



Concrete Mix Design Submission (Form A)

Project: Carleton Place Arena	Date: August 11, 2020
Location: 75 Neelin St, Carleton Place, ON	Submitted By: Gagandeep Singh
Contractor: Cavanagh Concrete	Contact: Shawn Armstrong

Batch Plants:			
Primary: Carleton Place, ON	Secondary: Jasper, ON		

Mix Code	209TNFO0000	259F2WA0000	259TNIS0000
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SPECIFICATIONS	Application / Element / Location	Footing	Wall	Indoor Slab
	Structural Requirements			
	CSA Exposure Class	TYPE-N	F-2	TYPE-N
	Maximum W/CM Ratio	0.65	0.55	0.65
	Minimum Specified Strength (MPa)	25	25	25
	Nominal Maximum Aggregate Size (mm)	19	19	19
	Maximum Slag Replacement (%)	25%	25%	25%
	Maximum Fly Ash Replacement (%)	N/A	N/A	N/A
	Plastic Air Content (%)	N/A	4-7%	N/A
	Durability Requirements			
Cement Content (if specified)	N/A	N/A	N/A	
Alkali Aggregate Reactivity	Meets CSA	Meets CSA	Meets CSA	
Other:				

CONTRACTOR REQUIREMENTS	Rate (m³/h)			
	Quantity (m³)			
	Slump Range (mm)	50-110	90-150	50-110
	Strength @ Age (MPa)	25Mpa @ 28DAYS	25Mpa @ 28DAYS	25Mpa @ 28DAYS
	Cement	GU & SCM	GU & SCM	GU & SCM
	Specialty Information			
	Concrete Set (Delay, Normal, Accelerated)	N	N	N
	- Set retarder			
Method of Placement	CHUTE/PUMP	CHUTE/PUMP	CHUTE/PUMP	

MATERIALS SECTION	Material	Source Info					
	Cement	McInnis	Port-Daniel	(kg/m³)	x	x	x
	SCM-Slag	CRH	Mississauga	(kg/m³)	x	x	x
	Water	Well		(L/m³)	x	x	x
	Fine Agg.	Cavanagh	Lanark Pit	(kg/m³)	x	x	x
	Coarse Agg.	Cavanagh	Henderson Quarry	(kg/m³)	x	x	x
	A.E.A	Airex-I	Euclid	(mL/100kg)		x	
	W.R	Eucon WR	Euclid	(mL/100kg)	x	x	x
	Retarder	Eucon 727	Euclid	(mL/100kg)	x	x	x
	H.R W.R	Plastol 341	Euclid	(mL/100kg)	x	x	x

Form Submitted By:

Print Name: Gagandeep Singh	Signature:	Date: August-11-20
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Contractor's Representative:

Print Name:	Signature:	Date:
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NOTES:

- The "Concrete Supplier" provides to the contractor, a valid "Certificate of Concrete Production Facilities" as issued by the RMCAO (copy available upon request). Check www.rmcao.org for an updated list of certified concrete plants.
- The "Concrete Supplier" certifies that all materials incorporated in the mix designs meet current CSA A23.1 requirements.
- Concrete testing shall incorporate www.cmat.com and shall be used by the testing company.
- Concrete tests not done according to CSA Standards shall not be accepted for any basis of measurement.
- The Owner shall be responsible for performance "off the chute" if the owner specifies any material proportion(s).
- To assist us in further monitoring the quality of our concrete & to comply with current CSA specification A 23.1 -4.4.1.4, the contractor agrees to place the "Concrete supplier" on the distribution list for all concrete test reports.

