

# TEST REPORT



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## EVALUATION CENTER

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## RENDERED TO

VERTEX FLOORS LIMITED  
Sheng Gao International Mansion Building 9F, No. 137 Xian Xia Road,  
Shanghai 200051

PRODUCT EVALUATED:  
PVC Flooring

EVALUATION PROPERTY:  
Comparison Tests

**Report of Comparison Testing PVC Performance according to  
the specified test methods:  
Indicated them in “4 Testing and Evaluation Methods”**

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## 2 Introduction

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Intertek Guangzhou had conducted testing for VERTEX FLOORS LIMITED on PVC Flooring, to test 3 models performance difference of Bond strength test, High Temperature/Humidity Test, Low Temperature/Humidity Test. Testing was conducted in accordance with client's requirements and using specified methods as guide. This test began on March 17, 2008 and was completed on March 30, 2008.

## 3 Test Samples

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### 3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the applicant and manufactured by Zhangjiagang Elegant Plastics Co., Ltd, located at Hexing Street, Jinfeng Town, Zhangjiagang City, Jiangsu Province, China. Samples were received at the Evaluation Center on March 17, 2008.

### 3.2. SAMPLE AND ASSEMBLY DESCRIPTION

Model No.	Product description
Golden Maple (XF)	Overall size: 6"X36"X3.8mm The wear layer: thickness 0.1mm
Red Oak (THD)	Overall size: 6"X36"X3.8mm The wear layer: thickness 0.1mm
Golden Maple (Malaysia)	Overall size: 6"X36"X3.8mm The wear layer: thickness 0.1mm

## 4 Testing and Evaluation Methods

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### 4.1. CONDITIONING

Before testing, all samples were kept in normal laboratory condition for more than 24 hours and constant mass already reached.

### 4.2. SPECIMEN PREPARATION

All the specimens were cut into size 3"X6", the sides 6" were parallel to the product length direction.

### 4.3. TEST STANDARD 1 (Specified method)

Bond strength test: Use wedges between the jaws and the test piece to ensure that the direction of tensile stress exerted is parallel to the surface of the test piece. Apply the force and increase it by moving the jaws at a constant speed of (100±5) mm/min until complete separation has occurred. Record the average force which pulls the two layers out along 6" direction. The more was the better.

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**4.4. TEST STANDARD 2(Specified method)**

High Temperature/Humidity Testing: Set the test condition to achieve the temperature 40° C and the humidity 95% and run for 24 hours, Note changes in appearance after flooring is subjected to 24 hours at 40° C and 95% RH. Retest the test standard 1.

**4.5. TEST STANDARD 3(Specified method)**

Low Temperature/Humidity Testing: Set the test condition to achieve the temperature 5° C and the humidity 20% and run for 24 hours, Note changes in appearance after flooring is subjected to 24 hours at 5° C and 20% RH. Retest the test standard 1.

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## 5 Testing and Evaluation Results

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### 5.1. RESULTS AND OBSERVATIONS

Item	Result - Remark		
Bond strength test	For Golden Maple(XF), Average force: 88 N	For Red Oak(THD), Average force: 77 N	For Golden Maple(Malaysia), Average force: 82 N
High Temperature/Humidity Testing	For Golden Maple(XF), No obvious changes in appearance, see the Appendix B. Average force: 83 N	For Red Oak(THD), No obvious changes in appearance, see the Appendix B. Average force: 76 N	For Golden Maple(Malaysia), No obvious changes in appearance, see the Appendix B. Average force: 78 N
Low Temperature/Humidity Testing	For Golden Maple(XF), No obvious changes in appearance, see the Appendix B. Average force: 97 N	For Red Oak(THD), No obvious changes in appearance, see the Appendix B. Average force: 81N	For Golden Maple(Malaysia), No obvious changes in appearance, see the Appendix B. Average force: 83 N

### 5.2. EXAMINATION OF RESULTS

Unless otherwise stated in the report, all portions of each test were performed under continuous, direct supervision of the representative of Intertek Guangzhou.

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## 6 Conclusion

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Refer to above results and observations.

### INTERTEK GUANGZHOU

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**Appendix A**  
**Product photos**



### Appendix B

#### Photos of Specimen after being tested

