TEST REPORT
FOR
PROFLEX PRODUCTS, INC.
2500 Drane Field Road
Suite #105
Lakeland, FL 33811

Surface Burning Characteristics of Building Materials
ASTM E-84-11a

Test Report No: FH-2332-1-2
Assignment No: H-915
Test Date: 09/20/2012
Report Date: 09/24/2012

Subject Material: Porcelain tile with polymer modified sanded grout adhered to Proflex MSC 90 underlayment
Porcelain tile with polymer modified sanded grout adhered to Proflex RCU 250 underlayment

Prepared by: _______________________
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Reviewed by: _______________________
Robert J. Menchetti
Director, Laboratory Facilities and Testing Services

The results reported in this document apply to specific samples submitted for measurement.
No responsibility is assumed for performance of any other specimen.
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MATERIAL TESTED:

Material submitted by Proflex Products, Inc. of Lakeland, FL, was described by the client as:

Composite Sample No. 1: Porcelain Tile
Polymer Modified Sanded Grout
ANSI 118.11 Thin Set Adhesive
Proflex MSC 90 Underlayment – 0.090” Thick
Hardy Cement Backer Board

Composite Sample No. 2: Porcelain Tile
Polymer Modified Sanded Grout
ANSI 118.11 Thin Set Adhesive
Proflex RCU 250 Underlayment – 0.250” Thick
Moisture Cured PU Adhesive
Hardy Cement Backer Board

Each composite sample was submitted in (6) 2 ft. wide x 4 ft. long panels, assembled in the order as listed above. The porcelain tile side was exposed to the fire.

METHOD OF SUPPORT:

The specimen panels were placed end to end, and butted tightly together, to achieve the required 24 ft. length. No additional support was required.

LID PROTECTION:

1/4 in. thick non-combustible fiber reinforced cement board was placed over the specimen as lid protection.

RESULTS:

The results can be found on page 3 of this report.
### RESULTS:

<table>
<thead>
<tr>
<th>TEST NO</th>
<th>MATERIAL TESTED</th>
<th>SIDE EXPOSED</th>
<th>SUPPORT</th>
<th>CALCULATED FLAME SPREAD</th>
<th>CALCULATED SMOKE DEVELOPED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Composite Sample No. 2</td>
<td>TILE</td>
<td>SELF</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>2</td>
<td>Composite Sample No. 1</td>
<td>TILE</td>
<td>SELF</td>
<td>0.00</td>
<td>0.81</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MATERIAL TESTED</th>
<th>SIDE EXPOSED</th>
<th>SUPPORT</th>
<th>FLAME SPREAD INDEX *</th>
<th>SMOKE DEVELOPED INDEX *</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED OAK FLOORING</td>
<td>NA</td>
<td>DECKS</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>REINFORCED CEMENT BOARD</td>
<td>NA</td>
<td>SELF</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

1. Composite Sample No. 2
2. Composite Sample No. 1

* Flame Spread/Smoke Developed Index is the result (or average of the results of multiple tests), rounded to the nearest multiple of 5. Smoke Developed in excess of 200, rounded to the nearest 50.

### CLASSIFICATION

- **CLASS "A"**: FSI < 25, SDI < 450
- **CLASS "B"**: 26 - 75, 0 - 450
- **CLASS "C"**: 76 - 200, 0 - 450
Fire Testing Laboratory

TEST#: FH-2332-1, DATE: 9/20/2012

TEST METHOD: ASTM-E84-11a

CLIENT: Proflex Products, Inc.

PROJECT#: H-915

SAMPLE: Sample No. 2

MATERIAL: (6) 2' x 4' panels

SUPPORT: Wire & Rods

REMARKS:
- Ignition Time: 0.00
- Max Flame Front: 0.00 FT. @ 10:00

ADC DRAFT (IN. H2O) 0.080
GAS PRESS. (IN. H2O) 0.289
GAS VOL (CF) 50.25
BTU/CF 998
SHUTTER (IN.) 3.00
TEMP. 13' BURIED 105 F

Flame Spread:
- Area under Flame Curve (ft-min): 0.00

Smoke Developed:
- Area under Smoke Curve (%A-min): 0.00
Fire Testing Laboratory

TEST#: FH-2332-2       DATE: 9/20/2012

TEST METHOD: ASTM-E84-11a

CLIENT: Proflex Products, Inc.

PROJECT#: H-915

SAMPLE: Sample No. 1

MATERIAL: (6) 2' x 4' panels

SUPPORT: Wire & Rods

REMARKS:
Ignition Time: 0:00
Max Flame Front: 0.00 FT. @ 0:00

Flame Spread: 0.00
Area under Flame Curve (ft-min): 0.00

Smoke Developed: 0.81
Area under Smoke Curve (%A-min): 0.41

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