



TR3P: Technical Report
Approved Producer
Concrete Design Mix

Must be typewritten.

DEPT BLDGS Job No. 121184841
Scan Code ESHS9001788

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 checked="" type="checkbox"/> Trial Mix	<input checked="" type="checkbox"/> Trial Mix
				<input type="checkbox"/> Field Experience	<input type="checkbox"/> Field Experience	<input type="checkbox"/> Field Experience
Date Trial Mixture Performed				8/18/14	6/10/14	
Specified Strength (f'_c)				5000 PSI	12000 PSI	PSI
Required Strength (f'_{cr})				6200 PSI	13900 PSI	PSI
Specified Test Age (Days)				28	56	
	Material Type	Material Source	ASTM Standard			
Cementitious #1 (lbs)	Type I/II	Lafarge	ASTM C-150	470 lbs.	290 lbs.	lbs.
Cementitious #2 (lbs)	Fly Ash	STI Pro Ash	ASTM C-618	155 lbs.	105 lbs.	lbs.
Cementitious #3 (lbs)	Slag	Holcim	ASTM C-989	NA lbs.	490 lbs.	lbs.
Fine Aggregate (lbs)	Long Island Natural	Roanoke S&G	ASTM C-33	1340 lbs.	1300 lbs.	lbs.
Coarse Aggregate #1 (lbs)				lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)	#67 Stone	Tilcon	ASTM C-33	1850 lbs.	NA lbs.	lbs.
Coarse Aggregate #3 (lbs)	#8 Stone	Tilcon	ASTM C-33	NA lbs.	1675 lbs.	lbs.
Amount of Water (gals)	Water	NYC DEP	Potable	29.8 gals.	28.5 gals.	gals.
Admixture #1 (oz)	Master Sure 1390	BASF	ASTM C-260	2.5 oz	20 oz	oz
Admixture #2 (oz)	Master Glenium 7500	BASF	ASTM C-494	59 oz	102 oz	oz
Admixture #3 (oz)	Master Delvo	BASF	ASTM C-494	NA oz	27 oz	oz
Other	Master Sure Z60	BASF	ASTM C-494	NA	33 oz	
Water-Cement Ratio				.40	.27	
Slump/Spread (inches \pm tolerance)				9 \pm 1	24 \pm 3	\pm
Air Content (% \pm tolerance)				3 % \pm Mx	3 % \pm Mx	% \pm
Unit Weight (lbs./ft ³)				151 lbs./ft ³	153 lbs./ft ³	lbs./ft ³

Micro Silica Euclid (Norcem) ASTM 1240 NA 15lbs

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 Shevchenko**Title **Quality Control Manager**Signature Date **12-12-14****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 Ferrara**Title **QC/QA**Signature Date **12-12-14**NRMCA Certification Expiration Date (BC 1905.8.2) **06-02-16**Business Name **Ferrara Bros. Building Materials Corp.**Business Telephone **718-939-3030**Business Address **120-05 31st Avenue**Business Fax: **718-539-1998**City **Flushing**State **NY**Zip **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 1905.6.3.3).

Name (please print) **Jeffrey Samson**Signature 

Date

12-16-14

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 SCUTT**Title **AGENT FOR owner**Signature Date **12/16/14****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: New York Concrete Corp.
PROJECT: 55 Hudson
New York, NY

DATE ISSUED: 6/19/2014
TYPE: 5000 Spread
MIX #: NYCC55Hudson61914-50kNA
PRODUCER: FERRARA BROS.

STRENGTH AT 28 DAYS	SPREAD (IN)	AIR CONTENT(%)	W/C RATIO	UNIT WEIGHT(PCF)
5000+1200	19" +/- 3"	3% Max	0.39	149.1

RECOMMENDED POINT # 1

MATERIAL	BRAND	STANDARD	SPECIFIC GRAVITY	RECOMMENDED PROPORTIONS PER CUBIC YARD
CEMENT (LBS)	La Farge Type I/II	ASTM C150	3.15	525
FLY ASH (LBS)	STI Pro Ash	ASTM C618	2.3	175
SAND (LBS)	L.I.Natural (Roanoke)	ASTM C33	2.64	1375
STONE 1 (LBS)	# 67 Tilcon (Clinton Point)	ASTM C33	2.81	1050
STONE 2 (LBS)	# 8 Tilcon (Clinton Point)	ASTM C33	2.81	625
WATER (LBS)	NYC POTABLE	ASTM C1602	1.00	271.0
WATER (GAL)	NYC POTABLE	ASTM C1602	1.00	32.5
ADMIX 1 (OZ)	Master Glenium 7500	ASTM C494	1.05	64.0

SAND GRADATION									
SAND	SIEVE SIZE	3/8"	#4	#8	#16	#30	#50	#100	F.M
	% PASS	100	96	89	78.8	53.2	15.1	1.4	2.66

STONE GRADATIONS									
SIEVE SIZE	2"	1-1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#16
STONE #67			100	94.5		26.2	5.5	2.5	
STONE #8					100	97.1	18.1	2.4	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: 12/12/14



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: 6/19/2014
TYPE: 5000 Spread
MIX #: NYCC55Hudson61914-50kNA
PRODUCER: FERRARA BROS.

PSI: 5000+1200 28 DAYS

TRIAL MIXES

POINT #	1	2	3
DATE OF TRIAL	6/19/2014	6/19/2014	6/19/2014
CEMENT (LBS)	525	545	560
FLY ASH (LBS)	175	180	190
SAND (LBS)	1375	1365	1365
STONE 1 (LBS)	1050	1025	1000
STONE 2 (LBS)	625	625	625
WATER(LBS)	271.0	275.0	275.0
WATER(GAL.)	32.5	33.0	33.0
ADMIX 1(OZ)	64.0	66.0	68.0
SPREAD (IN)	20.50	22.00	21.50
V.S.I	0.50	0.50	0.50
AIR (%)	2.50	1.50	2.50
TEMP (F)	74	75	75
UNIT WEIGHT(PCF)	151.2	150.8	151.2
THEOR. UNIT WEIGHT	149.1	148.8	148.8
W/C RATIO	0.39	0.38	0.37
7 DAY RESULTS(Psi)	5670	5860	5850
	5600	5930	6210
	5560	5660	6250
7 DAY AVERAGE(Psi)	5610	5817	6103
28 DAY RESULTS(Psi)	8120	8400	8820
	8200	8390	8960
	8040	8290	9110
28 DAY AVERAGE(Psi)	8120	8360	8963
56 DAY RESULTS(Psi)	9170	9610	10350
	9150	9570	10330
	9170	9600	10400
56 DAY AVERAGE(Psi)	9163	9593	10360

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: 12/12/14

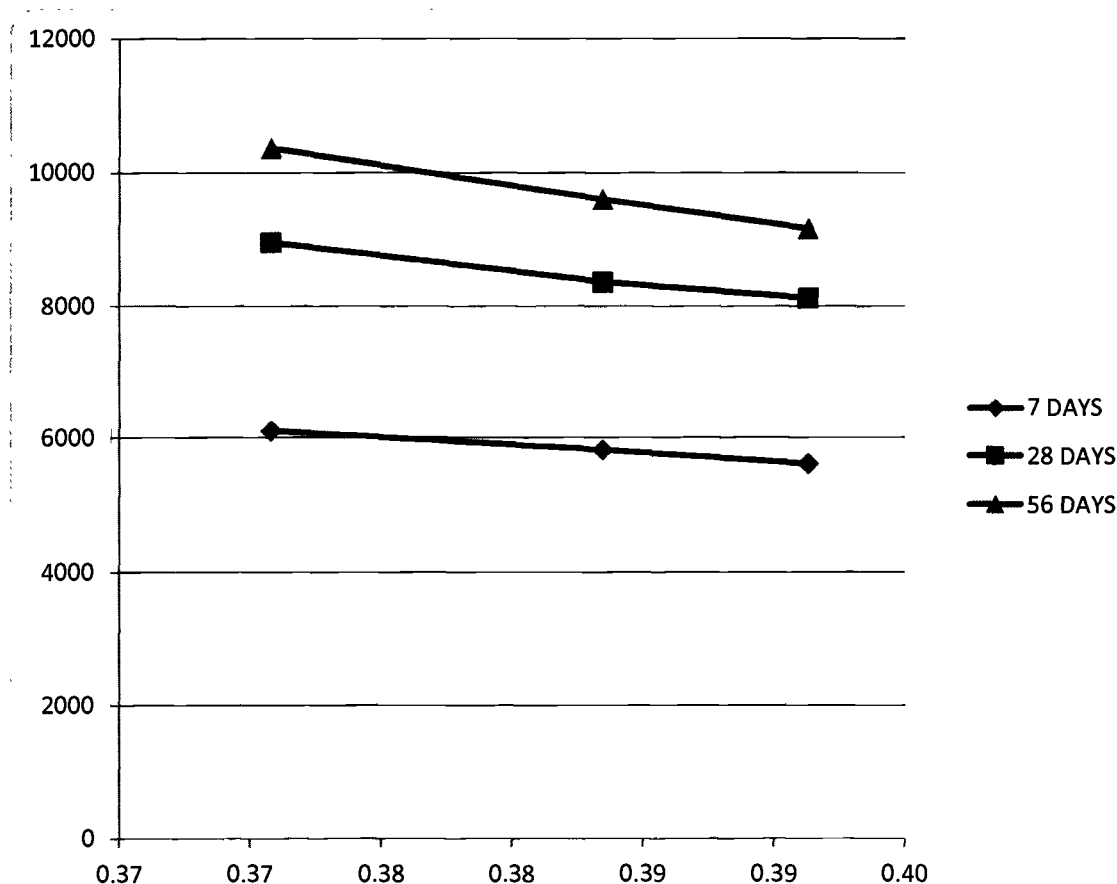


CLIENT: New York Concrete Corp.
PROJECT: 55 Hudson
New York, NY

DATE ISSUED: 6/19/2014
TYPE: 5000 Spread
MIX #: NYCC55Hudson61914-50kNA
PRODUCER: FERRARA BROS.

PSI: 5000+1200 28 DAYS

COMPRESSIVE STRENGTH VS W/C RATIOS



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: 12/12/14



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

DATE ISSUED: 6/10/2014
TYPE: 12,000 Spread
MIX #: NYCC55H 061014-120kS
PRODUCER: FERRARA BROS.

STRENGTH AT 56 DAYS	SPREAD (IN)	AIR CONTENT(%)	W/C RATIO	UNIT WEIGHT(PCF)
12000 + 1900	24 +/- 3	3% Max	0.27	152.7

RECOMMENDED POINT # 1

MATERIAL	BRAND	STANDARD	SPECIFIC GRAVITY	RECOMMENDED PROPORTIONS PER CUBIC YARD
CEMENT (LBS)	La Farge Type I/II	ASTM C150	3.15	290
FLY ASH (LBS)	STI Pro Ash	ASTM C618	2.3	105
SLAG (LBS)	Holcim Grade 100	ASTM C989	2.88	490
MICRO SILICA (LBS)	Euclid (Norcem)	ASTM 1240	2.24	15
SAND (LBS)	L.I.Natural (Roanoke)	ASTM C33	2.64	1300
STONE 2 (LBS)	# 8 Tilcon (Clinton Point)	ASTM C33	2.81	1675
WATER (LBS)	NYC POTABLE	ASTM C1602	1.00	237.0
WATER (GAL)	NYC POTABLE	ASTM C1602	1.00	28.5
ADMIX 1 (OZ)	Master Glenium 7500	ASTM C494	1.05	102.0
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	20.0

SAND GRADATION									
SAND	SIEVE SIZE	3/8"	#4	#8	#16	#30	#50	#100	F.M
	% PASS	100.0	96.3	91.6	81.9	53.5	9.3	0.5	2.67

STONE GRADATIONS									
SIEVE SIZE	2"	1-1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#16
STONE #8					100.0	97.9	22.9	2.9	0.3

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: 12/12/2014



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

DATE ISSUED: 6/10/2014
TYPE: 12,000 Spread
MIX #: NYCC55H 061014-120KS
PRODUCER: FERRARA BROS.

PSI: 12000 + 1900 56 DAYS

TRIAL MIXES

POINT #	1	2	3
DATE OF TRIAL	6/10/2014	6/10/2014	6/10/2014
CEMENT (LBS)	290	310	335
FLY ASH (LBS)	105	135	150
SLAG (LBS)	490	515	525
MICRO SILICA (LBS)	15	40	40
SAND (LBS)	1300	1235	1225
STONE 2 (LBS)	1675	1600	1535
WATER(LBS)	237.0	247.0	254.0
WATER(GAL.)	28.5	29.7	30.5
ADMIX 1(OZ)	102.0	128.0	130.0
ADMIX 2(OZ)	27.0	33.0	45.0
ADMIX 3(OZ)	33.0	45.0	45.0
ADMIX 4(OZ)	20.0	15.0	15.0
SPREAD (IN)	23.50	26.00	26.00
V.S.I	0.00	0.50	0.50
AIR (%)	1.30	1.40	1.10
TEMP (F)	77	78	78
UNIT WEIGHT(PCF)	153.6	153.6	153.6
THEOR. UNIT WEIGHT	152.7	151.7	151.2
W/C RATIO	0.27	0.26	0.25
7 DAY RESULTS(Psi)	10490	11860	11900
	10240	11940	11920
	10550	11700	11840
7 DAY AVERAGE(Psi)	10427	11833	11887
28 DAY RESULTS(Psi)	14780	16220	16180
	14430	15930	16300
	14800	16320	16500
28 DAY AVERAGE(Psi)	14670	16157	16327
56 DAY RESULTS(Psi)	15630	17130	17940
	15610	17200	17600
	15710	17190	17790
56 DAY AVERAGE(Psi)	15650	17173	17777

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.

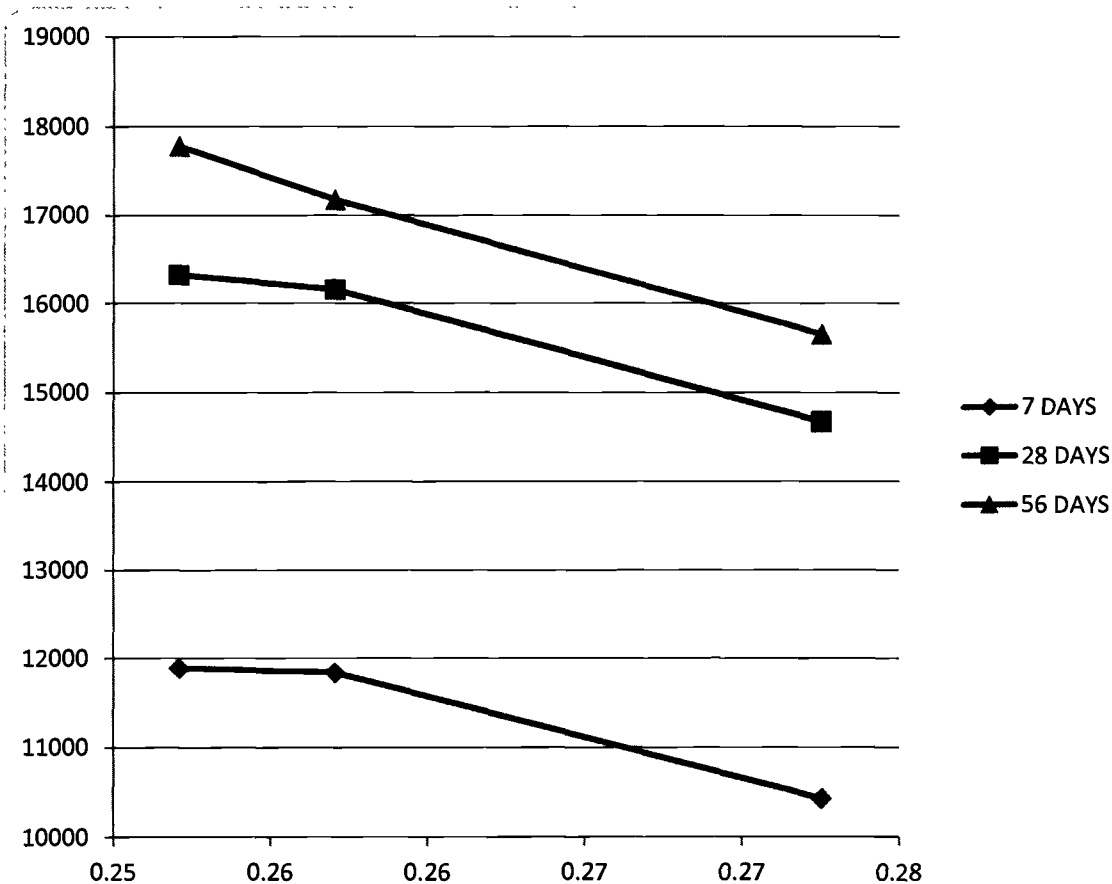
*This mix has been reviewed by Gleb Shevchenko of ACT, LLC

Date: 12/12/2014



PSI: 12000 + 1900 56 DAYS

COMPRESSIVE STRENGTH VS W/C RATIOS



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: 12/12/2014