



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 27, 2021

CCT No.: 201-20086-3A

REPORT OF CONCRETE COMPRESSIVE STRENGTH

DATE OF POUR: 6/29/2021

LOCATION OF POUR: Pavement: Conner @ Kercheval, NE Corner

SUPPLIER: Hercules

TICKET NO.: 423178

MIX I.D.: P1-DETM-1

FIELD DATA: Set 1 of 1

DATE: 6/29/2021

BATCH TIME: 6:23 AM

TEST TIME: 7:40 AM

AIR CONTENT (%): 6.9%

SLUMP (in.): 4 1/4

CONC. TEMP. (F): 86

AIR TEMP. (F): 74

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
948	07/06/21	7	4	12.56	40,150	3200	5
949	07/06/21	7	4	12.56	38,510	3070	3
950	07/27/21	28	4	12.56	49,170	3910	3
951	07/27/21	28	4	12.56	51,360	4090	3

Cylinder Size: 4" x 8"

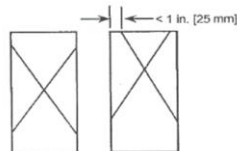
28 DAY AVERAGE

4,000

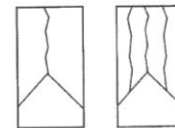
28 DAY SPEC.

3,500

Comments:



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



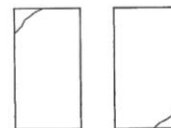
Type 2
Well-formed cone on one end, vertical cracks running through both ends, no well-defined cone on other end



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