



Concrete Cylinder Test Report

PROJECT INFO

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

Client	AECOM	Date Of Placement	07/12/2021
Project Name	PW-7023 Conner Improvements	Specimen Type	Concrete Cylinder
Project Number	2019057D-002	Contractor	Century Cement
Project Location	Detroit, MI	Concrete Supplier	Hercules Material Holdings, LLC
MDOT Job Number		Field Tested By	Ryan Castillo
MDOT Control Section		Date Issued	08/09/2021
Results Recorded In	English Units		
Supplier Mix Description	City of Detroit P1 MR		

DESIGN PARAMETER

Mix Design Number	0873 P1-DETM		
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 78.00 +/- yds ³ /ft ³ of concrete at the following location: Pouring sidewalks and bus landings on Connor between Mack and Charlevoix									
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)
7:15 AM	2101	5.00	6.80	0.0	68	80	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	84581	4.00	12.57	8.12	2- (Cone/Vertical)	Unbonded Cap	28	08/09/2021	56090	4460
1	84582	4.00	12.57	8.14	3-(Vertical)	Unbonded Cap	28	08/09/2021	56870	4520

Average 28 Day Compressive Strength (psi): 4490

*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:	Brian Gondek



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1:10 PM	2116	5.25	6.60	0.0	70	82	2	0	51

MATERIAL DATA

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2	84583	4.00	12.57	8.14	3-(Vertical)	Unbonded Cap	28	08/09/2021	55400	4410
2	84584	4.00	12.57	8.10	3-(Vertical)	Unbonded Cap	28	08/09/2021	57020	4540

Average 28 Day Compressive Strength (psi): 4475

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

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