ENGINEERING EVALUATION

REPORT NUMBER:130315001SHJ-BP-7
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EVALUATION CENTER
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RENDERED TO

HUIDONG MEIXIN PLASTIC LUMBER PRODUCTS MANUFACTURING CO., LTD
NGA INDUSTRIAL PARK, DALING, HUIDONG, GUANGDONG PROVINCE, PRC

PRODUCT EVALUATED:

UltraShield Composite Decking

EVALUATION PROPERTY

Slip resistance

Engineering Evaluation of UltraShield Renaissance Composite Decking for compliance with the applicable requirements of the relative criteria.

1 Table of Contents

2 Introduction

Intertek is conducting an engineering evaluation for HUIDONG MEIXIN PLASTIC LUMBER PRODUCTS MANUFACTURING CO., LTD. on UltraShield Composite Decking to evaluate physical properties. The evaluation is conducted to summarize the properties from the reports conducted by Intertek before. The evaluation began March 12, 2013 and was completed March 15, 2013.

3 Product Description

Samples were submitted to Intertek directly from the client. Samples were not independently selected for testing.
The photographs of received samples were presented in Appendix A.

Product Description	Model
UltraShield Composite Decking	UH02

4 Reference Documents

As part of this evaluation, Intertek has directly used the following reference documents.

Reference report
Report No. GZ12060103-2 Issued on June 25, 2012 by Intertek Testing Services Ltd., Shenzhen Ltd. Guangzhou Branch

5 Evaluation Result

The properties listed in the tables below come from the reports issued by Intertek before. Detailed information should be referred to initial reports.

Type	Standard	Character	Result	Report
UH02	DIN 51130	Floor slip resistance	Mean overall acceptance angle: 19.7° Group R11	GZ12060103-2

Note:

1. Group R11: corrected mean overall acceptance angle over 19° to 27°.

6 Evaluation Method

6.1. DETERMINATION OF FLOOR SLIPPERINESS

The temperature in the test area and the temperature of the shoe, lubricant and test surface shall be (23 ± 5) ℃.

The test was conducted in accordance with DIN 51130-2010. Before testing starts, (200±1) ml of the lubricant shall be evenly spread over the surface of the test finishing using a paintbrush. The outsole of the shoe shall be moistened with the same lubricant using the paintbrush, at approximately the same spread rate.

The test person shall proceed with an upright posture facing downwards taking steps, half a shoe length, forwards and backwards on the test finishing. The pitch of the test finishing is increased from the horizontal at a rate of around 1°/s.The angle of inclination at which the person reaches the threshold of safe walking (acceptance angle) is obtain by repeated travel up and down around the critical range. The acceptance angle of the test finishing is determined three times, each time starting from the horizontal. In each case, before the second and third measurements the lubricant in once again spread evenly over the surface using the paintbrush. The walking operation shall be carried out by two test persons.

Slip resistance assessment group:

Table 1
Assignment of corrected mean overall acceptance angles to slip resistance assessment

Corrected mean overall acceptance angle	Slip resistance assessment group
6° to 10°	R9
Over 10° to 19°	R10
Over 19° to 27°	R11
Over 27° to 35°	R12
Over 35°	R13

7 Conclusion

Intertek has conducted an engineering evaluation for HUIDONG MEIXIN PLASTIC LUMBER PRODUCTS MANUFACTURING CO., LTD on UltraShield Composite Decking to evaluate physical properties. The evaluation was based on the existed test reports issued before.

Based on the information contained and referenced herein, the physical properties have been summarized and presented in section 5 of this report.

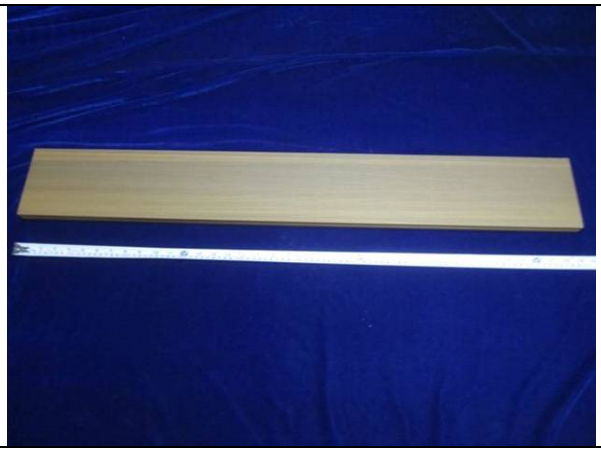
The conclusions of this engineer evaluation may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

INTERTEK

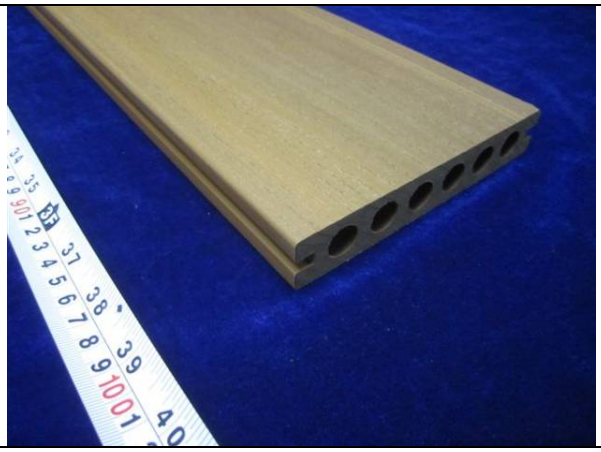
Reported by: _____

Jodie Zhou
Technical Supervisor, Building Products

8 Appendix A: Photos



Front view of UH02 (tested surface)



Section view of UH02

9 Revision Page

Revision No.	Date	Changes	Author
0	March 20, 2013	First issue	Jodie Zhou

END OF DOCUMENT