

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

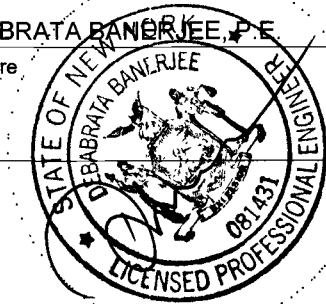
Name (please print)

DEBABRATA BANERJEE, P.E.

Signature

Date

06-05-15



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)	Title
Signature	Date
Business Name Melrose Building Materials	NRMCA Certification Expiration Date (BC 1095.8.2)
Business Address 411 East 163rd Street	Business Telephone 718-665-9100
City Bronx	Business Fax: 718-665-7765
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.*

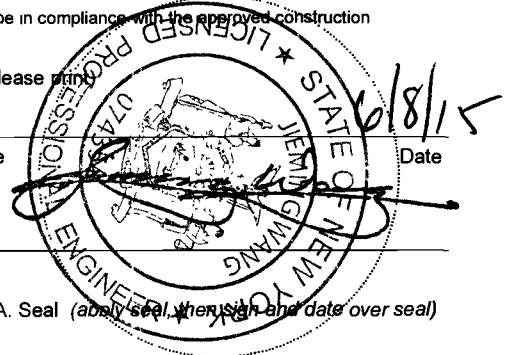
I certify I have reviewed the concrete design mix(es) reported by the licensed testing lab and found them to be in compliance with the approved construction documents (BC 1905.6)

Name (please print)

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.*

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)

Athanasios Giovanis

Title

Owner

Signature

Date

6/8/15

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:	Metric Consulting	DATE:	3/16/15
		LAB NO.:	2015-3-16-15NW
		MIX TYPE:	Trial
Project:	Impact Reference Mix	SAMPLED BY:	Impact
	14-33 31st Avenue (Work for 6/5/15 & Onwards Only)	DELIVERED BY:	Impact
Supplier:	Melrose Building Material		

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

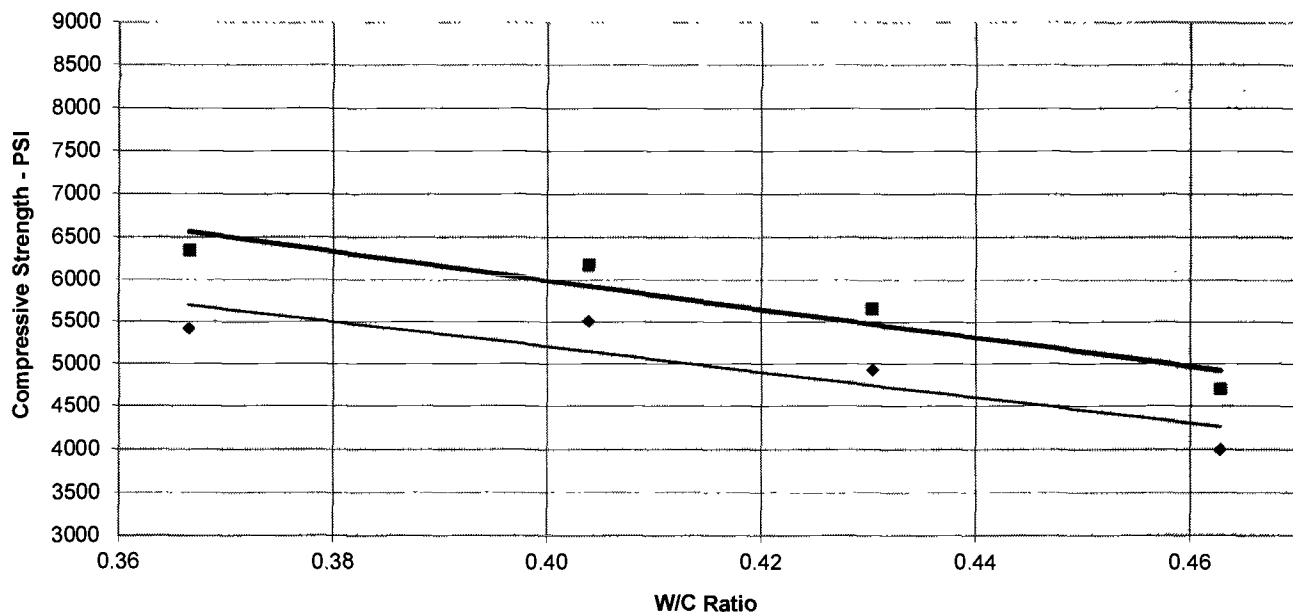
Product	Source & Type	ASTM	S.G.	NYS Source No.
Cement	Holcim -I/II	ASTM C150	3.15	
Slag		ASTM C989	2.88	
Fly Ash		ASTM C618	2.20	
Silica Fume		ASTM C1240	2.20	
Fine Agg.	LI Natural	ASTM C33	2.63	
Coarse Agg.	Tilcon	ASTM C33*	2.80	
Water	NYC	ASTM C94	1.00	
Admixture 1	MBAE-90	ASTM C260	1.02	
Admixture 2	BASF- Glenium 7500	ASTM C494	1.12	
Admixture 3				

Recommended Mix Design #5

Cement (lbs.)	750
Slag (lbs.)	
Fly Ash (lbs.)	0
Microsilica (lbs.)	
Fine Agg. (lbs.)	1220
Coarse Agg. (lbs.)	1725
Water (gals.)	33.0
Admixture 1 (oz.)	2.2
Admixture 2 (oz.)	52.5
Admixture 3 (oz.)	
Slump (in.)	8" +/- 1"
Air Content (%)	6 % +/-1.5%
U. Wt. P.C.F.	146.0
W/C Ratio	0.37



Compressive Strength vs. Water Cement Ratio



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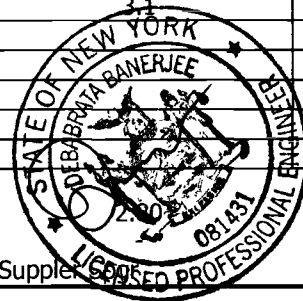
Tel: (718) 939-7774 Fax: (718) 939-6444

The City of New York Department of Buildings Concrete Testing laboratory #64
CONCRETE MIX DESIGN REPORT

CLIENT:	Metric Consulting 0 0	DATE:	3/16/15
PROJECT:	Impact Concrete Reference Mix for Its Client 14-33 31st Avenue (Work for 6/5/15 & Onwards Only)	LAB NO.:	2015-3-16-15NW
SUPPLIER:	Melrose Building Material	MIX TYPE:	Trial
		METHOD:	Trial
		SAMPLED BY:	Impact
		DELIVERED BY:	Impact
5000 psi + 1200 A.E. Concrete Pump @ 28 Days			

Aggregate Gradation Passing Percent Finer

Sieve Size	Fine Aggregates	Stone
2"	-	-
1 1/2"		100.00
1"		100.0
3/4"		
1/2"		25.60
3/8"	100.0	
# 4	96.7	4.6
# 8	85.6	3.1
# 16	72.5	
# 30	52.5	
# 50	10.2	
# 100	1.8	
FM	2.81	
Unit Weight Dry Rodded		
Specific Gravity	2.63	
Colometric Test	Plate # 1	



Used Supplier

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	540	0	0	0	1450	1725	30.0	1.8	45.0		146.0	8.00	0.46	5.4
2	27.2	600	0	0	0	1400	1725	31.0	1.9	49.0		147.2	8.25	0.43	5.2
3	27.2	660	0	0	0	1320	1725	32.0	1.9	50.0		147.6	8.25	0.40	5.0
3	27.1	750	0	0	0	1220	1725	33.0	2.2	52.5		146.0	8.50	0.37	5.2

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	0.46	4202	3792	3997	4474
2	0.43	4927	4934	4931	5907
3	0.40	5585	5437	5511	6029
3	0.37	5391	5441	5416	6492