



Anchor Block Company
5959 Baker Road, Suite 390
Minnetonka, MN 55345-5996

main 952-933-8855
toll free 800-473-4452
fax 952-933-8833

ANCHORBLOCK.COM

REQUEST FOR APPROVAL

To: Anderson Engineering
Project: VA Minneapolis, MN VA Project
618-14-160
Design Upgrade of Building 222
02-26-16
Fort Snelling CD ISSUE
6330 Bloomington Road
St. Paul, MN 55111

SPECIFICATION SECTION NUMBER: 32 14 14 13
PARAGRAPH NUMBER: 2.1 Pavers
Borgert Holland Stone
Colors Chamois and Minnesota
SPECIFIED PRODUCT: River
Anchor Holland
Paver - Color:
PRODUCT APPROVAL AS Chambray Tan
EQUAL: and Fieldstone

- 1. Does the proposed substitution fail to satisfy, in any respect, characteristics specified for the original products(s)?
2. Does the substitution affect any dimensions shown on the drawing(s)?
3. Does the substitution affect any other trades?
4. Does the substitution affect schedule?
5. Does the substitution affect cost to the Owner?

If so, how much Add \$ Deduct \$

If "Yes" was indicated for any of the above items, attach a thorough explanation on your Company letterhead.



Anchor Block Company  
5959 Baker Road, Suite 390  
Minnetonka, MN 55345-5996

main 952-933-8855  
toll free 800-473-4452  
fax 952-933-8833

ANCHORBLOCK.COM

The undersigned states that the function, appearance and warranty of the proposed substitution is equivalent or superior to the specified item, unless otherwise noted, and that the information above and attached is true and correct.

Submitted by: Dale Buker

Position: Commercial Paver and Retaining Wall Sales

Company: Anchor Block Company

Address: 5959 Baker Road

City, State, Zip: Minnetonka, MN 55345

Date: April 28, 2016

Telephone: 612 508 9155

Signature: Dale Buker

*For Use By Architect:*

Accepted: \_\_\_\_\_

As Noted: \_\_\_\_\_

Not Accepted: \_\_\_\_\_

Received \_\_\_\_\_

Too Late: \_\_\_\_\_

By: \_\_\_\_\_

Date: \_\_\_\_\_

Remarks: \_\_\_\_\_

# HOLLAND

## APPLICATIONS

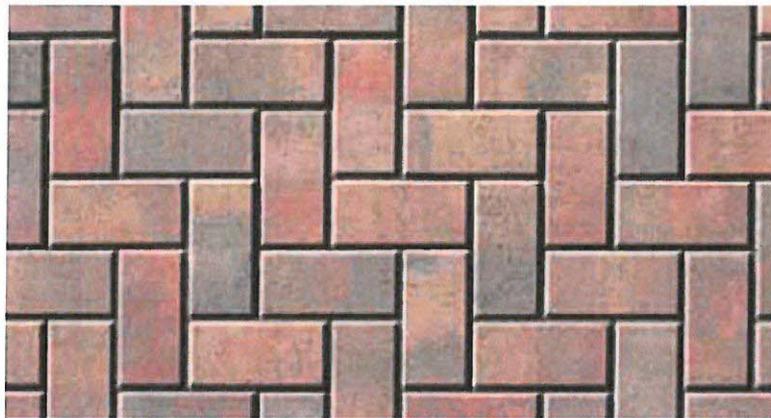


## SHAPES & SIZES

3 7/8 x 7 7/8 x 2 1/2



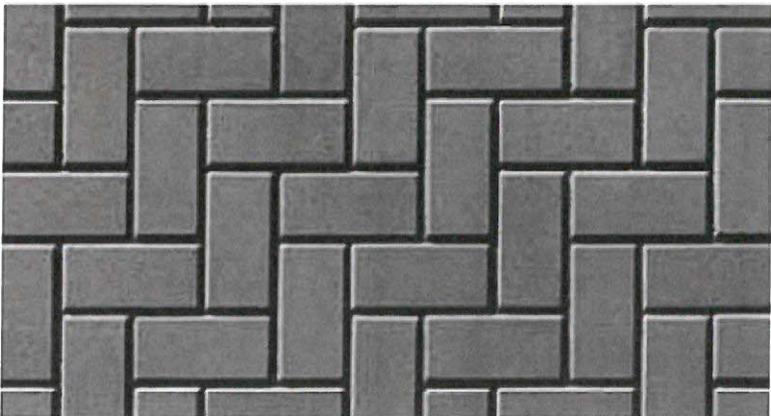
Holland  
Autumn Blend



Autumn Blend



Cambray Tan



Charcoal



Fieldstone



American Engineering Testing, Inc.  
 Saint Paul | Albertville  
 550 Cleveland Ave N | 5548 Barthel Ind Dr, Ste 500  
 St. Paul, MN 55114 | Albertville, MN 55301  
 (651)659-9001 | (763)428-5573  
 Toll Free: (800)972-6364  
 www.amengtest.com

# Masonry Test Report

**Report No: CU-20-12076-W1-M3**  
**Issue No: 1**

**Client:** ANCHOR BLOCK COMPANY      **CC:** SCOTT THEIS  
**Project:** 20-12076  
 PRODUCTION CHECK  
 SHAKOPEE, MN

This document shall not be reproduced, except in full, without written approval from American Engineering Testing, Inc.  
  
**Date of Issue:** 5/16/2014  
**Reviewed By:** JOHN HAUPT  
 Senior Engineer

Sample Details			
Sample ID:	20-12076-W1-M3	Set No.:	320-12076
Specification:	ASTM C 936	Type of Unit(s):	60 MM Holland Plus
Supplier:	ANCHOR BLOCK COMPANY	Source:	SHAKOPEE PLANT
Date Cast:	4/17/2014	Date Received:	5/6/2014
Days Left On Site:	19		
Sample Location:			

Average Test Results			
Compressive Strength (psi):	13650	Width (in):	3.84
Density (pcf):	143.5	Length (in):	7.81
Absorption (%):	4.9	Height (in):	2.36
Area (in <sup>2</sup> ):	30.00		

Dimensional and Absorption Analysis of Concrete Interlocking Paving Units									ASTM C 140
Specimen ID	Date Tested	Width (in)	Height (in)	Length (in)	Area (in <sup>2</sup> )	Received Weight (lb)	Absorption (%)	Density (pcf)	
320-12076\1	5/14/2014	27	3.9	2.4	7.8	30.07	5.9	4.7	143.6
320-12076\2	5/14/2014	27	3.8	2.4	7.8	29.84	6.0	4.9	143.7
320-12076\3	5/14/2014	27	3.9	2.3	7.8	30.09	5.8	5.0	143.1

Compression of Concrete Interlocking Paving Units										ASTM C 140
Specimen ID	Date Tested	Width (in)	Height (in)	Length (in)	Aspect Ratio	Aspect Ratio Factor	Ultimate Load (lbf)	Area (in <sup>2</sup> )	Compressive Strength (psi)	
320-12076\4	5/15/2014	28	3.9	2.4	7.8	0.613	1.00	437250	30.03	14560
320-12076\5	5/15/2014	28	3.9	2.4	7.8	0.618	1.01	379830	30.03	12770
320-12076\6	5/15/2014	28	3.8	2.3	7.8	0.607	0.99	411080	29.88	13620

Notes	Remarks
	Fracture Type: - = Not Defined The samples meet ASTM C936-13 specifications for Solid Concrete Interlocking Paving Units



CONSULTANTS  
· ENVIRONMENTAL  
· GEOTECHNICAL  
· MATERIALS  
· FORENSICS

**REPORT OF PAVER FREEZE-THAW TESTING**  
**ASTM C1645**

**PROJECT:**

MATERIAL EVALUATION  
PAVERS- 60mm HOLLAND PLUS  
3 % NaCl SOLUTION

**REPORTED TO:**

ANCHOR BLOCK COMPANY  
5959 BAKER ROAD  
SUITE 390  
MINNETONKA, MN 55345

**ATTN: SCOTT THEIS**

**AET JOB NO: 20-12076**

**DATE: JULY 1, 2014**

---

**SAMPLE INFORMATION**

**Product Type:**

PAVERS-60mm Holland Plus

**Date Received:**

May 7, 2014

**Test Method:**

ASTM C1645/C1645M-11 Standard Test Method for  
Freeze-thaw and De-icing Salt Durability of Solid  
Concrete Interlocking Paving Units

**Standard Reference:**

ASTM C936/C936M-13 Standard Specification for Solid  
Concrete Interlocking Paving Units

**CONFORMANCE**

The samples meet the 28 cycle freeze-thaw durability requirements of ASTM C936. A total of 28 cycles have been completed.

**PROCEDURES**

The samples were prepared and tested in accordance with ASTM C1645.

The samples were cleaned and de-burred prior to testing. The specimens were then placed bottom-down in containers with 3% Sodium Chloride solution added to submerge the samples. They were covered and placed in ambient air for 24 hours.

Following this absorption period the freeze-thaw cycling was begun. Each freeze-thaw cycle was 24 hours, with 16±1 hours for freezing and 8±1 hours for thawing. Minimum sample temperature requirements were -5±3°C (23±5°F) at the end of freezing, and 5°C (40°F) at the end of thawing.

Samples were rinsed and the loose material filtered and dried after 7 and 28 cycles. The samples pass if a single sample does not lose more than 225 grams per square meter after 28 cycles or 500 grams per square meter after 49 cycles. The surface areas of the pavers were determined according the sample dimensions.

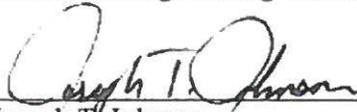
**ASTM C1645 TEST RESULTS**

Sample ID: 60mm Holland Plus	PAVER A	PAVER B	PAVER C	AVERAGE
	Dimensions: 97.8 mm by 198.1 mm by 59.7 mm, 0.074078 m <sup>2</sup>			ASTM C936
7 Cycles, grams lost	0.9	1.5	1.0	15.3
g/m <sup>2</sup>	12.1	20.2	13.5	
28 Cycles, grams lost	5.8	8.4	6.0	90.9
g/m <sup>2</sup>	78.3	113.4	81.0	

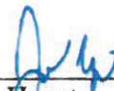
**REMARKS**

Testing was authorized by Mr. Scott Theis with Anchor Block Company on May 7, 2014. The samples will be retained for a period of 30 days from the date of the final report. Unless further instructions are received by that time, the samples will then be discarded. Test results represent specifically the samples tested. If you have any questions, please contact us at the numbers listed below.

Report Prepared By:  
American Engineering Testing, Inc.

  
\_\_\_\_\_  
Joseph T. Johnson  
Engineering Technician III  
[jtjohnson@amengtest.com](mailto:jtjohnson@amengtest.com)  
(651) 659-1354

Report Reviewed By:  
American Engineering Testing, Inc.

  
\_\_\_\_\_  
John J. Haupt  
Staff Engineer  
[jhaupt@amengtest.com](mailto:jhaupt@amengtest.com)  
(651) 603-6638