

Carlesimo Products, Inc.

29800 W. EIGHT MILE ROAD FARMINGTON HILLS, MI 48336 248-474-0415 FAX 248-474-5199

Certificate of Compliance with Michigan State Specifications

Date 05-08-20

We hereby certify that the material listed below is in compliance
with 2012 Specifications # 913. (ASTM C-139 Block, ASTM C-55 Brick)

7200 - Concrete Manhole Brick

960 - 24"x6" Concrete Manhole Block

196 - 48"x6" Concrete Manhole Block

Project - MDOT #82000-205935

Customer - Major Cement

Location- 15347 Dale St, Detroit

Lot# 21750

Lot Date

9-11-19

9-30-19

9-30-19

Sincerely,

George Roest

Superintendent

Carlesimo Products, Inc



Manhole Block Report

SME PROJECT NO: 079909.00

DATE: 09/30/19

PROJECT: 2018-2019 Carlesimo Block Testing
 LOCATION: Farmington Hills, MI
 ARCHITECT/ENGINEER
 STRUCTURE: CONTRACTOR:
 TYPE UNIT: 48 x 6 Manhole Block PORTION:
 PRODUCER: Carlesimo PLANT:
 SAMPLED AT: Plant SIZE:
 DESIGN STRENGTH (psi): 2500 SUBMITTED BY: Carlesimo

PHYSICAL PROPERTIES

COMPRESSIVE STRENGTH RESULTS

UNIT NUMBER	DATE TESTED	SIZE TESTED (in)	NET AREA (sq in)	TOTAL LOAD	PSI
A	10/15/2019	7.83 x 1.92	15.03	53,370	3,550
B	10/15/2019	7.74 x 1.90	14.70	53,340	3,630
C	10/15/2019	7.78 x 1.88	14.62	51,290	3,510
TEST SPECIMENS CAPPED WITH Hydrostone				AVERAGE	3,560

NET AREA

ABSORPTION

UNIT NUMBER	NET VOLUME (ft)	HEIGHT (in)	DENSITY PCF	AVERAGE NET AREA (in ²)	AS RECEIVED WEIGHT (lbs)	ABSORPTION PCF	ABSORPTION
1	0.05	5.55	140.9	15.1	34.95	7.0	5.0
2	0.06	5.53	140.8	17.8	34.79	7.0	5.0
3	0.05	5.56	140.4	15.4	35.03	7.1	5.1
AVERAGE	0.05	5.55	140.7	16.1	34.92	7.0	5.0

DIMENSIONS

UNIT NUMBER	AVERAGE LENGTH (in)	AVERAGE WIDTH (in)	AVERAGE HEIGHT (in)	MINIMUM FACE-SHELL THICKNESS (in)	MINIMUM WEB THICKNESS (in)	EQUIVALENT WEB THICKNESS (in/linear ft)

REMARKS: All units were saw cut in general accordance to ASTM C140 to properly size them to conform to the capabilities of the testing machine. The concrete manhole tested meets ASTM C139 requirements for compressive strength and absorption.

REPORTED BY: Ryan Wilk

REVIEWED BY: Nick Atkins



Manhole Block Report

SME PROJECT NO: 079909.00

DATE: 09/30/19

PROJECT: 2018-2019 Carlesimo Block Testing
 LOCATION: Farmington Hills, MI
 ARCHITECT/ENGINEER
 STRUCTURE:
 TYPE UNIT: 24 x 6 Manhole Block
 PRODUCER: Carlesimo
 SAMPLED AT: Plant
 DESIGN STRENGTH (psi): 2500

CONTRACTOR:
 PORTION:
 PLANT:
 SIZE:
 SUBMITTED BY: Carlesimo

PHYSICAL PROPERTIES

COMPRESSIVE STRENGTH RESULTS

UNIT NUMBER	DATE TESTED	SIZE TESTED (in)	NET AREA (sq in)	TOTAL LOAD	PSI
D	10/15/2019	7.81 x 2.07	16.16	56,500	3,500
E	10/15/2019	7.86 x 2.08	16.34	59,870	3,660
F	10/15/2019	7.82 x 2.01	15.71	57,750	3,680
TEST SPECIMENS CAPPED WITH Hydrostone				AVERAGE	3,610

NET AREA

ABSORPTION

UNIT NUMBER	NET VOLUME (ft)	HEIGHT (in)	DENSITY PCF	AVERAGE NET AREA (in ²)	AS RECEIVED WEIGHT (lbs)	ABSORPTION PCF	ABSORPTION
4	0.04	5.55	135.3	12.4	32.38	9.3	6.9
5	0.04	5.53	137.2	13.3	33.00	8.4	6.2
6	0.04	5.55	146.9	11.1	32.59	9.0	6.1
AVERAGE	0.04	5.5	139.8	12.3	32.66	8.9	6.4

DIMENSIONS

UNIT NUMBER	AVERAGE LENGTH (in)	AVERAGE WIDTH (in)	AVERAGE HEIGHT (in)	MINIMUM FACE-SHELL THICKNESS (in)	MINIMUM WEB THICKNESS (in)	EQUIVALENT WEB THICKNESS (in/linear ft)

REMARKS: All units were saw cut in general accordance to ASTM C140 to properly size them to conform to the capabilities of the testing machine. The concrete manhole tested meets ASTM C139 requirements for compressive strength and absorption.

REPORTED BY: Ryan Wilk

REVIEWED BY: Nick Atkins



Manhole Brick Report

SME PROJECT NO: 79909.00

WORK ORDER NO:

DATE: 09/11/19

PROJECT: Carlesimo Block Testing

LOCATION:

ARCHITECT/ENGINEER

STRUCTURE:

TYPE UNIT: Manhole Brick

PRODUCER: Carlesimo

SAMPLED AT: Plant

DESIGN STRENGTH (psi):

CONTRACTOR:

PORTION:

PLANT:

SIZE:

SUBMITTED BY:

PHYSICAL PROPERTIES

COMPRESSIVE STRENGTH RESULTS

UNIT NUMBER	DATE TESTED	WEIGHT (lbs)	HEIGHT (in)	AREA SQ. IN.	TOTAL LOAD	PSI
1	9/10/2019	5.75	2.53	27.90	326,480	11,700
2	9/10/2019	5.83	2.56	28.04	321,890	11,480
3	9/10/2019	5.77	2.57	28.00	314,480	11,230
4	9/10/2019	5.80	2.54	28.04	326,460	11,640
5	9/10/2019	5.68	2.54	28.10	316,820	11,270
AVERAGE						11,460

ABSORPTION

UNIT NUMBER	AGE (DAYS)	SUSPENDED WT. (LBS)	S.S.D. WT. (LBS)	OVEN DRY WT. (LBS)	DENSITY WT. (LBS)	ABSORPTION %
6		3.45	5.86	5.68	147.1	3.2
7		3.37	5.75	5.55	145.5	3.6
8		3.47	5.88	5.68	147.1	3.5
9		3.42	5.81	5.62	146.7	3.4
10		3.44	5.84	5.64	146.6	3.5
AVERAGE					146.6	3.4

Compressive strength based on net area.

Test specimens capped with Hydrostone.

REMARKS: The samples tested meet ASTM C55 and C139 requirements for compressive strength and absorption. The density value obtained meets ASTM C55 normal weight classification.

REPORTED BY: Ryan Wilk

REVIEWED BY: Nick Atkins