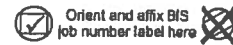




TR3P: Technical Report
Approved Producer
Concrete Design Mix

Must be typewritten.



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"/> Trial Mix	<input type="checkbox"/> Trial Mix
				<input type="checkbox"/> Field Experience	<input type="checkbox"/> Field Experience	<input type="checkbox"/> Field Experience
Date Trial Mixture Performed				09-25-13		
Specified Strength (f' _c)				9000 PSI	PSI	PSI
Required Strength (f' _{cr})				10600 PSI	PSI	PSI
Specified Test Age (Days)				56		
	Material Type	Material Source	ASTM Standard			
Cementitious #1 (lbs)	Type I/II	Lafarge	ASTM C-150	255 lbs.	255 lbs.	lbs.
Cementitious #2 (lbs)				lbs.	lbs.	lbs.
Cementitious #3 (lbs)	Slag	Holcim	ASTM C-989	595 lbs.	595 lbs.	lbs.
Fine Aggregate (lbs)	Long Island Natural	Roanoke S&G	ASTM C-33	1190 lbs.	1190 lbs.	lbs.
Coarse Aggregate #1 (lbs)	#67 Stone	Tilcon	ASTM C-33	1800 lbs.	1800 lbs.	lbs.
Coarse Aggregate #2 (lbs)				lbs.	lbs.	lbs.
Coarse Aggregate #3 (lbs)				lbs.	lbs.	lbs.
Amount of Water (gals)	Water	NYC DEP	Potable	30.0 gals.	30.0 gals.	gals.
Admixture #1 (oz)	Master Sure 1390	BASF	ASTM C-260	3 oz	3 oz	oz
Admixture #2 (oz)	Master Glenium	BASF	ASTM C-494	85 oz	85 oz	oz
Admixture #3 (oz)	Master Set Delvo	BASF	ASTM C-494	17 oz	17 oz	oz
Other						
Water-Cement Ratio				151.6	151.6	
Slump/Spread (Inches ± tolerance)				21 ± 3	9 ± 1	±
Air Content (% ± tolerance)				3.5 %± MAX	3.5 %± Max	%±
Unit Weight (lbs./ft ³)				152 lbs./ft ³	152 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 07-13-15**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 07-13-15CIB 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 1905.6).

Name (please print) JEFFREY H. SMILLOWSignature *Jeffrey H. Smilow*Date 7-14-15

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) HAYEN SCOTTTitle AGENT FOR OWNERSignature *Hayen Scott*Date 7/14/15**INTERNAL USE ONLY.**

Examiner Name (print)

Title

Signature

Date

12/14



AGGREGATE & CONCRETE TESTING, LLC

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

CLIENT: New York Concrete Corp.
PROJECT: 55 Hudson
New York, NY

DATE ISSUED: 9/25/2014
TYPE: 9000 Spread
MIX #: NYCC55Hudson92514-90kNA
PRODUCER: FERRARA BROS.

STRENGTH AT 56 DAYS	SPREAD (IN)	AIR CONTENT(%)	W/C RATIO	UNIT WEIGHT(PCF)
9000+1600	21+/- 3	3.5 % Max	0.30	151.6

RECOMMENDED POINT #3

MATERIAL	BRAND	STANDARD	SPECIFIC GRAVITY	RECOMMENDED PROPORTIONS PER CUBIC YARD
CEMENT (LBS)	La Farge Type I/II	ASTM C150	3.15	255
SLAG (LBS)	Holcim Grade 100	ASTM C989	2.88	595
SAND (LBS)	L.I. Natural (Roanoke)	ASTM C33	2.64	1190
STONE 1 (LBS)	# 67 Tilcon (Clinton Point)	ASTM C33	2.81	1800
WATER (LBS)	NYC POTABLE	ASTM C1602	1.00	250.0
WATER (GAL)	NYC POTABLE	ASTM C1602	1.00	30.0
ADMIX 1 (OZ)	Master Sure 1390	ASTM C260	1.01	3.0
ADMIX 2 (OZ)	Master Glenium 7500	ASTM C494	1.05	85.0
ADMIX 3 (OZ)	Master Set Delvo	ASTM C494	1.07	17.0

SAND GRADATION									
SAND	SIEVE SIZE	3/8"	#4	#8	#16	#30	#50	#100	F.M
	% PASS	100.0	95.3	90.2	81.9	57.9	18.2	4.2	2.52

STONE GRADATIONS									
SIEVE SIZE	2"	1-1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#16
STONE #67			100.0	94.9		44.2	3.8	1.8	

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.

Date: 7/13/15



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DATE ISSUED: 9/25/2014
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MIX #: NYCC55Hudson92514-90kNA
PRODUCER: FERRARA BROS.

PSI: 9000+1600 56 DAYS

TRIAL MIXES

POINT #	1	2	3
DATE OF TRIAL	9/25/2014	9/25/2014	9/25/2014
CEMENT (LBS)	225	240	255
SLAG (LBS)	525	560	595
SAND (LBS)	1235	1200	1190
STONE 1 (LBS)	1850	1840	1800
WATER (LBS)	250.0	250.0	250.0
WATER (GAL.)	30.0	30.0	30.0
ADMIX 1 (OZ)	5.0	4.0	3.0
ADMIX 2 (OZ)	71.0	77.0	85.0
ADMIX 3 (OZ)	15.0	16.0	17.0
SLUMP (IN)	9.50	9.50	9.75
SPREAD (IN)	20.00	21.00	23.50
AIR (%)	2.00	1.70	2.70
TEMP (F)	61	60	60
UNIT WEIGHT (PCF)	153.6	154.0	152.4
THEOR. UNIT WEIGHT	151.4	151.6	151.6
W/C RATIO	0.34	0.32	0.30
7 DAY RESULTS (PSI)	8400	9410	9850
	8400	9480	9820
	8630	9640	10020
7 DAY AVERAGE (PSI)	8477	9510	9897
28 DAY RESULTS (PSI)	11300	12390	12350
	11350	12240	12430
	11460	12180	12420
28 DAY AVERAGE (PSI)	11370	12270	12400
56 DAY RESULTS (PSI)	11980	12760	13290
	11870	12710	13270
	11780	12490	13320
56 DAY AVERAGE (PSI)	11877	12653	13293

NOTES:

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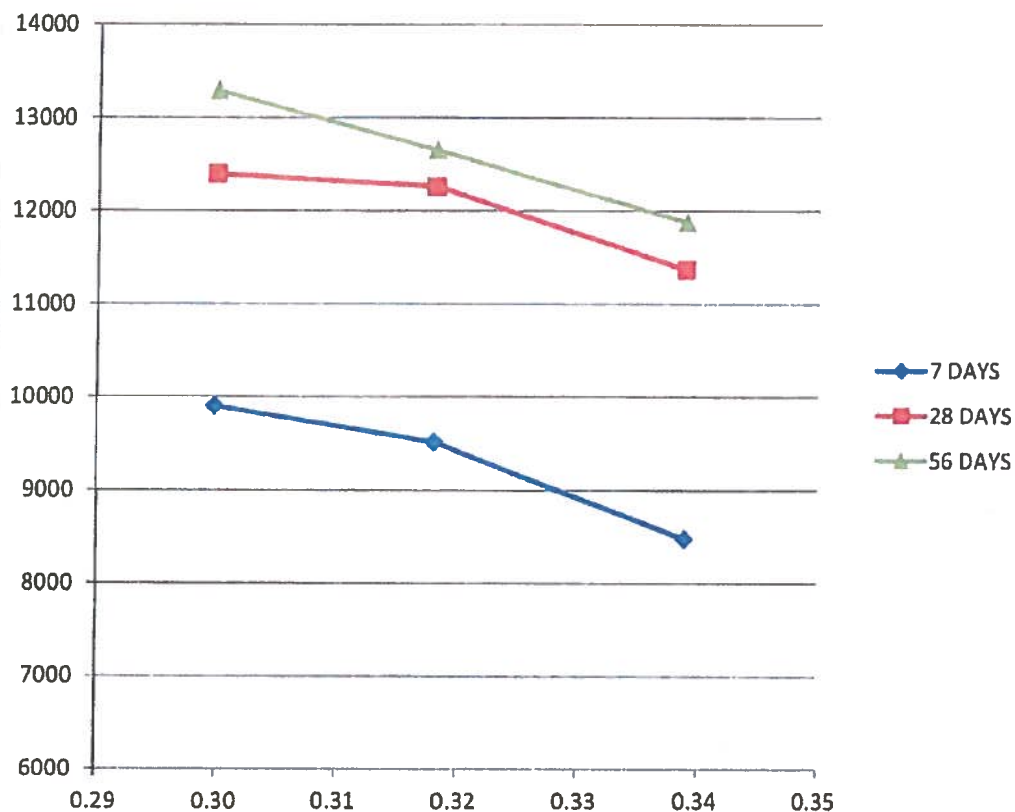
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PSI: 9000+1600 56 DAYS

COMPRESSIVE STRENGTH VS W/C RATIOS



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PROJECT: 55 Hudson
New York, NY

DATE ISSUED: 9/25/2014
TYPE: 9000 Pump
MIX #: NYCC55Hudson92514-90kNA
PRODUCER: FERRARA BROS.

STRENGTH AT 56 DAYS	SLUMP (IN)	AIR CONTENT(%)	W/C RATIO	UNIT WEIGHT(PCF)
9000+1600	9 +/- 1	3.5 % Max	0.30	151.6

RECOMMENDED POINT #3

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WATER (LBS)	NYC POTABLE	ASTM C1602	1.00	250.0
WATER (GAL)	NYC POTABLE	ASTM C1602	1.00	30.0
ADMIX 1 (OZ)	Master Sure 1390	ASTM C260	1.01	3.0
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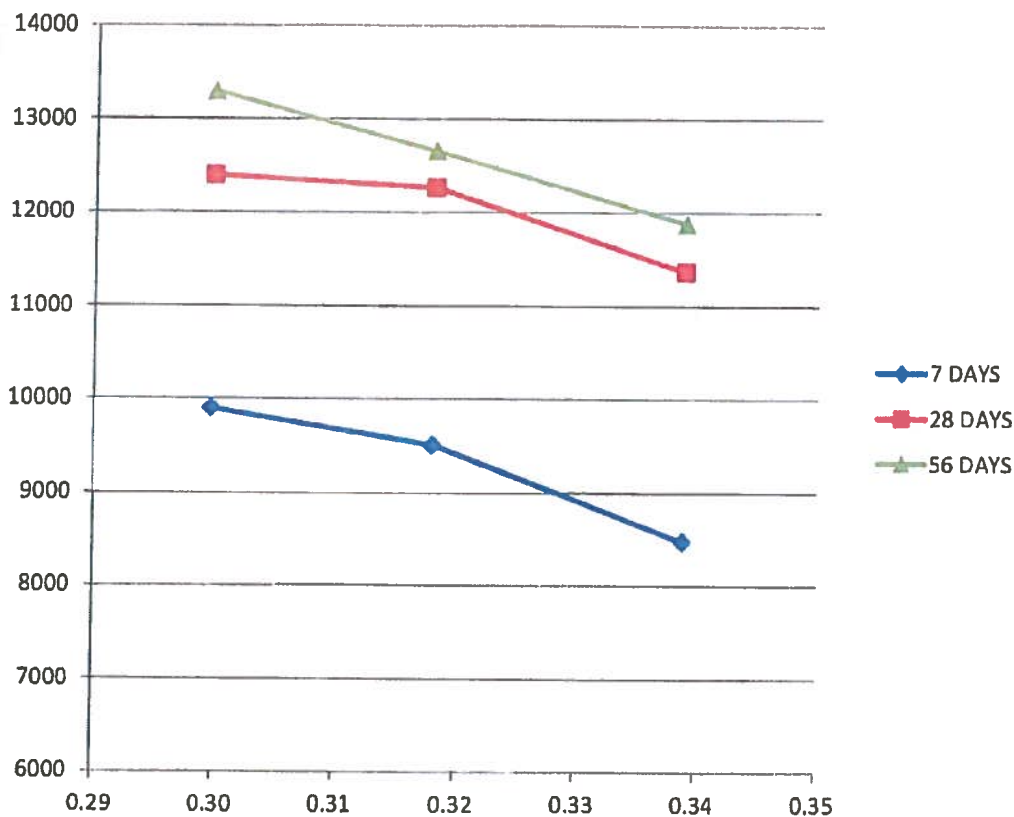
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