

CONSTRUCTION CONSULTING & TESTING, INC.

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Client: Century Cement
12670 Sibley Road
Riverview, MI 48193

Project: PW 7023

MDOT:

Date: August 25, 2021

CCT No.: 201-20086-15B

REPORT OF CONCRETE COMPRESSIVE STRENGTH

DATE OF POUR: 7/28/2021

LOCATION OF POUR: Sidewalk: Conner & Frankfort

SUPPLIER: Hercules

TICKET NO.: 424650

MIX I.D.: P1-DET-2

FIELD DATA: Set 2 of 2

DATE: 7/28/2021

BATCH TIME: 9:53 AM

TEST TIME: 11:00 AM

AIR CONTENT (%): 5.5%

SLUMP (in.): 4 1/2

CONC. TEMP. (F): 80

AIR TEMP. (F): 79

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
1340	08/04/21	7	4	12.56	39,240	3120	2
1341	08/04/21	7	4	12.56	40,320	3210	5
1342	08/25/21	28	4	12.56	55,420	4410	3
1343	08/25/21	28	4	12.56	55,610	4430	5

Cylinder Size: 4" x 8"

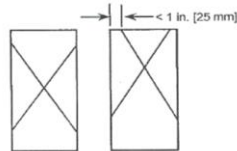
28 DAY AVERAGE

4,420

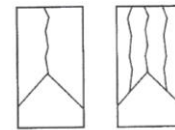
28 DAY SPEC.

3,500

Comments:



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



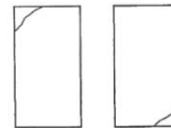
Type 2
Well-formed cone on one end, vertical cracks running through both ends, no well-defined cone on other end



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