



CONSTRUCTION CONSULTING & TESTING, INC.

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Client: Century Cement
12670 Sibley Road
Riverview, MI 48193

Project: PW 7023

MDOT:

Date: July 22, 2021

CCT No.: 201-20086-2C

REPORT OF CONCRETE COMPRESSIVE STRENGTH

DATE OF POUR: 6/24/2021

LOCATION OF POUR: Pavement: NB Conner @ Kercheval

SUPPLIER: Hercules

TICKET NO.: 423049

MIX I.D.: P1-DETM-1

FIELD DATA: Set 3 of 3

DATE: 6/24/2021

BATCH TIME: 2:38 PM

TEST TIME: 4:05 PM

AIR CONTENT (%): 7.6%

SLUMP (in.): 5 1/4

CONC. TEMP. (F): 85

AIR TEMP. (F): 83

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
932	07/01/21	7	4	12.56	41,860	3330	3
933	07/01/21	7	4	12.56	42,790	3410	2
934	07/22/21	28	4	12.56	53,730	4280	3
935	07/22/21	28	4	12.56	53,680	4270	5

Cylinder Size: 4" x 8"

28 DAY AVERAGE

4,275

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