



Concrete Cylinder Test Report

PROJECT INFO

ASTM C31, ASTM C39, AASHTO T23, AASHTO T22, ASTM C172, AASHTO R60

Client	AECOM	Date Of Placement	12/05/2020
Project Name	PW-7005 Kercheval Streetscape	Specimen Type	Concrete Cylinder
Project Number	2019057B	Contractor	Z Contracting
Project Location	Detroit, MI	Concrete Supplier	SRM Concrete
MDOT Job Number		Field Tested By	Ryan Castillo
MDOT Control Section		Date Issued	01/02/2021
Results Recorded In	English Units		
Supplier Mix Description	MDOT P-NC - 6" Slump		

DESIGN PARAMETER

Mix Design Number	0749 P-NCOM-1				
Design Compressive Strength (psi)	3500				
Air (% Max)	8.5	Slump (in Max)	6.00	Unit Weight (lbs/ft ³)	
Air (% Min)	5.5	Slump (in Min)	3.00		

TESTING DATA

Placed 77.00 +/- yds ³ /ft ³ of concrete at the following location: Pouring for approaches, bus stop islands, structure adjustments, and curb on Kercheval.									
Time Tested	Truck Num	Slump ASTM C143 (in)	Air ASTM C231 or C173 (%)	Unit Weight ASTM C138 (lbs/ft ³)	Air Temp (°F)	Mix Temp ASTM C1064 (°F)	Concrete Cylinder Set	Water Added (gal)	Cumulative Concrete Placed At Test (yds ³ /ft ³)
1:40 PM	1472	4.50	6.60	0.0	32	66	1	0	1

MATERIAL DATA

Concrete Cylinder Set	Concrete Cylinder Num	Diameter (in)	X-Sec Area (in ²)	Weight (lbs)	Fracture Type	Capping Process	Age Of Concrete Cylinder (Days)	Date Tested	Total Load At Failure (lbs)	Cumulative Strength (psi/mpa)
1	82191	4.00	12.57	8.50	2- (Cone/Vertical)	Unbonded Cap	28	01/02/2021	65870	5240
1	82192	4.00	12.57	8.39	2- (Cone/Vertical)	Unbonded Cap	28	01/02/2021	64970	5170

Average 28 Day Compressive Strength (psi): 5205

*Cylinders tested with Unbonded Caps followed ASTM C1231, cylinders tested with Bonded Caps followed ASTM C617.

*All Air Content % tests were performed per C231 unless otherwise noted in the remarks.

*Inspector was notified of non-conformance items, if any.

*Average Compressive Strength results did meet project specifications.

Remarks:	
Results Reported To:	AECOM(Alan Ostrowski)
Report Approved By:	Matthew Johnson



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MDOT Control Section		Date Issued	01/02/2021
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TESTING DATA

Placed 77.00 +/- yds³/ft³ of concrete at the following location: Pouring for approaches, bus stop islands, structure adjustments, and curb on Kercheval.

Time Tested	Truck Num	Slump ASTM C143 (in)	Air ASTM C231 or C173 (%)	Unit Weight ASTM C138 (lbs/ft ³)	Air Temp (°F)	Mix Temp ASTM C1064 (°F)	Concrete Cylinder Set	Water Added (gal)	Cumulative Concrete Placed At Test (yds ³ /ft ³)
4:15 PM	1472	5.00	6.40	0.0	32	64	2	0	51

MATERIAL DATA

Concrete Cylinder Set	Concrete Cylinder Num	Diameter (in)	X-Sec Area (in ²)	Weight (lbs)	Fracture Type	Capping Process	Age Of Concrete Cylinder (Days)	Date Tested	Total Load At Failure (lbs)	Cumulative Strength (psi/mpa)
2	82193	4.00	12.57	8.43	2- (Cone/Vertical I)	Unbonded Cap	28	01/02/2021	69160	5500
2	82194	4.00	12.57	8.52	3-(Vertical)	Unbonded Cap	28	01/02/2021	68340	5440

Average 28 Day Compressive Strength (psi): 5470

*Cylinders tested with Unbonded Caps followed ASTM C1231, cylinders tested with Bonded Caps followed ASTM C617.

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