



**TR3: Technical Report
Concrete Design Mix**
Must be typewritten.

☒ Orient and affix BIS job number label here ☒

The TR3 is required prior to permit

1 Location Information *Required for all applications.*

House No(s) 947 Street Name COLLEGE AVENUE (work only 08-12-2024 onwards)
Borough BRONX Block 2423 Lot 38 BIN 2129145 CB No. 204

2 Applicant Information - Licensed Concrete Testing Lab *Required for all applications.*

Director Last Name LANGER Director First Name GLEN Director Middle Initial J.
Business Name S&S CONCRETE AND SOIL TESTING Business Telephone (718) 961-1000
Business Address 20-39 129th Street Business Fax (718) 961-1002
City College Point State N.Y Zip 11356 Mobile Telephone
E-Mail SSC2039@GMAIL.COM
Director's Lic. Number 070976 ☒ P.E. ☐ R.A. Concrete Testing Lab Lic. Number 000082

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	05-08-23		
Specified Strength (f' c)	6000 PSI		
Required Strength (f' cr)	7300 PSI		
Specified Test Age (Days)	28		

	Material Type	Material Source	ASTM Standard			
Cementitious #1 (lbs)	CEMENT	ESSEX Type I/II	ASTM C-150	660	lbs.	lbs.
Cementitious #2 (lbs)	-	-	-	-	lbs.	lbs.
Cementitious #3 (lbs)	-	-	-	-	lbs.	lbs.
Fine Aggregate (lbs)	SAND	RANCO	ASTM C-33	1321	lbs.	lbs.
Coarse Aggregate #1 (lbs)	STONE	TILCON	ASTM C-33	1700	lbs.	lbs.
Coarse Aggregate #2 (lbs)	-	-	-	-	lbs.	lbs.
Coarse Aggregate #3 (lbs)	-	-	-	-	lbs.	lbs.
Amount of Water (gals)	WATER	NYC POTABLE	ASTM C-94	32.0	gals.	gals.
Admixture #1 (oz)	AIR	SIKA AIR	ASTM C-260	3.1	oz	oz
Admixture #2 (oz)	HRWR	VISCOCRETE 2100	ASTM C-494	41.9	oz	oz
Admixture #3 (oz)	RETARDER	SIKATARD 440	ASTM C-494	18.3	oz	oz
Other	Tags 11116 - 11163					
Water-Cement Ratio				0.40		
Slump/Spread (inches ± tolerance)				8.0 ± 1.0	±	±
Air Content (% ± tolerance)				6.0 % ± 1.5	% ±	% ±
Unit Weight (lbs./ft³)				146.2 lbs./ft³	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.

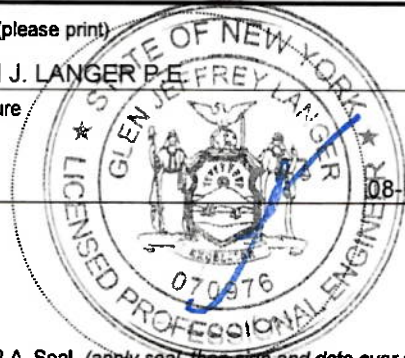
Name (please print)

GLEN J. LANGER P.E.

Signature

Date

08-12-24



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 8/13/24

NRMCA Certification Expiration Date (BC 1095.8.2) 10/14/24

Business Name MELROSE BUILDING MATERIALS

Business Telephone 718-665-9100

Business Address 411 EAST 163RD STREET

Business Fax: (718) 665-7744

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)

SHAHRIAR RAFI

Signature

Date

08/15/2024



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) Gurwinder Singh

Title President

Signature *Gurwinder S.*

Date 8/13/2024

S & S CONCRETE & SOIL TESTING

20-39 129TH ST, COLLEGE POINT, NEW YORK 11356

PH: (718) 961-1000 Email: SSC2039@gmail.com

N.Y.C. D.O.B. License #82

CONCRETE MIX DESIGN REPORT

Client: GURWINDER SINGH	Report Date: 08-12-2024
Project Address: 947 COLLEGE AVENUE , BRONX	Trial Mix Date: 05-08-2023
(work only 08/12/2024 onwards)	Expiration Date: 05-08-2025
Specified Strength f'_c-f'_{cr}: 6,000 + 1300 A.E.	Mix No.: MEL9254
Mix Type: Pump	Tested By: S&S CONCRETE & SOIL TESTING
Concrete Plant Supplier: Melrose Concrete Inc	Delivered By: Melrose Concrete Inc

6,000 psi + 1300 A.E. Concrete Pump @ 28 days

Recommended Mix Design # 5	
Cement (lbs.)	660
Slag (lbs.)	-
Fly Ash (lbs.)	-
Microsilica (lbs.)	-
Fine Aggregate (lbs.)	1321
Coarse Aggregate (lbs.)	1700
Water (gals.)	32.0
Admixture 1 (oz.)	3.1
Admixture 2 (oz.)	41.9
Admixture 3 (oz.)	18.3
Slump (in.)	8.00 ± 1.00
Air Content (%)	6.00 ± 1.50
Unit. Wt. P.C.F.	146.2
W/C Ratio	0.40

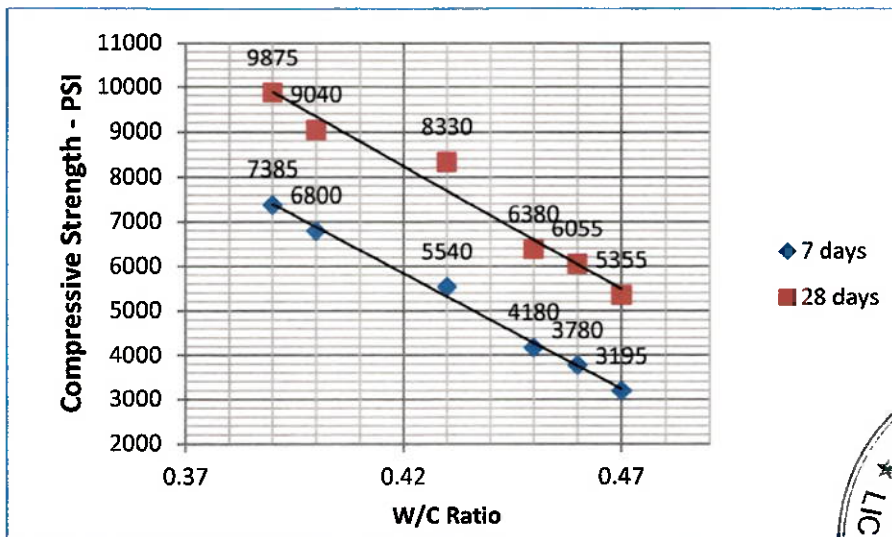
Product	Type & Source	ASTM	S.G.
Cement	ESSEX Type I/II (1L)	ASTM C150	3.05
Slag	-	ASTM C989	-
Fly Ash	-	ASTM C618	-
Silica Fume	-	ASTM C1240	-
Fine Aggregate	Ranco	ASTM C33	2.63
Coarse Aggregate	Tilcon	ASTM C33	2.81
Water	NYC Potable	ASTM C94	1.00
Admixture 1	Sika air	ASTM C260	1.03
Admixture 2	Viscocrete 2100	ASTM C494	1.06
Admixture 3	Sikatard 440	ASTM C494	1.02

Note: Batch tickets must accompany every load of concrete.

Owner must supply test results to Melrose ASAP.

Only supplier can adjust admixture with field test data.

Per NYC DOB bulletin 2010-018 dated 06-18-10.



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CONCRETE MIX DESIGN REPORT

Client: GURWINDER SINGH	Report Date: 08-12-2024	Mix No.: MEL9254
Project Address: 947 COLLEGE AVENUE, BRONX	Trial Mix Date: 05-08-2023	
(work only 08/12/2024 onwards)	Expiration Date: 05-08-2025	
Specified Strength f'_c - f'_{cr} : 6,000 + 1300 A.E. Pump	Tested By: S&S CONCRETE & SOIL TESTING	
Concrete Plant Supplier: Melrose Concrete Inc	Delivered By: Melrose Concrete Inc	

6,000 psi + 1300 A.E. Concrete Pump @ 28 days

Aggregate Gradation Passing Percent Finer

Sieve Size	Fine Aggregates	# 67 Stone
2"		Date added 12-11-2023
1 1/2"		
1"		100
3/4"		95.1
1/2"		51.4
3/8"	100	46.4
#4	99.3	9.0
#8	91.5	1.3
#16	75.0	
#30	44.6	
#50	25.0	
#100	1.6	
FM	2.63	

Unit Weight Dry Rodded

100.1

101.2

Specific Gravity

2.63

2.81

Colometric Test

Plate #1

TRIAL MIXES - BATCH WEIGHTS (lbs. / cubic yards)

Point	Yield	Cement	Slag	Fly Ash	Silica	F.A	C.A *	Water	Adx .1	Adx .2	Adx .3	Unit Wt.	Slump (in)	W/C	Air %
1	27.00	525	-	-	-	1499	1700	29.0	3.3	26.7	-	144.9	8.00	0.46	5.10
2	27.00	550	-	-	-	1467	1700	29.5	2.6	29.0	-	145.6	8.25	0.45	5.30
3	27.00	580	-	-	-	1431	1700	30.0	3.0	31.2	15.2	144.2	8.00	0.43	5.70
4	26.99	620	-	-	-	1376	1700	32.0	3.4	36.5	16.8	145.0	7.75	0.42	5.30
5	27.00	660	-	-	-	1321	1700	32.0	3.1	41.9	18.3	144.3	8.00	0.40	5.10
6	27.00	690	-	-	-	1296	1700	32.0	3.3	47.7	19.8	145.1	8.25	0.39	4.90

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

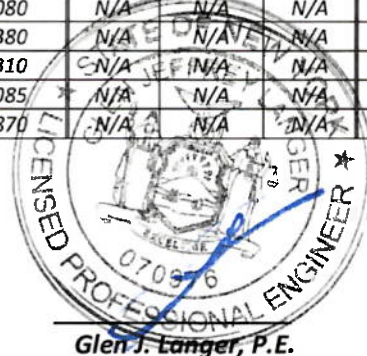
Point	W/C Ratio	7 Days Results		Average	28 Days Results			Average	56 Days Results			Average
1	0.46	3115	3205	3160	5240	5380	5295	5305	N/A	N/A	N/A	N/A
2	0.45	3860	3745	3805	6075	6015	6150	6080	N/A	N/A	N/A	N/A
3	0.43	4205	4170	4190	6340	6315	6485	6380	N/A	N/A	N/A	N/A
4	0.42	5560	5640	5600	8375	8305	8250	8310	N/A	N/A	N/A	N/A
5	0.40	6745	6790	6780	9075	9025	9155	9085	N/A	N/A	N/A	N/A
6	0.39	7380	7365	7375	9940	9860	9805	9870	N/A	N/A	N/A	N/A

Tags Used: S&S 11116-11163

Sample broken by: ACI JORGE LOPEZ/ACI #01208239.

Sika supply all chemical Supply all admixture.

Cement & Aggregate Picked Up From: Melrose Concrete Inc



Glen J. Langer, P.E.

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