

GEOTECHNICAL, ENVIRONMENTAL, AND **CONSTRUCTION MATERIALS CONSULTANTS**

REPORT OF LABORATORY **MASONRY TESTING**

ENGINEERING ASSOCIATES, INC.

N8 W22350 Johnson Drive, Suite A1 / Waukesha, WI 53186 (262) 544-0118 / FAX (262) 549-5868 / www.gilesengr.com

Project: County Materials-Lab Testing

Waukesha, WI

Client: **County Materials Corporation**

205 North Street PO Box 100

Marathon, WI 54448

Attention: Bob Goldman

Giles Project No.:

1M-1802003

Sample ID No.:

B-180806

Report Date: July 18, 2018

Sample Description: 70mm County Materials Pavers

W x H x L: 8-inch by 3-inch by 8-inch

Material:

Block Type: Concrete Interlocking Pavers

Weight Type: Normal weight

Manufacturer: County Materials Corp.-Janesville, WI

Sampled By: Client

Sampled from: plant stock

Source: Janesville

Date Made:

Specification: ASTM C936

Date Rec'd at Lab: 6/22/2018

DIMENSIONAL ANALYSIS. ASTM C 140

## ## ## ## ## ## ## ## ## ## ## ## ##										
BLOCK ID	DIMENSIONS, in WIDTH HEIGHT LENGTH			MINIMUM THICKNESS, in FACE SHELL WEB		WEB HT, in	ARE NET	A, in² GROSS	% SOLID	VOLUME, ft³ NET
180806A	7.7	2.8	7.7				59.3	59.4	99.9	0.10
180806B	7.7	2.8	7.7				58.5	59.1	99.0	0.09
180806C	7.7	2.8	7.7				58.4	59.3	98.6	0.10
AVERAGE	7.7	2.8	7.7				58.8	59.3	99.2	0.10

EQUIVALENT THICKNESS, in:

MAX. VARIANCE FROM SPECIFIED DIMENSIONS, in: 0.08

AVE NORMALIZED WEB AREA, in²/ft²:

AVE CELL SPACE, %:

SPECIFIED MAX VARIANCE, in: 0.125

TESTED BY: DTA

ABSORPTION ANALYSIS, ASTM C 140

BLOCK ID	RECEIVED	BLOCK WI	EIGHTS, lbs WET (24-HR)	OVEN DRY	DENSITY pcf	ABSORTION pcf %		TESTED BY
180806A	13.8	8.1	14.1	13.5	139.9	5.9	4.2	DTA
180806B	13.7	8.0	13.9	13.4	141.2	5.3	3.7	DTA
180806C	13.7	8.0	13.9	13.4	141.0	5.3	3.7	DTA
AVERAGE	13.8	8.0	14.0	13.4	140.7	5.5	3.9	
TEST SAMP	LE CONFIGURATI	ION	ABSORPTION	SPECIFICATIONS	INDIVIDUAL		7	
	full block		(MAXIM	UM LIMITS)	AVERAGE		5	

COMPRESSIVE STRENGTH ANALYSIS, ASTM C 140

	BLOCK ID	TEST DATE	TEST AGE	MAX. LOAD, lbs	AREA,			. STR., psi GROSS A		со	MMENTS	
L	180806D	7/13/2018		248420	29.7	59.4	8370		DTA	Nominal 4-in x 3-in	x 8-in coupon.	
	180806E	7/13/2018		245900	29.2	59.1	8410		DTA	Nominal 4-in x 3-in	x 8-in coupon.	
	180806F	7/17/2018		247600	29.7	59.3	8340		DTA	Nominal 4-in x 3-in	x 8-in coupon.	
	AVERAGE			247307	29.5		8373	n/a-cpn	SPEC	'D MIN. NET AREA	INDIVIDUAL	7200
-	Testing started on 7/5/2018 and ended on 7/13/2018.								СОМ	PR. STRENGTH, psi	AVERAGE	8000

Comments:

Thickness/Width aspect factor applied to compressive strength.

Reviewed by: Steven P. Homar, P.E.

GILES ENGINEERING ASSOCIATES, INC.

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Client:

County Materials Corp.

Address:

205 North Street

PO Box 100

Marathon, WI 54448

Report Date:

August 24, 2018

Project:

Freeze-thaw Testing

Project No.:

1M-1802003

Giles Lab No.:

B180806

Paver Freeze-Thaw Durability Test Method ASTM C1645-16

Manufactured by:

County Materials Corp.

Janesville, WI

Unit Description:

70mm Paver

Sampling Party:

County Materials Corp.

Specimen Dimensions (mm):

196 x 71 x 196

Total Surface Area by measurement

0.1325 square meter

Test Period:

July 27, 2018 - August 24, 2018

Test Media:

Water

Accumula Unit	tive Residue V	Veight (ne	earest 0.2 g.)	Mass Lost (grams/square meter)
No.	Cycle No.:	7	28	
1	_	0.00	1.00	7.39
2		0.00	0.80	5.43
3		0.00	0.80	6.03
	Ave.	0.00	0.87	6.28 Pass

Loss of mass of three full-size pavers shall not be greater than 225 grams/ square meter of total surface area of the individual paver after 28 cycles of freezing and thawing.

Test Specification ASTM C936-16

Reviewing Engineer: Steven P. Homar, P.E.