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TESTING OF
SURE CAVITY
DRAINAGE SYSTEM

Prepared for:
Masonry Technology Incorporated
Attn: Mr. John Koester
24235 Electric Street
P.O. Box 214
Cresco, IA 52136-9635

Prepared By:
William Stegeman
Project Manager
Product Evaluation Department
Phone: 651-659-7230

Reviewed By:
Steven R. Miller
Laboratory Supervisor
Product Evaluation Dept.

The test results contained in this report pertain only to the samples submitted for testing and not necessarily to all similar products.

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Stork Twin City Testing Corporation is an operating unit of Stork Materials Technology B.V., Amsterdam, The Netherlands, which is a member of the Stork Group.
TESTING OF SURE CAVITY DRAINAGE SYSTEM

INTRODUCTION:

This report presents the results of Drainage Efficiency tests conducted on samples of Sure Cavity Drainage System. The testing was authorized by Mr. John Koester of Masonry Technology Incorporated on May 15, 2006. The testing and data analysis were completed on July 13, 2006.

The scope of our work was limited to conducting Drainage Efficiency tests on the samples submitted and reporting the results.

SUMMARY OF RESULTS:

<table>
<thead>
<tr>
<th>Wall ID</th>
<th>Time to Stop Draining, hr</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>&gt;3:30</td>
<td>Wall did not drain but absorbed the water. After 3 ½ hours still wet as water bleeds through scratch coat</td>
</tr>
<tr>
<td>B</td>
<td>00:01:40</td>
<td>Dripping stopped and wall starting to dry</td>
</tr>
<tr>
<td>C</td>
<td>00:02:45</td>
<td>Dripping stopped and wall starting to dry</td>
</tr>
<tr>
<td>D</td>
<td>00:05:00</td>
<td>Dripping stopped and wall starting to dry</td>
</tr>
<tr>
<td>E</td>
<td>00:02:30</td>
<td>Dripping stopped and wall starting to dry</td>
</tr>
</tbody>
</table>

Dripping stopped is defined as less than one drop in 30 sec.

SAMPLE IDENTIFICATION:

The samples were identified as A through E. Construction details follow. Walls were assembled May 24-26, 2006.

WALL A Configuration, by layers
1. Plywood
2. “Double D” Paper
3. Metal Lath
4. Scratch Coat
5. ½” Vented Weep Screed

WALL B Configuration, by layers
1. Plywood
2. “Double D” Paper
3. 3/16” SURE CAVITY
4. Metal Lath.
5. Scratch Coat
6. ½” Vented Weep Screed
WALL C Configuration, by layers
1. Plywood
2. “Double D” Paper
3. 3/16” SURE CAVITY
4. WOW Weep
5. Brick Mold Detail
6. Metal lath
7. Scratch Coat

WALL D Configuration, by layers
1. Plywood
2. “Double D” Paper
3. 10mm SURE CAVITY
4. Metal lath
5. Scratch Coat
6. ½” Vented Weep Screed

WALL E Configuration, by layers
1. Plywood
2. “Double D” Paper
3. 10mm SURE CAVITY
4. Wow Weep
5. Brick Mold Detail
6. Metal Lath
7. Scratch Coat

TEST METHOD:
The samples were constructed and then allowed to cure at standard room temperature of 72 ± 5°F for at least 28 days prior to testing. Testing was done according to proposed ASTM Standard “Standard Test Method for Determining the Drainage Efficiency of an Interior Drainage System of an Exterior Wall when a Scratch Coat of Mortar is Placed Against the Drainage System During the Construction Phase”. Funnel cavity volume was determined to be 2.344 gallons and therefore the amount of water to use (3/4 of funnel volume) was 6.65Kg.

CALIBRATED TEST EQUIPMENT:
Sartorius Balance, model CISLI-U, ID PT 161-012, calibrated 3/06
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WALL C
Test 7-3-2006
Elapsed Time Observations
0:10  Water dripping from weep holes in bottom of wall.
0:37  Trough empty.
2:45  Done dripping. No moisture observed in observation holes in back of wall.
15:00 5566g of water collected, ¼ cup missed collection pan.

WALL D
Test 7-3-2006
Elapsed Time Observations
0:03  Water dripping from weep holes in bottom of wall.
0:07  Trough empty.
5:00  Done dripping. No moisture observed in observation holes in back of wall.
15:00 5915g of water collected.

WALL E
Test 7-3-2006
Elapsed Time Observations
0:02  Water dripping from weep holes in bottom of wall.
0:20  Trough empty.
2:30  Done dripping. No moisture observed in observation holes in back of wall.
15:00 5995g of water collected, just a negligible amount missed the collection tray.

PHOTOS:

Double D Paper

Base Wall Unit
PHOTOS Continued:

Wall A with Paper and trough

Wall A with Metal Lathe

Spacers

Spacers in Trough between paper and metal lathe
PHOTOS Continued:

Sure Cavity Wall

Application of Scratch Coat

Wall A first test

Water running along outside edge of Wall A on first test
PHOTOS Continued:

Water running from back weep hole of Wall A

Wall A mid test

Top Trough view

Water dripping into collection pan
PHOTOS Continued:

Sure Cavity Wall

Wall A

REMARKS:

The test materials not consumed in testing will be retained for 14 days from the date of this report and then discarded unless we receive written notification requesting otherwise.