



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: December 29, 2022

CCT No.: 201-22099-2

REPORT OF CONCRETE COMPRESSIVE STRENGTH

DATE OF POUR: 12/1/2022

LOCATION OF POUR: Sidewalk: Warren & Conner

SUPPLIER: Hercules

TICKET NO.: 453057
MIX I.D.: P1-DETM

FIELD DATA: Set 1 of 1

DATE: 12/1/2022
BATCH TIME: 12:32 PM
TEST TIME: 1:32 PM
AIR CONTENT (%): 6.2%
SLUMP (in.): 4 1/2
CONC. TEMP. (F): 58
AIR TEMP. (F): 36
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

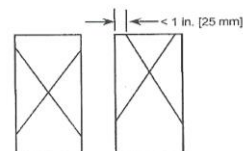
LAB NO.	BREAK DATE	AGE (days)	DIA. (in)	AREA (sq. in.)	LOAD (lbs)	COMPRESSIVE STRENGTH (psi)	TYPE OF FRACTURE
3985	12/29/22	28	4.00	12.56	81,240	6470	3
3986	12/29/22	28	4.00	12.56	84,820	6750	2

Nominal Cylinder Size: 4" x 8"

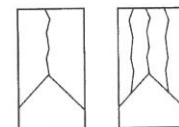
28 DAY AVERAGE 6,610

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



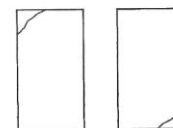
Type 2
Well-formed cone on one end, vertical cracks running through both ends, no well-defined cone on other end



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