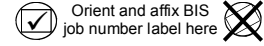




TR3: Technical Report Concrete Design Mix

Must be typewritten.



The TR3 is required prior to permit

1 Location Information Required for all applications.

House No(s) 2189	Street Name ARTHUR AVENUE			
Borough BRONX	Block 3063	Lot 58	BIN 2011866	CB No. 206

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 18-30 129TH STREET		Business Fax (718) 939-6444
City College Point	State NEW YORK	Zip 11356
E-Mail DBANER@GMAIL.COM		Mobile Telephone (917) 577-7540
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 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	1-4-21	1-4-21	
Specified Strength (f' c)	5000	6000	
Required Strength (f' cr)	6200	7300	
Specified Test Age (Days)	28	28	

	Material Type	Material Source	ASTM Standard					
Cementitious #1 (lbs)	Cement	Essex Type I/II	C-150	660	lbs.	700	lbs.	lbs.
Cementitious #2 (lbs)					lbs.		lbs.	lbs.
Cementitious #3 (lbs)					lbs.		lbs.	lbs.
Fine Aggregate (lbs)	Sand	LI Natural	C-33	1330	lbs.	1280	lbs.	lbs.
Coarse Aggregate #1 (lbs)	Stone	Tilcon	C-33	1700	lbs.	1700	lbs.	lbs.
Coarse Aggregate #2 (lbs)					lbs.		lbs.	lbs.
Coarse Aggregate #3 (lbs)					lbs.		lbs.	lbs.
Amount of Water (gals)	Water	NYC	C-94	31.0	gals.	32.1	gals.	gals.
Admixture #1 (oz)	Air	Euclied AEA92	C-260	1.0	oz	1.2	oz	oz
Admixture #2 (oz)	HRWR	Euclied Plastol 5000	C-494	42.0	oz	47.3	oz	oz
Admixture #3 (oz)	Supplier can adjust	admixture as per			oz		oz	oz
Other								
Water-Cement Ratio				0.39		0.38		
Slump/Spread (inches ± tolerance)				8.0 ± 1"		8.0 ± 1"		±
Air Content (% ± tolerance)				6.0 %± 1.5		6.0 %± 1.5		%±
Unit Weight (lbs./ft³)	Theoretical wt			147.2 lbs./ft³		149.2 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 P.E.

Signature

Date

03-18-21

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) Mario Mastronardi

Title President

Signature *Mario Mastronardi* Date 03/23/21

NRMCA Certification Expiration Date (BC 1095.8.2) 4-25-22

Business Name Melrose Building Materials

Business Telephone (718) 665-9100

Business Address 411 East 163rd Street

Business Fax: 7186657744/ mastroconic1@aol.com

City Bronx

State NY

Zip 10451

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)

YUBUN AUYEUNG

Signature

Date

3/22/2021

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 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) JOEL MITTLEMAN

Title Owner

Signature *Joel Mittleman*

Date 3/23/2021

IMPACT

Concrete & Control Inspections, INC.

18-30 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: SKYWARD DEVELOPERS

DATE: 1/4/21

LAB NO.: 2021-1-4-21 NW

MIX TYPE: Trial

Project: 2189 ARTHUR AVENUE

SAMPLED BY: Impact

Supplier: Melrose Building Material

DELIVERED BY: Impact

5000 psi + 1200 A.E. Concrete Pump @ 28 Days

Product	Source & Type	ASTM	S.G.	NYS Source No.
Cement	Esex - 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	ASTM C33*	2.80	
Water	NYC	ASTM C94	1.00	
Admixture 1	Euclie AEA92	ASTM C260	1.02	
Admixture 2	Plastol 500	ASTM C494	1.12	
Admixture 3		-	-	

Recommended Mix Design

#2

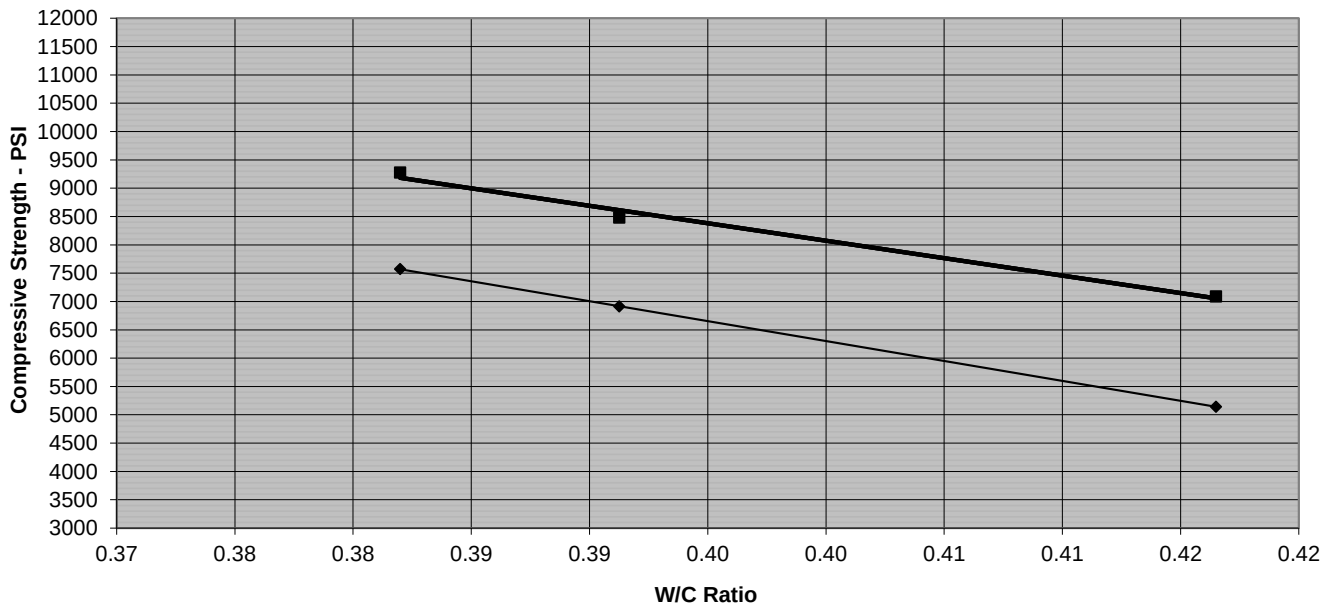
Cement (lbs.)	660
Slag (lbs.)	0
Fly Ash (lbs.)	0
Microsilica (lbs.)	0
Fine Agg. (lbs.)	1330
Coarse Agg. (lbs.)	1700
Water (gals.)	31.0
Admixture 1 (oz.)	1.0
Admixture 2 (oz.)	42.0
Admixture 3 (oz.)	
Slump (in.)	8" +/- 1"
Air Content (%)	6 % +/- 1.5%
U. Wt. P.C.F.	147.2
W/C Ratio	0.39

Theoretical Unit Wt



Debabrata Banerjee, P.E.

Compressive Strength vs. Water Cement Ratio



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METHOD: Trial

SAMPLED BY: Impact

DELIVERED BY: Impact

PROJECT: 2189 ARTHUR AVENUE
0

SUPPLIER: Melrose Building Material

5000 psi + 1200 A.E. Concrete Pump @ 28 Days

**Aggregate Gradation
Passing Percent Finer**

Sieve Size 2"	Fine Aggregates				Stone			
1 1/2"					100.00			
1"					100.0			
3/4"								
1/2"					25.70			
3/8"				100.0				
# 4				96.7	4.9			
# 8				93.5	1.8			
# 16				82.2				
# 30				50.8				
# 50				12.9				
# 100				2.7				
FM				2.61				

Unit Weight Dry Rodded

Specific Gravity

Colometric Test

2.63
Plate # 1

Used Sample

TRIAL MIXES - DRY BATCH WEIGHTS (lbs./Cub. Ft.)

Point	Yield	Cement	Slag	FlyAsh	Silica	F.A.	C.A.*	Water	Adx 1	Adx 2	Adx 3	Unit Wt. (lb/cu ft)	W/C	Air %	
1	27.0	600	0	0	0	1410	1700	30.0	1.0	37.8		147.4	8.50	0.42	7.5
3	27.0	660	0	0	0	1330	1700	31.0	1.0	42.0		147.2	8.50	0.39	7.4
4	27.0	700	0	0	0	1280	1700	32.1	1.2	47.3		149.2	8.25	0.38	4.6

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	0.42	4975	5310	5143	7367	6841	7067		7092
2	0.39	6673	7152	6913	8280	8294	8865		8480
3	0.38	7523	7620	7572	9273	9376	9187		9279
Point	w/c ratio	3 Days Results		Average					
1	0.42	5204	5220	5212					
2	0.39	6278	6356	6317					
3	0.38	7081	6913	6997					

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Recommended Mix Design

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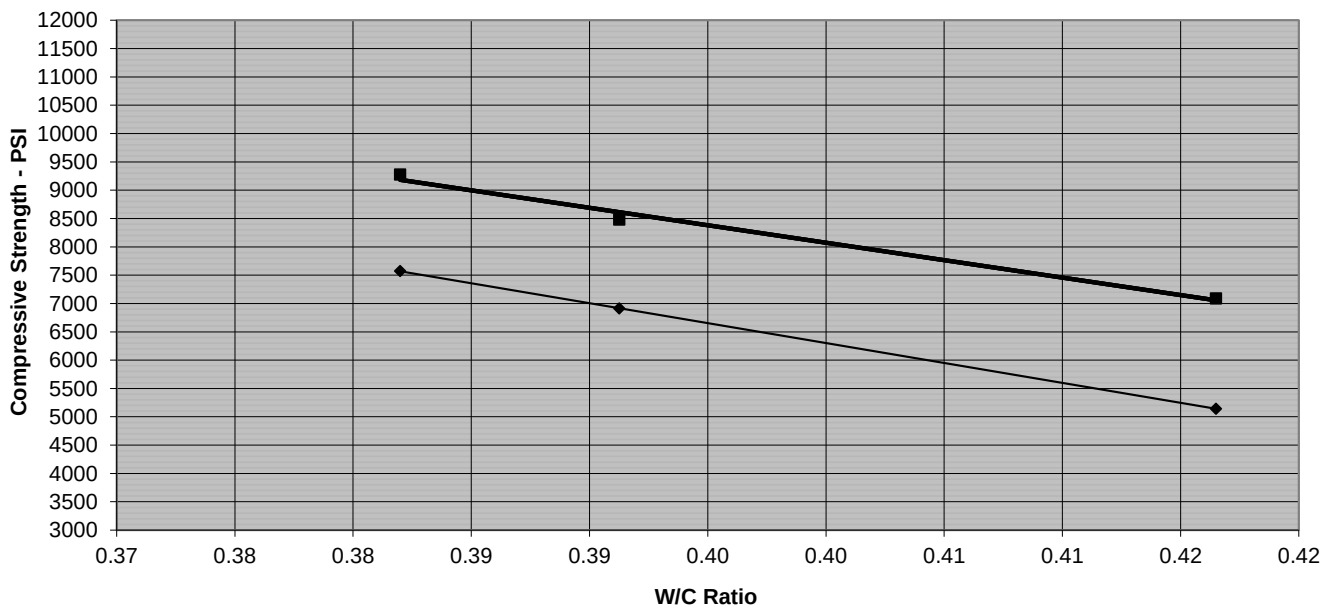
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Slag (lbs.)	0
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Microsilica (lbs.)	0
Fine Agg. (lbs.)	1280
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Water (gals.)	32.1
Admixture 1 (oz.)	1.2
Admixture 2 (oz.)	47.3
Admixture 3 (oz.)	
Slump (in.)	8" +/- 1"
Air Content (%)	6 % +/-1.5%
U. Wt. P.C.F.	149.2
W/C Ratio	0.38



Not Valid Without Original Stamp

Debabrata Banerjee, P.E.

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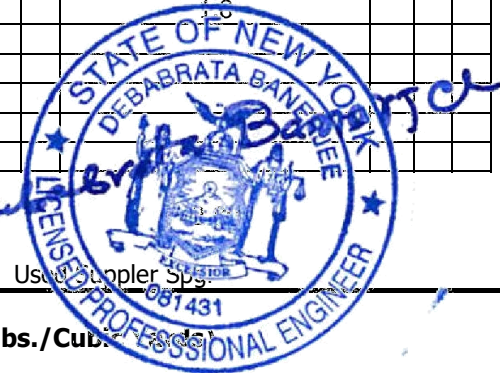
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Passing Percent Finer**

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Unit Weight Dry Rodded
Specific Gravity
Colometric Test

2.63
Plate # 1

Used Supplier Sp.



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