

**REPORT NUMBER: 100090914MID-016**  
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**EVALUATION CENTER**

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Middleton, WI 53562

**RENDERED TO**

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PRODUCT EVALUATED:  
8mm VIVIX Panel

EVALUATION PROPERTY:  
ASTM D1037-06a: *Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials with AC92: Acceptance Criteria For Polymer-Based And Polymer-Modified Exterior And Interior Wall Cladding*

**Report of Testing 8mm VIVIX Panel for compliance with the applicable requirements of the following criteria: ASTM D1037-06a: *Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials with AC92: Acceptance Criteria For Polymer-Based And Polymer-Modified Exterior And Interior Wall Cladding* using the following standard test method:**

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## 2 Introduction

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Intertek has conducted testing for Formica Group North America, on 8mm VIVIX Panel, to evaluate the flexural strength. Testing was conducted following the standard method of ASTM D1037-06a: *Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials*. This evaluation began August, 2009 and was completed September 8, 2009.

## 3 Test Samples

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### 3.1. SAMPLE SELECTION

Sampling conducted by Intertek Representative Mike Plus on May 27, 2010. Samples were received at the Middleton Evaluation Center on June 9, 2010. The Grey untraceable sample was submitted directly from the client. The sample was received at the Middleton Evaluation Center on May 30, 2010.

### 3.2. SAMPLE AND ASSEMBLY DESCRIPTION

VIVIX by Formica Group Solid Phenolic Engineered Façade Panels is an open joint exterior solid phenolic panel system. The panels are High-pressure decorative laminates (HPL) consisting of a core material made up of craft paper and resin and the exterior faces consist of melamine and resin. The VIVIX panels are manufactured in 8mm, 10mm or 12mm nominal thicknesses for installation on exterior and interior building surfaces. The panels can be mounted with visible or concealed fasteners on extruded Aluminum mounting brackets/clips.

The panels are manufactured in three thicknesses – 5/16" (8 mm), 3/8" (10 mm) and 1/2" (12 mm) nominal.

The sample thickness tested was the 8mm black and grey.

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## 5 Testing and Evaluation Results

### 5.1. RESULTS AND OBSERVATIONS

FLEXURAL TEST SUMMARY						
Specimen Black	Average MoR (psi)	% Change	60% of Avg. MoR (psi)	90% of Avg. MoR (psi)	Requirement	Pass/Fail
Baseline, Dry CD	19456		11673	17510		N/A
Baseline, Wet CD	23159	19.04%	13896	20844		Pass
Baseline, Freeze Thaw CD	21401	10.00%	12841	19261		Pass

CD = Cross Direction

FLEXURAL TEST SUMMARY						
Specimen Black	Average MoR (psi)	% Change	60% of Avg. MoR (psi)	90% of Avg. MoR (psi)	Requirement	Pass/Fail
Baseline, Dry MD	19796		11878	17816		N/A
Baseline, Wet MD	23129	16.84%	13878	20816		Pass
Baseline, Freeze Thaw MD	19514	-1.43%	11708	17562		Pass

MD = Machine Direction

FLEXURAL TEST SUMMARY						
Specimen Grey	Average MoR (psi)	% Change	60% of Avg. MoR (psi)	90% of Avg. MoR (psi)	Requirement	Pass/Fail
Baseline, Grey Dry MD	19874		11924	17887		Pass
Baseline, Grey Dry CD	29292		17575	26363		Pass

MD = Machine Direction  
CD = Cross Direction

#### 5.1.1. Statement of Measurement Uncertainty

- Intertek asset # 870, Instron Model 5582, calibrated December 30, 2010 and due for calibration on December 30, 2011. The laboratory estimates a measurement uncertainty of 0.00011 in/min at 0.2 in/min, k = 2, and a measurement uncertainty of 0.0014" at 1.4" of displacement, k = 3.18. Measurement uncertainty is based on a combined uncertainty multiplied by a coverage factor k to provide a confidence of approximately 95%.