



Concrete Cylinder Test Report

PROJECT INFO

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

Client	AECOM	Date Of Placement	12/04/2020
Project Name	PW-7005 Kercheval Streetscape	Specimen Type	Concrete Cylinder
Project Number	2019057B	Contractor	Major Cement
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 132.00 +/- yds ³ /ft ³ of concrete at the following location: Pouring for approaches, bus stop islands, structure adjustments, and curb.									
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)
8:15 AM	2444	4.50	6.80	0.0	37	62	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	82185	4.00	12.57	8.35	2- (Cone/Vertical)	Unbonded Cap	28	01/01/2021	59340	4720
1	82186	4.00	12.57	8.24	2- (Cone/Vertical)	Unbonded Cap	28	01/01/2021	58220	4630

Average 28 Day Compressive Strength (psi): 4675

*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
Results Recorded In	English Units		
Supplier Mix Description	MDOT P-NC - 6" Slump		

DESIGN PARAMETER

Mix Design Number	0749 P-NC0M-1		
Design Compressive Strength (psi)	3500		
Air (% Max)	8.5	Slump (in Max)	6.00
Air (% Min)	5.5	Slump (in Min)	3.00

TESTING DATA

Placed 132.00 +/- yds³/ft³ of concrete at the following location: Pouring for approaches, bus stop islands, structure adjustments, and curb.

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)
11:40 AM	3720	5.00	7.40	0.0	41	66	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	82187	4.00	12.57	8.25	2- (Cone/Vertical)	Unbonded Cap	28	01/01/2021	59750	4750
2	82188	4.00	12.57	8.38	2- (Cone/Vertical)	Unbonded Cap	28	01/01/2021	61870	4920

Average 28 Day Compressive Strength (psi): 4835

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

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Design Compressive Strength (psi)	3500		
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Air (% Min)	5.5	Slump (in Min)	3.00

TESTING DATA

Placed 132.00 +/- yds³/ft³ of concrete at the following location: Pouring for approaches, bus stop islands, structure adjustments, and curb.

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)
4:00 PM	4509	5.00	7.40	0.0	42	66	3	0	101

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)
3	82189	4.00	12.57	8.39	3-(Vertical)	Unbonded Cap	28	01/01/2021	60620	4820
3	82190	4.00	12.57	8.32	2-(Cone/Vertical)	Unbonded Cap	28	01/01/2021	59500	4730

Average 28 Day Compressive Strength (psi): 4775

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

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