



CONSTRUCTION CONSULTING & TESTING, INC.

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Client: Merlo Construction Co., Inc.
4964 Technical Dr.
Milford, MI 48381

Project: PW 7023

Merlo: 22-151

Date: January 3, 2023

CCT No.: 201-22099-3A

REPORT OF CONCRETE COMPRESSIVE STRENGTH

DATE OF POUR: 12/6/2022

LOCATION OF POUR: Sidewalk: Warren & Conner across from Popeyes

SUPPLIER: Hercules

TICKET NO.: 453431
MIX I.D.: P1-DET

FIELD DATA: Set 1 of 1

DATE: 12/6/2022
BATCH TIME: 9:41 AM
TEST TIME: 10:50 AM
AIR CONTENT (%): 7.6%
SLUMP (in.): 4
CONC. TEMP. (F): 65
AIR TEMP. (F): 43
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

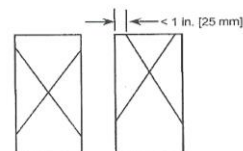
LAB NO.	BREAK DATE	AGE (days)	DIA. (in)	AREA (sq. in.)	LOAD (lbs)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE
4001	12/13/22	7	4.00	12.56	52,970	4220	5
4002	12/13/22	7	4.00	12.56	55,470	4420	5
4003	01/03/23	28	4.00	12.56	63,610	5060	5
4004	01/03/23	28	4.00	12.56	62,570	4980	5

Nominal Cylinder Size: 4" x 8"

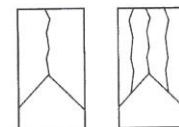
28 DAY AVERAGE 5,020

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



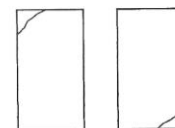
Type 2
Well-formed cone on one end, vertical cracks running through both ends, no well-defined cone on other end



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 D. Forst, P.E.

Distribution: Brian Gustin - Merlo

Typical Fracture Patterns