



# CONSTRUCTION CONSULTING & TESTING, INC.

TOLEDO OFFICE - 700 S. River Road Waterville, Ohio 43566 Ph.: (419) 878-7304  
DETROIT OFFICE - 35410 Mound Rd. Sterling Hts., Michigan 48310 Ph.: (586) 795-2877

Client: Century Cement  
12670 Sibley Road  
Riverview, MI 48193

Project: PW 7023

MDOT:

Date: July 7, 2021

CCT No.: 201-20086-4B

## REPORT OF CONCRETE COMPRESSIVE STRENGTH

DATE OF POUR: 6/30/2021

LOCATION OF POUR: Pavement: NB Conner south of Chandler Park

SUPPLIER: Hercules

TICKET NO.: 423257

MIX I.D.: P1-DETMR-1

FIELD DATA: Set 2 of 3

DATE: 6/30/2021

BATCH TIME: 10:57 AM

TEST TIME: 12:00 PM

AIR CONTENT (%): 6.7%

SLUMP (in.): 4 1/2

CONC. TEMP. (F): 84

AIR TEMP. (F): 76

UNIT WT. (pcf): ---

MOLDED BY: CCT

\*\*\*Testing conforms to ASTM C 172, C 231, C 143, C 1064, C 138, C 31, & C 39/C 39M

| LAB NO. | BREAK DATE | AGE (days) | DIA. (in) | AREA (sq. in.) | LOAD (lbs) | COMPRESSIVE STRENGTH (psi) | TYPE OF FRACTURE |
|---------|------------|------------|-----------|----------------|------------|----------------------------|------------------|
| 960     | 07/07/21   | 7          | 4         | 12.56          | 50,570     | 4030                       | 3                |
| 961     | 07/07/21   | 7          | 4         | 12.56          | 50,440     | 4020                       | 3                |
| 962     | 07/28/21   | 28         | 4         | 12.56          |            | 0                          |                  |
| 963     | 07/28/21   | 28         | 4         | 12.56          |            | 0                          |                  |
|         |            |            |           |                |            |                            |                  |
|         |            |            |           |                |            |                            |                  |

Cylinder Size: 4" x 8"

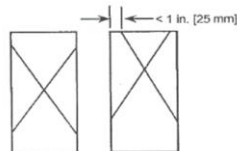
7 DAY AVERAGE

4,025

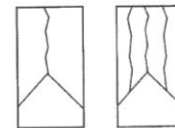
28 DAY SPEC.

3,500

Comments:



Type 1  
Reasonably well-formed cones on both ends, less than 1 in. [25 mm] of cracking through caps



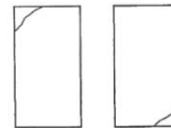
Type 2  
Well-formed cone on one end, vertical cracks running through both ends, no well-defined cone on other end



Type 3  
Columnar vertical cracking through both ends, no well-formed cones



Type 4  
Diagonal fracture with no cracking through ends; tap with hammer to distinguish from Type 1



Type 5  
Side fractures at top or bottom (occur commonly with unbonded caps)



Type 6  
Similar to Type 5 but end of cylinder is pointed

Reviewed By:

Mitch Forst, President

Distribution: Century Cement

Typical Fracture Patterns