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EVALUATION CENTER

Intertek Testing Services Ltd., Shanghai Jinqiao Branch
Building T52-8, No. 1201 Gui Qiao Road,
Jinqiao Development Area, Pudong District
Shanghai 201206

RENDERED TO

Shangyu Jindalai Leather Carving Co., Ltd
3rd Floor, Annex Building of Zhejiang AMP Masion, Taian Road,
Binjiang District, Hangzhou, Zhejiang, China

SAMPLE EVALUATED:

Leather Wall Panel,
Model No. DP2003-9#

EVALUATION PROPERTY

Reaction to Fire

**Report of Leather Wall Panel for compliance with the applicable requirements of the following criteria:
EN 13501-1: 2007+A1:2009**

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1 Table of Contents

| | | |
|--------|---|---|
| 1 | Table of Contents..... | 2 |
| 2 | Introduction..... | 3 |
| 3 | Test Samples..... | 3 |
| 3.1. | Sample Selection..... | 3 |
| 3.2. | Sample and Assembly Description..... | 3 |
| 4 | Testing and Evaluation Methods..... | 4 |
| 4.1. | Ignitability Test..... | 4 |
| 4.2. | Single Burning Item Test..... | 4 |
| 4.3. | Classification Criteria..... | 4 |
| 5 | Testing and Evaluation Results..... | 5 |
| 5.1. | Results and Observations..... | 5 |
| 5.1.1. | Statement of Measurement Uncertainty..... | 5 |
| 5.2. | Classification..... | 5 |
| 6 | Conclusion..... | 6 |
| 7 | Appendix A: Sample Photograph..... | 7 |
| 8 | Revision Page..... | 8 |

2 Introduction

Intertek Testing Services has conducted testing for Shangyu Jindalai Leather Carving Co., Ltd on Leather Wall Panel, to evaluate reaction to fire. The testing was conducted at the external approved facility. The classification was in accordance with the procedures given in EN 13501-1: 2002+A1: 2009. This evaluation began on October 9, 2011 and was completed on October 13, 2011.

3 Test Samples

3.1. SAMPLE SELECTION

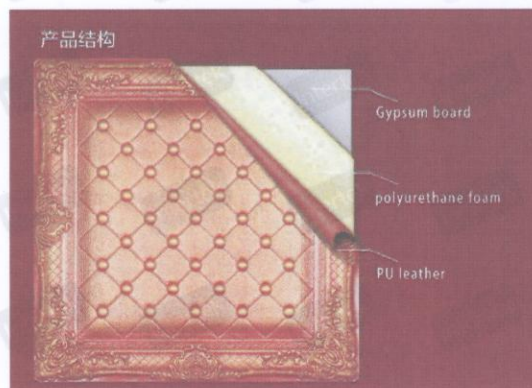
Samples were submitted to Intertek directly from the client. Samples were not independently selected for testing. Samples were received at the Evaluation Center on September 27, 2011.

3.2. SAMPLE AND ASSEMBLY DESCRIPTION

The samples were identified as Leather Wall Panel, Model No. DP2003-9# and photographs were presented in Appendix A.

The drawing and description of the samples given below has been provided by the sponsor of the test.

| | |
|-------------------|--------|
| PU leather | 0.7 mm |
| Polyurethane foam | 15 mm |



4 Testing and Evaluation Methods

4.1. IGNITABILITY TEST

The test was conducted in accordance with EN ISO 11925-2. The test evaluates the ignitability of a product under exposure to a small flame.

4.2. SINGLE BURNING ITEM TEST

The test was conducted in accordance with EN 13823. This test evaluates the potential contribution of a product to the development of a fire, under a fire situation simulating a single burning item near to the product.

4.3. CLASSIFICATION CRITERIA

The classification was determined in accordance with EN 13501-1: 2002+A1: 2009. The classes D with their corresponding fire performance are given in the table below.

Table- Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

| Class | Test Method(s) | Classification criteria | Additional classifications |
|-------|---|--------------------------------------|---|
| D | EN 13823 and | FIGRA \leq 750 W/s and | Smoke production ^b and |
| | EN ISO 11925-2 ^a : Exposure=30s | F _s \leq 150mm with 60s | Flaming droplets/particles ^c |

Note:

- a. Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.
- b. In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.
s1 = SMOGRA \leq 30m²/s² and TSP_{600s} \leq 50m²; s2 = SMOGRA \leq 180m²/s² and TSP_{600s} \leq 200m²; s3 = not s1 or s2
- c. d0 = no flaming droplets/ particles in EN 13823 within 600 s;
d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600s;
d2 = not d0 or d1.

Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

5 Testing and Evaluation Results

5.1. RESULTS AND OBSERVATIONS

The test results were shown in Table below.

| Method | Parameter | Result |
|---------------------------------|--|---|
| EN 13823 | FIGRA , W/s | 287 |
| | SMOGRA, m ² /s ² | 600 |
| | TSP _{600s} , m ² | 226 |
| | Flaming Droplets/ Particles | no flaming droplets/ particles within 600s |
| EN ISO 11925-2: Exposure=30s | Fs, mm | Edge: 61 Surface: 56 |

5.1.1. Statement of Measurement Uncertainty

When determining the test result, measurement uncertainty has been considered.

5.2. CLASSIFICATION

The classification has been carried out in accordance with EN 13501-1.

| Product | Fire behaviour | Smoke production | | | Flaming Droplets | |
|--------------------|----------------|------------------|---|---|------------------|-----|
| Leather Wall Panel | D | - | s | 3 | - | d 0 |

Reaction to fire classification: *D-s3-d0*

6 Conclusion

The product identified and evaluated in this report has been tested in accordance with EN 13501-1: 2007+A1:2009. The results are presented in Section 5 of this test report and the classification of the sample is as below.

Reaction to fire classification: *D-s3-d0*

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

INTERTEK

Harrison

Reported by: _____

Harrison Li
Project Engineer, Building Products

Sun Sun

Reviewed by: _____

Sun Sun
Technical Supervisor, Building Products

7 Appendix A: Sample Photograph



Before SBI Test



After SBI Test

8 Revision Page

| Revision No. | Date | Changes | Author | Reviewer |
|--------------|------------------|-------------|-------------|----------|
| 0 | November 2, 2011 | First issue | Harrison Li | Sun Sun |
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