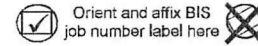




TR3: Technical Report
Concrete Design Mix
Must be typewritten.



The TR3 is required prior to permit

1 Location Information *Required for all applications.*

House No(s) 40	Street Name West 12 Road
Borough Queens	Block 15317 Lot 13 BIN 4310995 CB No. 414

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 7189397774	
Business Address 15-46 129TH STREET	Business Fax 7189396444	
City COLLEGE POIN State NEW YORK Zip 11356	Mobile Telephone 9175777540	
E-Mail DBANER@GMAIL.COM		
Director's Lic. Number 081431	☒ P.E. ☐ R.A.	Concrete Testing Lab Lic. Number 64

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	06-24-15		
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	625 lbs.	lbs.	lbs.
Cementitious #2 (lbs)				lbs.	lbs.	lbs.
Cementitious #3 (lbs)				lbs.	lbs.	lbs.
Fine Aggregate (lbs)	Sand	LI Natural	C-33	1425 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)				lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)	Stone	Tilcon # 8	C-33	1725 lbs.	lbs.	lbs.
Coarse Aggregate #3 (lbs)				lbs.	lbs.	lbs.
Amount of Water (gals)	Water	NYC	C-94	28.5 gals.	gals.	gals.
Admixture #1 (oz)	Air	Sika Air	C-260	2.2 oz	oz	oz
Admixture #2 (oz)	HRWR	Sika Viscocrete-2100	C-494	29.7 oz	oz	oz
Admixture #3 (oz)	WR	Sikatard 440	C-494	11.7 oz	oz	oz
Other	Supplier may adjust	admixture as per	NYC DOB			
Water-Cement Ratio	bulletin 2010-018			0.38		
Slump/Spread (inches ± tolerance)				7.5 ± 1.5	±	±
Air Content (% ± tolerance)				5.5 %± 1.5	%±	%±
Unit Weight (lbs./ft ³)				151 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 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

01-31-17



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) Philip Mazzone

Title

Signature

Date 2/8/17

NRMCA Certification Expiration Date (BC 1095.8.2)

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)

Anthony Portillo

Feb. 7, 2017

Signature

Date

P.E. / R.A. Seal (

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 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) Maryann Nellen

Title Home Owner

Signature

Date 2/9/17

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: Ducky Johnson Home Elevations LLC **DATE:** 6/24/15
LAB NO.: 2015-6-24-15-CEM
MIX TYPE: Trial
Project: Impact Concrete Reference Mix for Its Client
 40 West 12 Road
Supplier: Kings Ready Mix **DELIVERED BY:** Kings

4000 psi + 1200 A.E. Normal Wt Concrete Pump @ 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		ASTM C618	2.20	
Silica Fume	-	ASTM C1240	2.20	
Fine Agg.	LI Natural	ASTM C33	2.63	
Coarse Agg.	Tilcon (#57)	ASTM C33	2.87	
Water	NYC Potable	ASTM C94	1.00	
Admixture 1	Sika - Sika Air	ASTM C260	1.1	
Admixture 2	Sika - Sikament 686	ASTM C494	1.10	Type A & F
Admixture 3	Sika - Viscocrete 2100			
Admixture 4	Sika - Sikatard 440			

Recommended Mix Design

4

Cement (lbs.)	625
Slag (lbs.)	0
Fly Ash (lbs.)	
Microsilica (lbs.)	
Fine Agg. (lbs.)	1425
Coarse Agg. (lbs.)	1725
Water (gals.)	28.5
Admixture 1 (oz.)	2.2
Admixture 2 (oz.)	0.0
Admixture 3 (oz.)	29.7
Admixture 4 (oz.)	11.7
Slump (in.)	7.5" +/- 1.5" (3.0" slump before adding HRWR)
Air Content (%)	5.5 % +/-1.5%
U. Wt. P.C.F.	151.0
W/C Ratio	0.38

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 NC can be added as per manufacturer's recommendation for Cold Weather Concrete Procedures.

Not Valid without Original Stamp

Debabrata Banerjee, P.E.

Compressive Strength vs. Water Cement Ratio

