

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: August 19, 2021

CCT No.: 201-20086-13A

REPORT OF CONCRETE COMPRESSIVE STRENGTH

DATE OF POUR: 7/22/2021

LOCATION OF POUR: Sidewalk: NB Conner & Mack Service Dr.

SUPPLIER: Hercules

TICKET NO.: 424392

MIX I.D.: P1-DETM

FIELD DATA: Set 1 of 2

DATE: 7/22/2021

BATCH TIME: 6:35 AM

TEST TIME: 9:00 AM

AIR CONTENT (%): 6.8%

SLUMP (in.): 5

CONC. TEMP. (F): 79

AIR TEMP. (F): 62

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 1320	BREAK DATE	AGE (days)	DIA. (in)	AREA (sq. in.)	LOAD (lbs)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE
1320	07/29/21	7	4	12.56	41,260	3290	3
1321	07/29/21	7	4	12.56	40,720	3240	2
1322	08/19/21	28	4	12.56	52,430	4170	3
1323	08/19/21	28	4	12.56	56,860	4530	3

Cylinder Size: 4" x 8"

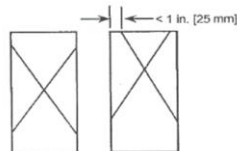
28 DAY AVERAGE

4,350

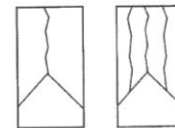
28 DAY SPEC.

3,500

Comments:



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



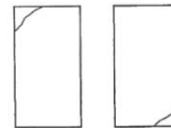
Type 2
Well-formed cone on one
end, vertical cracks running
through both ends, no well-
defined cone on other end



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