4582	4829	4706	6247	6329	6024	6200
4	0.41	6388	6288	6338	8268	8221	7865	8118
5	0.39	6414	6356	6385	7873	7919	8625	8139
6	0.37	7501	7132	7317	9574	9539	9889	9667

Point	w/c ratio	3 Days Results		Average	56 Days Results			Average
1	0.53	2686	2392	2539	4888	4808		4848
2	0.47	4002	3778	3890	6703	6626		6665
3	0.44	3887	3980	3934	6332	6406		6369
4	0.41	5541	5421	5481	8262	8054		8158
5	0.39	6612	6319	6466	9547	8608	8941	9032
6	0.37	7363	6870	7117	10674	10125	10821	10540

Tag Used: 8415-85760

Note: Same proportions was used as 2012 sinnce no customer complain . Same gradation was used for multiple mix