



Concrete Cylinder Test Report

PROJECT INFO

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

Client	HRC	Date Of Placement	08/06/2020
Project Name	HMA Resurfacing 20+ Locations	Specimen Type	Concrete Cylinder
Project Number	2019086C	Contractor	merlo
Project Location	Detroit, MI	Concrete Supplier	Superior Materials, LLC
MDOT Job Number	205935A, 207914A	Field Tested By	Cody Cervelli
MDOT Control Section	82000	Date Issued	09/04/2020
Results Recorded In	English Units		
Supplier Mix Description	Structure Adjustment		

DESIGN PARAMETER

Mix Design Number	0675 P155ERCQA032		
Design Compressive Strength (psi)	3500		
Air (% Max)	8.5	Slump (in Max)	6.00
Air (% Min)	5.5	Slump (in Min)	3.50

TESTING DATA

Placed 81.00 +/- yds ³ /ft ³ of concrete at the following location: Sidewalks & ADA Ramps at Jos. Campau & McLean St. And at Jos. Campau & Lawley St.									
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)
10:00 AM	3205	3.50	6.00	0.0	72	82	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	79336	4.00	12.57	8.08	2- (Cone/Vertical)	Unbonded Cap	28	09/03/2020	61750	4910
1	79337	4.00	12.57	8.33	3-(Vertical)	Unbonded Cap	28	09/03/2020	66620	5300

Average 28 Day Compressive Strength (psi): 5105

- *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:	HRC(Kevin Surhigh)
Report Approved By:	Matthew Johnson



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3:25 PM	1392	6.00	7.60	0.0	75	88	2	0	52

MATERIAL DATA

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2	79338	4.00	12.57	8.29	3-(Vertical)	Unbonded Cap	28	09/03/2020	66530	5290
2	79339	4.00	12.57	8.08	3-(Vertical)	Unbonded Cap	28	09/03/2020	63180	5030

Average 28 Day Compressive Strength (psi): 5160

*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:	
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