



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 22, 2021

CCT No.: 201-20086-2B

REPORT OF CONCRETE COMPRESSIVE STRENGTH

DATE OF POUR: 6/24/2021

LOCATION OF POUR: Pavement: NB Conner @ Chandler Park

SUPPLIER: Hercules

TICKET NO.: 423019

MIX I.D.: P1-DETM-1

FIELD DATA: Set 2 of 3

DATE: 6/24/2021

BATCH TIME: 10:52 AM

TEST TIME: 12:00 PM

AIR CONTENT (%): 5.7%

SLUMP (in.): 5

CONC. TEMP. (F): 82

AIR TEMP. (F): 77

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
928	07/01/21	7	4	12.56	46,340	3690	3
929	07/01/21	7	4	12.56	44,650	3550	3
930	07/22/21	28	4	12.56	49,220	3920	5
931	07/22/21	28	4	12.56	49,990	3980	3

Cylinder Size: 4" x 8"

28 DAY AVERAGE

3,950

28 DAY SPEC.

3,500

Comments:

Reviewed By:

Mitch Forst, President

Distribution: Century Cement



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

Typical Fracture Patterns