



TR3P: Technical Report
Approved Producer
Concrete Design Mix

Must be typewritten.

DEPT BLDGS Job No. 121184841
Scan Code ESHS6371703

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				6/19/14	6/19/14	6/19/14
Specified Strength (f_c)				5000 PSI	6000 PSI	8000 PSI
Required Strength (f_{cr})				6200 PSI	7300 PSI	9500 PSI
Specified Test Age (Days)				28	28	56
	Material Type	Material Source	ASTM Standard			
Cementitious #1 (lbs)	Type I/II	Lafarge	ASTM C-150	525 lbs.	545 lbs.	560 lbs.
Cementitious #2 (lbs)	Fly Ash	STI Pro Ash	ASTM C-618	175 lbs.	180 lbs.	190 lbs.
Cementitious #3 (lbs)				lbs.	lbs.	lbs.
Fine Aggregate (lbs)	Long Island Natural	Roanoke S&G	ASTM C-33	1375 lbs.	1365 lbs.	1365 lbs.
Coarse Aggregate #1 (lbs)				lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)	#67 Stone	Tilcon	ASTM C-33	1050 lbs.	1025 lbs.	1000 lbs.
Coarse Aggregate #3 (lbs)	#8 Stone	Tilcon	ASTM C-33	625 lbs.	625 lbs.	625 lbs.
Amount of Water (gals)	Water	NYC DEP	Potable	32.5 gals.	33 gals.	33 gals.
Admixture #1 (oz)	Master Glenium 7500	BASF	ASTM C-494	64 oz	66 oz	68 oz
Admixture #2 (oz)				oz	oz	oz
Admixture #3 (oz)				oz	oz	oz
Other						
Water-Cement Ratio				.39	.38	.37
Slump/Spread (inches \pm tolerance)				19 \pm 3	20 \pm 3	21 \pm 3
Air Content (% \pm tolerance)				3 % \pm Mx	3 % \pm Mx	3 % \pm Mx
Unit Weight (lbs./ft ³)				149 lbs./ft ³	149 lbs./ft ³	149 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 Shevchenko**Title **Quality Control Manager**

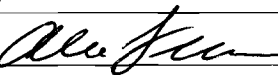
Signature

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**

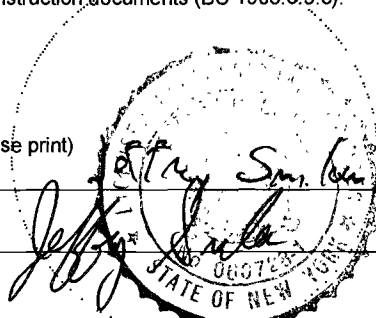
Signature

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)

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*

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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
PROJECT: 55 Hudson Street
New York, NY

DATE ISSUED: 8/18/2014
TYPE: 5000 Slump
MIX #: NYCC55Hudson81814-50kNA
PRODUCER: FERRARA BROS.

STRENGTH AT 28 DAYS	SLUMP (IN)	AIR CONTENT(%)	W/C RATIO	UNIT WEIGHT(PCF)
5000+1200	9+/- 1	3% Max	0.40	150.6

RECOMMENDED POINT #2

MATERIAL	BRAND	STANDARD	SPECIFIC GRAVITY	RECOMMENDED PROPORTIONS PER CUBIC YARD
CEMENT (LBS)	La Farge Type I/II	ASTM C150	3.15	470
FLY ASH (LBS)	STI Pro Ash	ASTM C618	2.3	155
SAND (LBS)	L.I.Natural (Roanoke)	ASTM C33	2.64	1340
STONE 1 (LBS)	# 67 Tilcon (Clinton Point)	ASTM C33	2.81	1850
WATER (LBS)	NYC POTABLE	ASTM C1602	1.00	248.0
WATER (GAL)	NYC POTABLE	ASTM C1602	1.00	29.8
ADMIX 1 (OZ)	Master Sure 1390	ASTM C260	1.01	2.5
ADMIX 2 (OZ)	Master Glenium 7500	ASTM C494	1.05	59.0

SAND GRADATION									
SAND	SIEVE SIZE	3/8"	#4	#8	#16	#30	#50	#100	F.M
	% PASS	100.0	96.1	90.3	77.4	52.6	16.5	1.8	2.65

STONE GRADATIONS									
SIEVE SIZE	2"	1-1/2"	1"	3/4"	1/2"	3/8"	#4	#8	#16
STONE #67			100.0	94.5		20.8	5.6	1.3	

NOTES:

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2. Structural Engineer of Record must approve this design mix before use on the project stated above.
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*This mix has been reviewed by Gleb Shevchenko of ACT, LLC.

Date: 12/12/14



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PROJECT: 55 Hudson Street
New York, NY

DATE ISSUED: 8/18/2014
TYPE: 5000 Slump
MIX #: NYCC55Hudson81814-50kNA
PRODUCER: FERRARA BROS.

PSI: 5000+1200 28 DAYS

TRIAL MIXES

POINT #	1	2	3
DATE OF TRIAL	8/18/2014	8/18/2014	8/18/2014
CEMENT (LBS)	450	470	490
FLY ASH (LBS)	150	155	160
SAND (LBS)	1385	1340	1300
STONE 1 (LBS)	1855	1850	1840
WATER(LBS)	239.0	248.0	258.0
WATER(GAL.)	28.7	29.8	31.0
ADMIX 1(OZ)	2.5	2.5	2.5
ADMIX 2(OZ)	53.0	59.0	52.0
SLUMP (IN)	6.50	8.00	8.00
AIR (%)	3.30	2.60	2.60
TEMP (F)	76	75	75
UNIT WEIGHT(PCF)	151.6	152.4	152.8
THEOR. UNIT WEIGHT	151.1	150.6	150.1
W/C RATIO	0.40	0.40	0.40
7 DAY RESULTS(Psi)	6260	6150	5850
	6260	6010	5880
	6040	6120	5860
7 DAY AVERAGE(Psi)	6187	6093	5863
28 DAY RESULTS(Psi)	8700	8850	8250
	8780	8590	8070
	8570	8480	8380
28 DAY AVERAGE(Psi)	8683	8640	8233
56 DAY RESULTS(Psi)	10080	9920	9130
	9910	9960	9200
	9980	10200	9210
56 DAY AVERAGE(Psi)	9990	10027	9180

NOTES:

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Date: 12/12/14

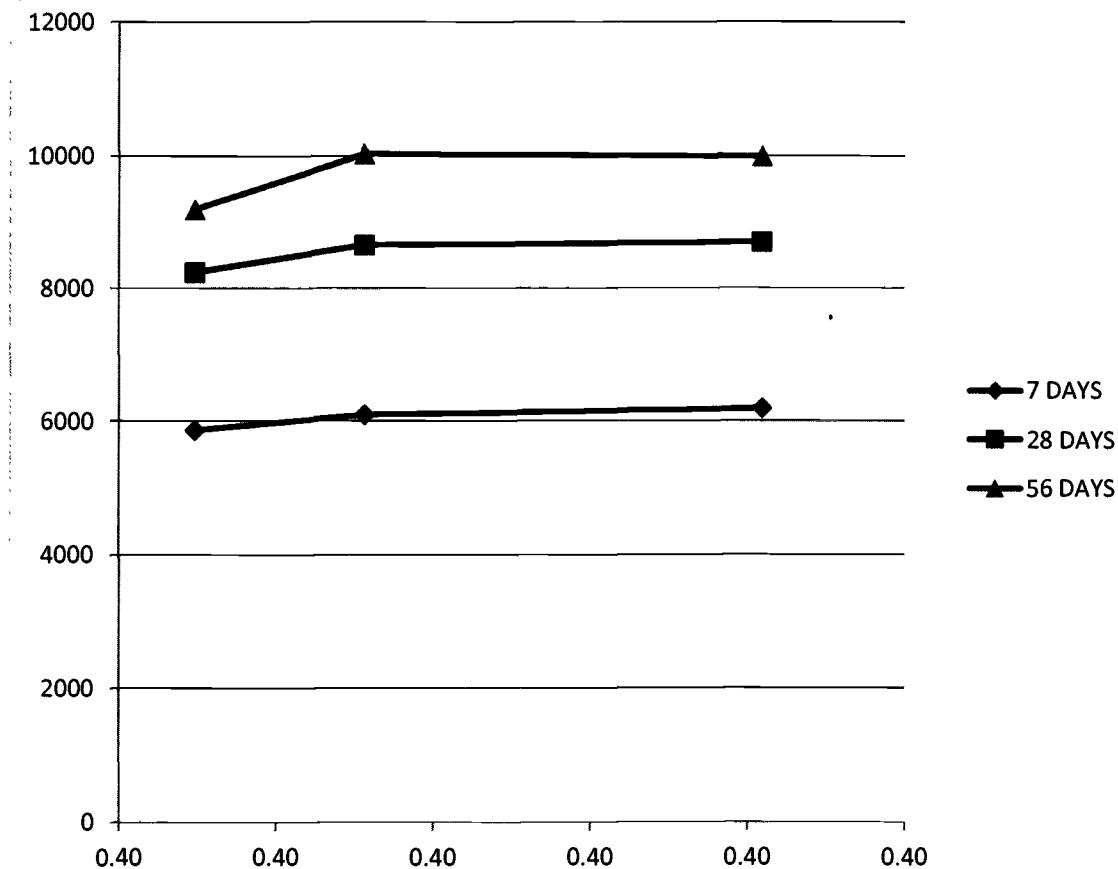


CLIENT: New York Concrete
PROJECT: 55 Hudson Street
New York, NY

DATE ISSUED: 8/18/2014
TYPE: 5000 Slump
MIX #: NYCC55Hudson81814-50kNA
PRODUCER: FERRARA BROS.

PSI: 5000+1200 28 DAYS

COMPRESSIVE STRENGTH VS W/C RATIOS



NOTES:

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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: 6000 Spread
MIX #: NYCC55Hudson61914-60kNA
PRODUCER: FERRARA BROS.

STRENGTH AT 28 DAYS	SPREAD (IN)	AIR CONTENT(%)	W/C RATIO	UNIT WEIGHT(PCF)
6000+1300	20" +/- 3"	3% Max	0.38	148.8

RECOMMENDED POINT # 2

MATERIAL	BRAND	STANDARD	SPECIFIC GRAVITY	RECOMMENDED PROPORTIONS PER CUBIC YARD
CEMENT (LBS)	La Farge Type I/II	ASTM C150	3.15	545
FLY ASH (LBS)	STI Pro Ash	ASTM C618	2.3	180
SAND (LBS)	L.I.Natural (Roanoke)	ASTM C33	2.64	1365
STONE 1 (LBS)	# 67 Tilcon (Clinton Point)	ASTM C33	2.81	1025
STONE 2 (LBS)	# 8 Tilcon (Clinton Point)	ASTM C33	2.81	625
WATER (LBS)	NYC POTABLE	ASTM C1602	1.00	275.0
WATER (GAL)	NYC POTABLE	ASTM C1602	1.00	33.0
ADMIX 1 (OZ)	Master Glenium 7500	ASTM C494	1.05	66.0

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:

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PRODUCER: FERRARA BROS.

PSI: 6000+1300 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:

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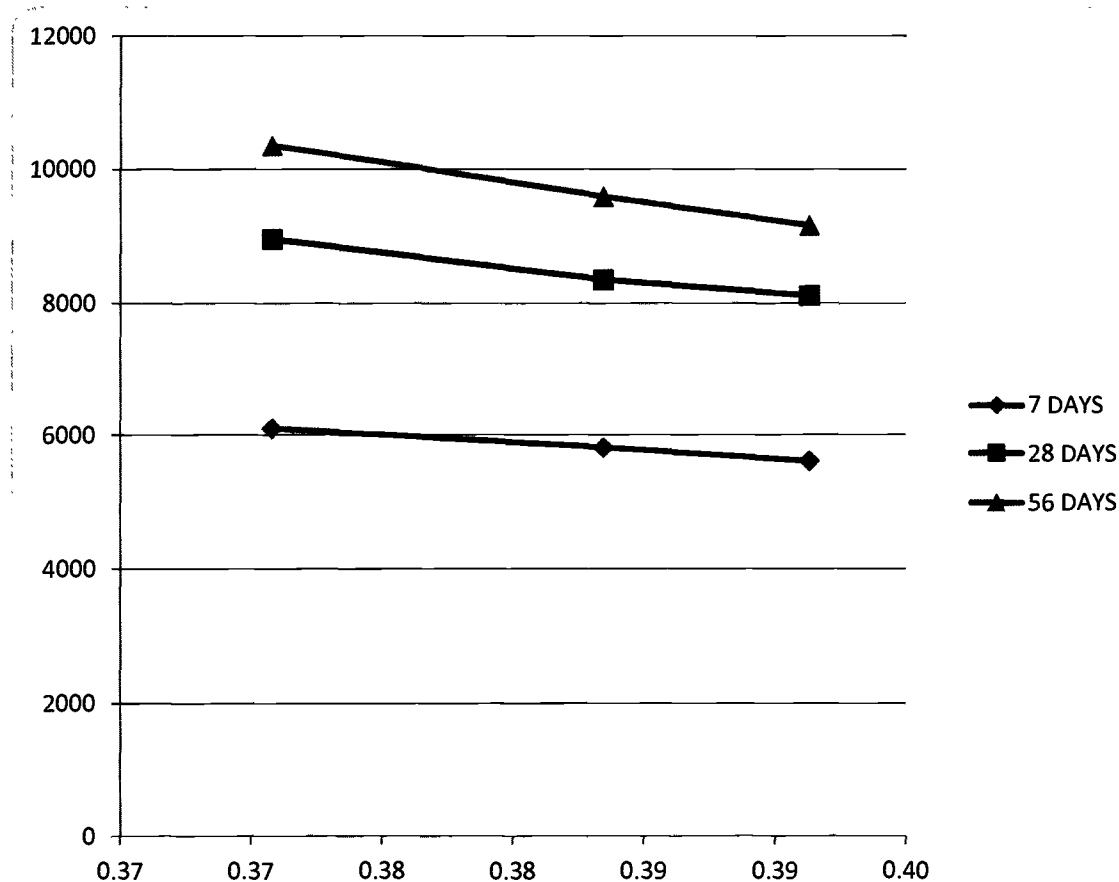


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PROJECT: 55 Hudson
New York, NY

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TYPE: 6000 Spread
MIX #: NYCC55Hudson61914-60kNA
PRODUCER: FERRARA BROS.

PSI: 6000+1300 28 DAYS

COMPRESSIVE STRENGTH VS W/C RATIOS



NOTES:

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

DATE ISSUED: 6/19/2014
TYPE: 8000 Spread
MIX #: NYCC55Hudson61914-80kNA
PRODUCER: FERRARA BROS.

STRENGTH AT 56 DAYS	SPREAD (IN)	AIR CONTENT(%)	W/C RATIO	UNIT WEIGHT(PCF)
8000+1500	21" +/- 3"	3% Max	0.37	148.8

RECOMMENDED POINT # 3

MATERIAL	BRAND	STANDARD	SPECIFIC GRAVITY	RECOMMENDED PROPORTIONS PER CUBIC YARD
CEMENT (LBS)	La Farge Type I/II	ASTM C150	3.15	560
FLY ASH (LBS)	STI Pro Ash	ASTM C618	2.3	190
SAND (LBS)	L.I.Natural (Roanoke)	ASTM C33	2.64	1365
STONE 1 (LBS)	# 67 Tilcon (Clinton Point)	ASTM C33	2.81	1000
STONE 2 (LBS)	# 8 Tilcon (Clinton Point)	ASTM C33	2.81	625
WATER (LBS)	NYC POTABLE	ASTM C1602	1.00	275.0
WATER (GAL)	NYC POTABLE	ASTM C1602	1.00	33.0
ADMIX 1 (OZ)	Master Glenium 7500	ASTM C494	1.05	68.0

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

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PSI: 8000+1500 56 DAYS

TRIAL MIXES

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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
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56 DAY AVERAGE(Psi)	9163	9593	10360

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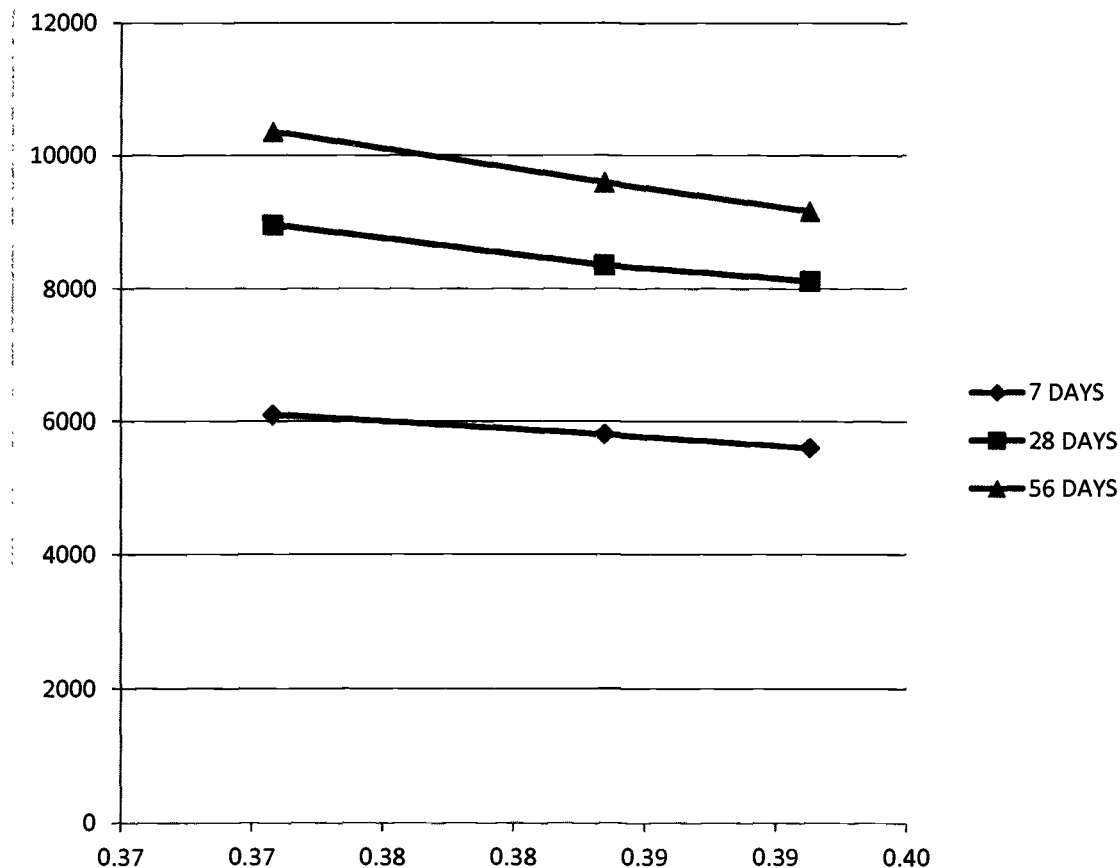


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COMPRESSIVE STRENGTH VS W/C RATIOS



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