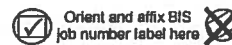




TR3P: Technical Report
Approved Producer
Concrete Design Mix



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"/> Field Experience	<input type="checkbox"/> Trial Mix <input type="checkbox"/> Field Experience	<input type="checkbox"/> Trial Mix <input type="checkbox"/> Field Experience
Date Trial Mixture Performed				06-05-13		
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	335 lbs.	lbs.	lbs.
Cementitious #2 (lbs)	Fly Ash	STI Pro Ash	ASTM C-618	145 lbs.	lbs.	lbs.
Cementitious #3 (lbs)	Slag	Holcim	ASTM C-989	445 lbs.	lbs.	lbs.
Fine Aggregate (lbs)	Long Island Natural	Roanoke S&G	ASTM C-33	1225 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	#67 Stone	Tilcon	ASTM C-33	900 lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)	#8 Stone	Tilcon	ASTM C-33	750 lbs.	lbs.	lbs.
Coarse Aggregate #3 (lbs)				lbs.	lbs.	lbs.
Amount of Water (gals)	Water	NYC DEP	Potable	29.4 gals.	gals.	gals.
Admixture #1 (oz)	Sikament 686	SIKA	ASTM C-494	25 oz	oz	oz
Admixture #2 (oz)	Visco Crete 2100	SIKA	ASTM C-494	74 oz	oz	oz
Admixture #3 (oz)	Delvo	BASF	ASTM C-494	29 oz	oz	oz
Other	Micro Silica	SIKA	ASTM 1240	25		
Water-Cement Ratio				.26		
Slump/Spread (inches \pm tolerance)				23 \pm 3	\pm	\pm
Air Content (% \pm tolerance)				3.5 % \pm MAX	% \pm	% \pm
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

06-02-15**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 06-02-15CIB Certification Expiration Date (BC 1905.8.2) 06-02-16Business Name Ferrara Bros. Building Materials Corp.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

2015-07-28

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 SWITTTitle AGENT FOR OWNERSignature *Hagen Switt*

Date

7/28/15**INTERNAL USE ONLY.**

Examiner Name (print)

Title

Signature

Date



AGGREGATE & CONCRETE TESTING, LLC

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

CLIENT: New York Concrete Corp.
PROJECT: 55 Husdon
Manhattan, NY

DATE ISSUED: 6-05-2013
TYPE: 12000 Psi Spread
MIX #: NYCC 55 Hudson-6513-12k
PRODUCER: FERRARA BROS.

23+-2

STRENGTH AT 56 DAYS (PSI)	SPREAD (IN)	AIR CONTENT (%)	W/C RATIO	UNIT WEIGHT (PCF)
12000+1900	23+-3	3.5% Max	0.26	151.0

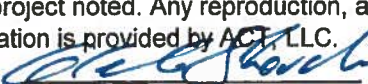
RECOMMENDED POINT # 3

MATERIAL	BRAND	STANDARD	SPECIFIC GRAVITY	RECOMMENDED PROPORTIONS PER CUBIC YARD
CEMENT (LBS)	La Farge Type I/II	ASTM C150	3.15	335
FLY ASH (LBS)	STI Pro Ash	ASTM C618	2.13	145
SLAG (LBS)	Holcim Grade 100	ASTM C989	2.88	445
MICRO SILICA (LBS)	Sikacrete 950DP (Norcem)	ASTM 1240	2.23	25
SAND (LBS)	L.I. Natural (Roanoke)	ASTM C33	2.64	1225
STONE 1 (LBS)	# 67 Tilcon (Clinton Point)	ASTM C33	2.81	900
STONE 2 (LBS)	# 8 Tilcon (Clinton Point)	ASTM C33	2.81	750
WATER (LBS)	NYC Potable	ASTM C1602	1.00	245.0
WATER (GAL)	NYC Potable	ASTM C1602	1.00	29.4
ADMIX 1 (OZ)	Sikament 686 (Sika)	ASTM C494	1.10	25.0
ADMIX 2 (OZ)	Visco Crete 2100 (Sika)	ASTM C494	1.10	74.0
ADMIX 3 (OZ)	Delvo Stabilizer (BASF)	ASTM C494	1.07	29.0

SAND GRADATION									
SAND	SIEVE SIZE	3/8"	#4	#8	#16	#30	#50	#100	F.M
	% PASS	100.0	95.2	89.5	81.4	58.6	20.4	4.1	2.51

STONE GRADATIONS									
SIEVE SIZE	2"	1-1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#16
STONE #8					100.0	95.9	20.1	2.2	0.2
STONE #67			100.0	95.4		34.4	4.8	0.6	

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: 6/2/15

CLIENT: New York Concrete Corp.
PROJECT: 55 Husdon
Manhattan, NY

DATE ISSUED: 6-05-2013
TYPE: 12000 Psi Spread
MIX #: NYCC 55 Hudson-6513-12k
PRODUCER: FERRARA BROS.

PSI: 12000+1900 AT 56 DAYS

TRIAL MIXES

POINT #	1	2	3
DATE OF TRIAL	6/5/2013	6/5/2013	6/5/2013
CEMENT (LBS)	315	325	335
FLY ASH (LBS)	135	140	145
SLAG (LBS)	432	440	445
MICRO SILICA (LBS)	18	20	25
SAND (LBS)	1260	1240	1225
STONE 1 (LBS)	900	900	900
STONE 2 (LBS)	750	750	750
WATER(LBS)	251.0	248.0	245.0
WATER(GAL.)	30.1	29.8	29.4
ADMIX 1(OZ)	25.0	25.0	25.0
ADMIX 2(OZ)	62.0	69.0	74.0
ADMIX 3(OZ)	27.0	28.0	29.0
SLUMP/SPREAD (IN)	23.00	27.50	25.50
J-RING	21.00	25.50	24.50
AIR (%)	2.00	1.30	1.30
TEMP (F)	72	71	69
UNIT WEIGHT(PCF)	152.4	153.2	153.6
THEOR. UNIT WEIGHT	150.6	150.8	151.0
W/C RATIO	0.28	0.27	0.26
7 DAY RESULTS(Psi)	10280	11720	12270
	10680	11930	12250
	10670	12180	12170
7 DAY AVERAGE(Psi)	10543	11943	12230
28 DAY RESULTS(Psi)	13910	14930	15920
	13790	14580	15630
	14040	14360	15780
28 DAY AVERAGE(Psi)	13913	14623	15777
56 DAY RESULTS(Psi)	14730	16430	16550
	15140	16500	16880
	15090	16410	16900
56 DAY AVERAGE(Psi)	14987	16447	16777

NOTES:

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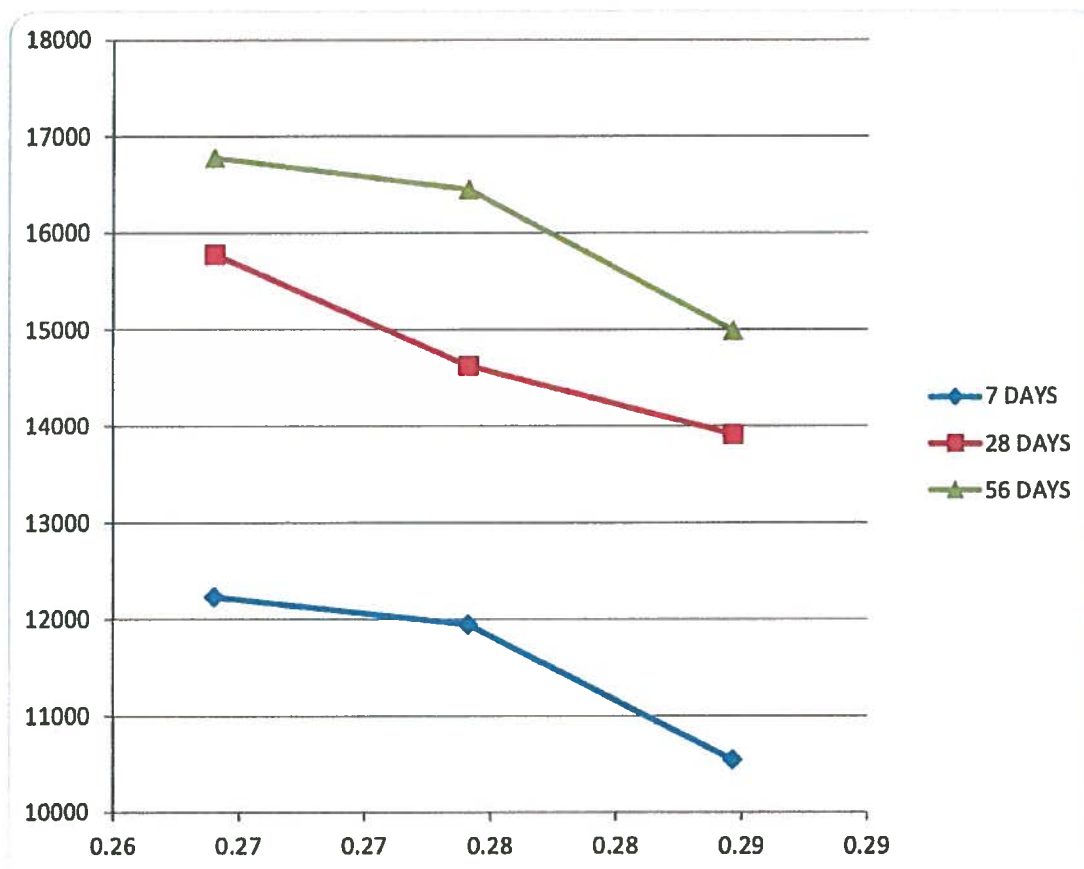


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COMPRESSIVE STRENGTH VS W/C RATIOS



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