



TR3P: Technical Report
Approved Producer
Concrete Design Mix
Must be typewritten

DEPT BLDGS 121184841 Job Number

 ESHS5682175 Scan Code

The TR3P is required prior to permit

1 Location Information *Required for all applications.*

House No(s) 550 Street Name West 34th Street
 Borough Manhattan Block 705 Lot 1 BIN 1089412 CB No. 104

2 Applicant Information - Approved Producer *Required for all applications (QM = Producer Quality Manager).*

QM Last Name Shevchenko QM First Name Gleb QM Middle Initial
 Business Name Aggregate and Concrete Testing, LLC (Subsidiary Ferrara Bros) Business Telephone (347) 532-2992
 Business Address 120-05 31st Avenue Business Fax (718) 539-1998
 City Flushing State NY Zip 11354 Mobile Telephone (914) 484-7330
 E-Mail gshevchenko@actlabny.com
 Approved Producer's Identification Number: 85

3 Strength Requirements and Design *Required for all applications. Attach Trial Mixture Reports and/or Field Experience Results.*

				Mix #1	Mix #2	Mix #3
Method of Determining Proportions (Trial Mixture and/or Field Experience)				<input checked="" type="checkbox"/> Trial Mix <input type="checkbox"/> Field Experience	<input checked="" type="checkbox"/> Trial Mix <input type="checkbox"/> Field Experience	<input checked="" type="checkbox"/> Trial Mix <input type="checkbox"/> Field Experience
Date Trial Mixture Performed				3-15-16		
Specified Strength (f'_c)				12000 PSI	PSI	PSI
Required Strength (f'_{cr})				13900 PSI	PSI	PSI
Specified Test Age (Days)				56		
	Material Type	Material Source	ASTM Standard			
Cementitious #1 (lbs)	Type I/II	Lafarge	ASTM C-150	445 lbs.	lbs.	lbs.
Cementitious #2 (lbs)	Slag	Essroc Grade 100	ASTM C-989	440 lbs.	lbs.	lbs.
Cementitious #3 (lbs)	Micro Silica	Norcem	ASTM 1240	15 lbs.	lbs.	lbs.
Fine Aggregate (lbs)	Long Island Natural	Roanoke S&G	ASTM C-33	1345 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	#8 Stone	Tilcon (Clinton Point)	ASTM C-33	1575 lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)				lbs.	lbs.	lbs.
Coarse Aggregate #3 (lbs)				lbs.	lbs.	lbs.
Amount of Water (gals)	Water	NYC DEP	Potable	28.6 gals.	gals.	gals.
Admixture #1 (oz)	Master Glenium 7620	BASF	ASTM C-494	89 oz	oz	oz
Admixture #2 (oz)	Master Set Delvo	BASF	ASTM C-494	27 oz	oz	oz
Admixture #3 (oz)	Master Sure Z60	BASF	ASTM C-494	33 oz	oz	oz
Other	Master Sure 1390	BASF	ASTM C-260	10		
Water-Cement Ratio				.27		
Slump/Spread (inches \pm tolerance)				25 \pm 3	\pm 1	\pm
Air Content (% \pm tolerance)	Entrapped Only			% \pm	% \pm Max	% \pm Max
Unit Weight (lbs./ft ³)				151 lbs./ft ³	lbs./ft ³	lbs./ft ³

4 Quality Manager's Statement and Signature *Required for all applications.*

I hereby state that the information reported in section 3 above is correct and complete and that the tests reported in section 3 above were performed under my supervision in accordance with all applicable New York City Construction Code provisions, and Departmental rules.

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 (print) Gleb ShevchenkoTitle Quality Control ManagerSignature *Gleb Shevchenko*

Date

05-20-16**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 specified 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) Alex FerraraTitle QC/QASignature *Alex Ferrara*Date 05-20-16CIB Certification Expiration Date (BC 1905.8.2) 06-02-16Business Name Ferrara Bros.Business Telephone 718-939-3030Business Address 120-05 31st AvenueBusiness Fax: 718-539-1998City FlushingState NYZip 11354**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 Approved Concrete Producer and found them to be in compliance with the approved construction documents (BC 1905.8.2).

Name (please print) JEFFREY H. SMILOWSignature *Jeffrey H. Smilow*

Date

5/26/2016

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 made a false statement or to have knowingly or negligently falsified or allowed to be falsified any certificate, form, signed statement, application, report or certification of the correction of a 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) HAGEN SCUIT

Title

AGENT FOR OWNERSignature *Hagen Scuit*

Date

5/26/16**INTERNAL USE ONLY.**

Examiner Name (print)

Title

Signature

Date



AGGREGATE & CONCRETE TESTING, LLC

120-05 31st Avenue
Flushing, NY 11354
Tel: (347)-532-2992
INFO@ACTLABNY.COM

CLIENT: Cross Country Construction LLC
PROJECT: 55 Hudson
Manhattan, NY

DATE ISSUED: 3/15/16
TYPE: 12000 PSI Spread
MIX #: CCC-55Hudson-31516-12k
PRODUCER: FERRARA BROS.

STRENGTH AT 56 DAYS	SPREAD (IN)	AIR CONTENT(%)	W/C RATIO	UNIT WEIGHT(PCF)
12000+1900	25+/- 3	Entrapped Only	0.27	150.6

RECOMMENDED POINT # 1

MATERIAL	BRAND	STANDARD	SPECIFIC GRAVITY	RECOMMENDED PROPORTIONS PER CUBIC YARD
CEMENT (LBS)	La Farge Type I/II	ASTM C150	3.15	445
SLAG (LBS)	Essroc Grade 100	ASTM C989	2.88	440
MICRO SILICA (LBS)	BASF (Norcem)	ASTM 1240	2.23	15
SAND (LBS)	L.I.Natural (Roanoke)	ASTM C33	2.64	1345
STONE 2 (LBS)	# 8 Tilcon (Clinton Point)	ASTM C33	2.65	1575
WATER (LBS)	NYC POTABLE	ASTM C1602	1.00	238.0
WATER (GAL)	NYC POTABLE	ASTM C1602	1.00	28.6
ADMIX 1 (OZ)	Master Glenium 7620	ASTM C494	1.05	89.0
ADMIX 2 (OZ)	Master Set Delvo	ASTM C494	1.07	27.0
ADMIX 3 (OZ)	Master Sure Z60	ASTM C494	1.04	33.0
ADMIX 4 (OZ)	Master Sure 1390	ASTM C260	1.01	10.0

SAND GRADATION									
SAND	SIEVE SIZE	3/8"	#4	#8	#16	#30	#50	#100	F.M
	% PASS	100.0	95.3	88.9	79.1	57.7	19.8	2.1	2.57

STONE GRADATIONS									
SIEVE SIZE	2"	1-1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#16
STONE #8					100.0	93.8	23.7	2.8	0.7

NOTES:

1. Adjust air-entraining admixtures and water reducing admixtures to meet specification requirements as per manufacturers recommendations and according to NYCDOB bulletin 2010-018
2. Structural Engineer of Record must approve this design mix before use on the project stated above.
3. This mix is explicitly issued to the client stated above for the project noted. Any reproduction, alteration or use by anyone other than the client is a criminal offense unless written authorization is provided by ACT, LLC.

*This mix has been reviewed by Gleb Shevchenko of ACT, LLC.

Gleb Shevchenko

Date: 5/20/2016



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TRIAL MIXES

POINT #	1	2	3
DATE OF TRIAL	3/15/2016	3/15/2016	3/15/2016
CEMENT (LBS)	445	485	505
SLAG (LBS)	440	485	505
MICRO SILICA (LBS)	15	30	40
SAND (LBS)	1345	1290	1265
STONE 2 (LBS)	1575	1500	1475
WATER(LBS)	238.0	250.0	250.0
WATER(GAL.)	28.6	30.0	30.0
ADMIX 1(OZ)	89.0	95.0	102.0
ADMIX 2(OZ)	27.0	28.0	45.0
ADMIX 3(OZ)	33.0	35.0	45.0
ADMIX 4(OZ)	10.0	10.0	10.0
SLUMP (IN)	23.00	24.50	25.50
AIR (%)	1.40	1.30	1.50
TEMP (F)	61	61	61
UNIT WEIGHT(PCF)	152.4	152.8	152.6
THEOR. UNIT WEIGHT	150.6	150.1	150.1
W/C RATIO	0.27	0.26	0.25
7 DAY RESULTS(PSI)	11630	12080	12440
	11770	12160	12720
	11700	12280	12370
7 DAY AVERAGE(PSI)	11700	12173	12510
28 DAY RESULTS(PSI)	14450	15190	16260
	14250	15100	16090
	14480	14960	16360
28 DAY AVERAGE(PSI)	14393	15083	16237
56 DAY RESULTS(PSI)	15310	16800	17510
	15070	16940	17250
	15380	17100	17460
56 DAY AVERAGE(PSI)	15247	16947	17407

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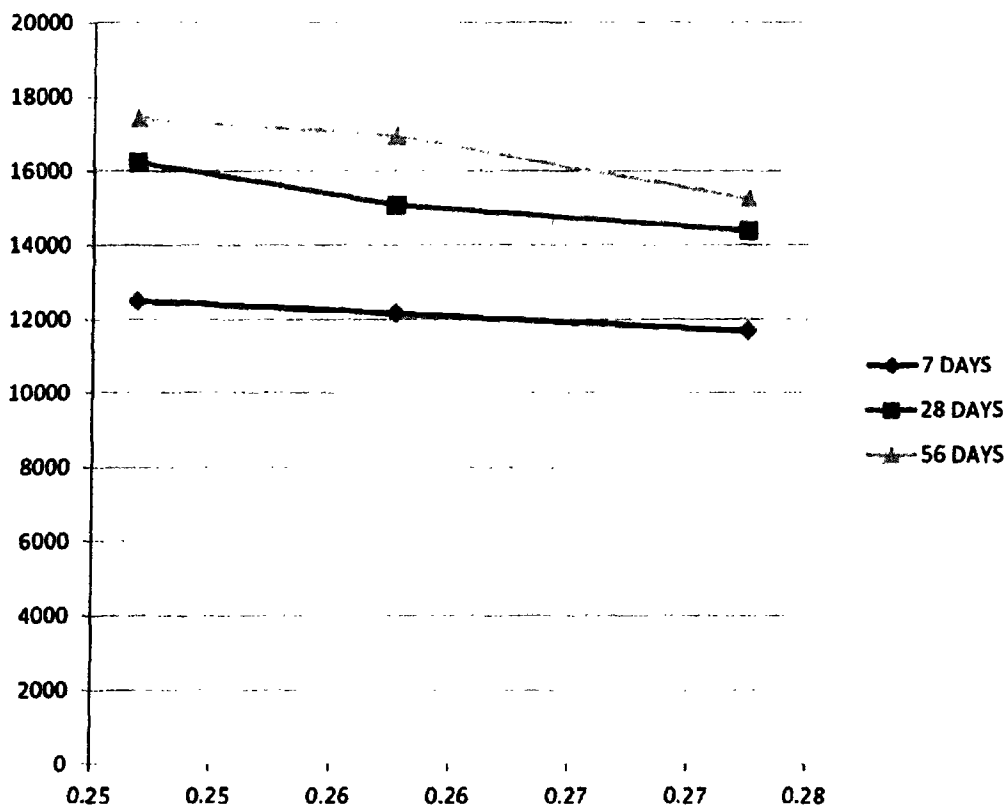
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COMPRESSIVE STRENGTH VS W/C RATIOS



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MODULUS OF ELASTICITY

ASTM C469

DATE CAST	SPECIMEN SIZE	TEST AGE	MODULUS OF ELASTICITY
3/15/2016	4" Diameter	28 Day	7,800,000
3/15/2016	4" Diameter	56 Day	8,000,000