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J.T. WATSON & ASSOCIATES

D/927915Ontab11

November 28, 2016

Delcor Equipment
2648 Kepler Road
Elginburg On.
K0H 1M0
Via Email Attention Mr. Les Bell

Re: Concrete Ontario
Ready Mixed Plant Audit & Certification
Fibo Intercon B 1200 Mobile concrete batch plant

Dear Sir:

We have reviewed the Fibo Intercon Model B 1200CC Mobile Concrete Production Plant in operation, at your site at Elginburg Ontario, to determine if it meets the criteria for certification under the “APPROVED QUALITY PROGRAM for Ready Mixed Concrete Production Facilities”.

This assessment was carried out as a CONCRETE ONTARIO (Ready Mixed Concrete Association of Ontario) “approved independent third party auditing professional engineer” and according to the approved “Ready Mixed concrete production facilities Audit and Check List” with the following exceptions.

As this is a production only facility, no delivery vehicles were inspected or reviewed and the ECO Audit (part B) was not conducted as concrete produced for sale is not anticipated.

The specific objective of this “audit” was to demonstrate that the subject plant the FIBO INTERCON B1200CC MOBILE CONCRETE BATCH PLANT can meet all the requirements for approval under the CONCRETE ONTARIO “APPROVED QUALITY PROGRAM”. The subject plant was set up and run producing concrete at the Delcor Equipment site in Elginburg On. The concrete produced was sampled by ACI certified Field Testing Technicians from various batches over a period of time, and the strength test specimens were stored, transported and, tested by a CCIL/ CSA certified laboratory. The results of those strength tests were analyzed and tabulated using the RMCAO Compressive Strength Test Statistical Analysis Program. The results of which are appended here.

Municipal Infrastructure Renewal
Project Management
Technical assessment/consulting related to concrete
Specialized Training & Certification
RMCAO Plant Audits
ACI certification/examination
Expert witness services

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The statistical analysis of strength test results is a requirement of the Audit, and the results indicated that the mobile concrete production plant offered for sale by Delcor Equipment (FIBO INTERCON 1200CC) can produce quality concrete with a high level of precision & reproducibility. No tests fell below the specified strength and the plant & control systems were able to meet all of the requirements of the Concrete Ontario Audit.

Concrete Ontario Producer members are required to maintain and operate **ALL** of their production facilities in accordance with the Concrete Ontario "Approved Quality Control Plan"; therefore, it was Delcor Equipment's objective to demonstrate that the mobile concrete plant they offer can meet those requirements and that a customer purchasing and using that equipment, either alone or for specific purposes within an existing Concrete production business, could meet the Audit requirements.

It is our opinion that the FIBO Intercon B1200CC mobile concrete plant (which has been specifically modified by the manufacturer to meet CSA standards) is categorized as a "central mix plant" and is capable of high levels of precision in the measurement of the raw material quantities even with small batch volumes as low as fractions of a cubic meter and can expediently produce homogeneous ready mixed concrete requiring no further (transit) mixing as needed for use in small quantities or if required at rates approaching 20 M3/hr. A purchaser of such a plant would have to meet the audit requirements of Concrete Ontario with respect to suitability of raw materials used, the condition of their delivery vehicles (if relevant) and the requisite environmental permits and processes.

We would be able to audit and, if site specific conditions were met, recommend such an installation for Concrete Ontario certification.

We trust you find this information suited for your purposes and those of your potential customers.

Yours Truly



J. T. Watson P. Eng

Concrete Ontario approved Auditing Engineer

Attach: Statistical analysis of strength test results.....

RMCAO Compressive Strength Test Statistical Analysis

29-Nov-2016

Delcor Equipment Kingston On.

Mandatory Truck #, Air Content			Optional 7 Day & Slump			Mandatory Data				Specified 28 day Strength (f'c)		32 MPa
Date	Truck	Plastic	3 Test			Cyl. # 1	Cyl. # 2	28 day	3 Test	CSA A23.1 Minimum for a Single Test		28.5 MPa
Cast	Ticket #	Air Content	Slump	7 day	Avg.	28 day	28 day	Avg.	Avg.			
1	May 27 2016	3.8	80		?	36.9	34.7	35.8				
2	May 27 2016	3.2	100		?	38.5	37.9	38.4				
3	May 27 2016	4.9	100		#DIV/0!	34.4	34.4	34.4	36.2			
4	Oct 9 2016	5.5	75		#DIV/0!	31.3	31.4	35.9	36.2			
5	Oct 9 2016	5.5	75		#DIV/0!	36.5	36.9	36.7	35.6			
6	Oct 9 2016	5.5	75		#DIV/0!	36.4	36.2	36.4	36.3			
7	Oct 7 2016	6.9	100		#DIV/0!	32.5	32.1	32.3	35.1			
8	Oct 7 2016	6.9	100		#DIV/0!	32.3	32.9	32.7	33.8			
9	Oct 7 2016	5.5	85		#DIV/0!	33.4	34.3	33.9	32.9			
10	Oct 7 2016	5.5	85		#DIV/0!	34.7	34.4	34.6	33.7			
11	Oct 14 2016	5.5	80		#DIV/0!	40.3	40.3	40.9	36.4			
12	Oct 14 2016	4.9	80		#DIV/0!	40.3	41.2	41.0	38.8			
13	Oct 14 2016	5.5	80		#DIV/0!	39.3	38.9	39.4	40.4			
14	Oct 14 2016	7.0	80		#DIV/0!	41.3	40.9	41.1	40.5			
15	Oct 14 2016	6.9	80		#DIV/0!	41.2	40.9	41.0	40.5			
16	Oct 14 2016	6.9	85		#DIV/0!	38.5	38.4	39.6	40.6			
17	Oct 20 2016	5.2	90	32.9	32.9	37.9	36.6	36.8	39.1			
18	Oct 20 2016	5.5	90	34.0	34.0	38.5	36.6	37.6	38.0			
19				34.0	?				37.2			
20				35.1	?				37.6			
21				#DIV/0!	?	300			#DIV/0!			
22				#DIV/0!	?	300			#DIV/0!			
23				#DIV/0!	?	300			#DIV/0!			
24				#DIV/0!	?	300			#DIV/0!			
25				#DIV/0!	?	300			#DIV/0!			
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41				#DIV/0!	?	300			#DIV/0!			
42				#DIV/0!	?	300			#DIV/0!			
43				#DIV/0!	?	300			#DIV/0!			
44				34.0	?				39.5			
45				34.0	?				39.2			
46				#DIV/0!	?	300			#DIV/0!			
47				#DIV/0!	?	300			#DIV/0!			
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58				#DIV/0!	?	300			#DIV/0!			
59				#DIV/0!	?	300			#DIV/0!			
60				#DIV/0!	?	300			#DIV/0!			

28 day Average37.1 MPa

Standard Deviation2.92 MPa

Coefficient of Variation7.9 %

Number of 28 day tests18

Standard Deviation3.39 MPa

(Adjusted for less than 30 tests)

Target Strength (CSA A23.1)36.1 MPa

Expected 7/28 day ratio83 %

Signature and Title of Ready Mix Company's
Signing Authority

Date

Notes for Data Entry

Note (1) Enter dates as mm/dd/yyyy

Note (2) Truck Numbers are just text

Note (3) Air Content %

Note (4) Slump mm

Note (5) Compressive Strengths MPa

Notes for flags beside data.

7 day flags

28 d expected to be below spec.)

28 d expected to be more than 3.5 below specified)

28 d 3 test avg. expected to be below spec.)

28 day flags

single test below specified)

single test failure - more than 3.5 MPa below specified)

3 test avg. failure - below specified)

Notes for Graph

Note (1) Individual tests from concrete meeting the minimum

for an average of 3 tests requirements, can be expected

to be below specified strength 10% of the time.

Note (2) When the concrete is proportioned to produce

an average "Target Strength" as indicated above (the green line),

the 3 test average will be expected to be over

the specified strength and no single test will be expected to be

more than 3.5 below specified, 99% of the time.

