

## TEST REPORT

No. : XMCCM150100007

Date : Jan.04, 2015

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QINGDAO BAREFOOT CONSTRUCTION MATERIAL CO., LTD  
NO.6 CHANGCHENG SOUTH ROAD, CHENGYANG DISTRICT, QINGDAO, SHANDONG PROVINCE,  
CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : WPC PLANK  
SGS Ref. No. : QDHG 201404431, QDHG 201404303, QDHG 201404429, QDHG  
201404430  
Test required : Selected test(s) as requested by applicant  
Date of Receipt : Nov.25, 2014  
Test Period : Nov.25, 2014 to Dec.30, 2014  
Test result(s) : For further details, please refer to the following page(s)

\*\*\*\*\* To be continued\*\*\*\*\*



Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd. XM Branch Testing Center

Civi Huang  
Authorized Signatory



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**Summary of test results:(Average value)**

| Test items                              | Test methods                                    | Test results   | GB/T 24508-2009 Requirement in standard for Element face wood plastic floor                          | Conclusion                  |      |
|---|---|--|--|-----------------------------|------|
| Bending strength                        | GB/T 24508-2009 6.5.2<br>GB/T 17657-1999 4.9.4  | 4275 N   | Use in public place $\geq$ 2200 N  | Pass                        |      |
| Impact resistance in normal temperature | GB/T 24508-2009 6.5.3<br>GB/T 18102-2007 6.3.16 | 8.57 mm  | $\leq$ 12 mm   | Pass                        |      |
| Impact resistance in low temperature    | GB/T 24508-2009 6.5.6                           | No break   | No break   | Pass                        |      |
| Density                                 | GB/T 24508-2009 6.5.4<br>GB/T 17657-1999 4.2    | 1.33 g/cm <sup>3</sup>   | $\geq$ 0.85 g/cm <sup>3</sup>  | Pass                        |      |
| Water absorption                        | GB/T 24508-2009 6.5.5<br>GB/T 17657-1999 4.6    | 0.83 %   | $\leq$ 3.0%<br>(base material no foaming)  | Pass                        |      |
| Sizes change after water absorption     | GB/T 24508-2009 6.5.7                           | Length direction: 0.04 %<br>Width direction: 0.03 %<br>Thickness direction: 0.22 % | Length direction: $\leq$ 0.3 %<br>Width direction: $\leq$ 0.4 %<br>Thickness direction: $\leq$ 0.5 % | Pass                        |      |
| Cold and thermal cycling                | GB/T 24508-2009 6.5.9                           | No cracking or bubbling<br>Size change: 0.04 mm                                    | No chap, No bubble<br>Size change: $\leq$ 0.5mm  | Pass                        |      |
| Formaldehyde                            | GB/T 24508-2009 6.5.21<br>GB 18580-2001 6.3     | ND   | E <sub>0</sub> $\leq$ 0.5 mg/L<br>E <sub>1</sub> $\leq$ 1.5 mg/L                                     | Pass                        |      |
| Soluble Heavy Metal of Substrate        | GB/T 24508-2009 6.5.23<br>GB 18586-2001         | Soluble Lead   | 12 mg/m <sup>2</sup>   | $\leq$ 20 mg/m <sup>2</sup> | Pass |
|   |   | Soluble Cadmium  | ND   | $\leq$ 20 mg/m <sup>2</sup> | Pass |
| Volatile Matter                         | GB/T 24508-2009 6.5.25<br>GB 18586-2001         | 7.4 g/m <sup>2</sup>   | $\leq$ 40 g/m <sup>2</sup>   | Pass                        |      |
| Slip resistance                         | GB/T 24508-2009 Section 6.5.16                  | 36   | $\geq$ 35  | Pass                        |      |
| Colour fastness resistance              | GB/T 24508-2009 Section 6.5.20                  | > Class 4  | $\geq$ Class 4   | Pass                        |      |
|   | GB/T 15102-2006 Section 6.5.19                  |  |  |                             |      |

Note: Impact resistance in low temperature, cold and thermal cycling, formaldehyde and soluble heavy metal of substrate were carried out by a SGS internal laboratory.

\*\*\*\*\* To be continued\*\*\*\*\*



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General Services Department Laboratory

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### 1. Bending strength

#### Test Method:

GB/T 24508-2009 6.5.2 wood-plastic flooring- Bending strength

GB/T 17657-1999 4.9 Test methods of evaluating the properties of wood-based panels and surface decorated wood-based panels - Determination of modulus of elasticity in bending and of bending strength

Specimens: WPC, 400mm×148mm×25mm, 3pcs

Loading rate: 9.1 mm/min

Span: 350 mm

#### Test Result:

| Specimens identification No. | 1    | 2    | 3    |
|------------------------------|------|------|------|
| Bending strength (N)         | 4287 | 4332 | 4205 |
| Mean value (N)               | 4275 |      |      |

### 2. Impact resistance in normal temperature

#### Test Method:

GB/T 24508-2009 6.5.3 wood-plastic flooring- Impact resistance in normal temperature

GB/T 18102-2007 6.3.16 Laminate flooring- Impact resistance

Specimens: WPC, 300mm×148mm×25mm, 3pcs

Falling height: 1.75 m

#### Test Result:

| Specimens identification No. | 1    | 2    | 3    |
|------------------------------|------|------|------|
| Diameter of pit(mm)          | 8.56 | 8.51 | 8.64 |
| Mean value (mm)              | 8.57 |      |      |

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### 3. Impact resistance in low temperature

#### **Test Method:**

GB/T 24508-2009 6.5.6 wood-plastic flooring- Impact resistance in low temperature

Specimens: WPC, 300mm×148mm×25mm, 3pcs

Condition:

-10°C, 2h→Finish test in 10 s

Weight of steel ball: 800 g

Diameter of steel ball: 50 mm

Falling height: 1000 mm

Span: 200 mm

#### **Test Result:**

After testing, there is no break for the specimens.

### 4. Density

#### **Test Method:**

GB/T 24508-2009 6.5.4 Wood-plastic flooring- Density

GB/T 17657-1999 4.9 Test methods of evaluating the properties of wood-based panels and surface decorated wood-based panels - Determination of density

Specimens: WPC, 80mm×50mm×25mm, 3pcs

#### **Test Result:**

| Specimens identification No.    | 1    | 2    | 3    |
|---------------------------------|------|------|------|
| Density (g/cm <sup>3</sup> )    | 1.36 | 1.30 | 1.32 |
| Mean value (g/cm <sup>3</sup> ) | 1.33 |      |      |

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### 5. Water absorption

#### **Test Method:**

GB/T 24508-2009 6.5.5 Wood-plastic flooring- Water absorption

GB/T 17657-1999 4.9 Test methods of evaluating the properties of wood-based panels and surface decorated wood-based panels - Determination of water absorption

Specimens: WPC, 80mm×50mm×25mm, 3pcs

#### **Test Result:**

| Specimens identification No. | 1    | 2    | 3    |
|------------------------------|------|------|------|
| Water absorption (%)         | 0.82 | 0.81 | 0.85 |
| Mean value (%)               | 0.83 |      |      |

### 6. Sizes change after water absorption

#### **Test Method:**

GB/T 24508-2009 6.5.7 wood-plastic flooring- Sizes change after water absorption

Specimens: WPC, 148mm×100mm×25mm, 3pcs

Soak time: 24 hours

#### **Test Result:**

| Specimens identification No. | 1    | 2    | 3    |
|------------------------------|------|------|------|
| Length change (%)            | 0.03 | 0.05 | 0.03 |
| Mean value (%)               | 0.04 |      |      |
| Width change (%)             | 0.02 | 0.05 | 0.02 |
| Mean value (%)               | 0.03 |      |      |
| Thickness change (%)         | 0.23 | 0.22 | 0.21 |
| Mean value (%)               | 0.22 |      |      |

\*\*\*\*\* To be continued\*\*\*\*\*



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### 7. Cold and thermal cycling

#### Test Method:

GB/T 24508-2009 6.5.9 wood-plastic flooring - Cold and thermal cycling

Specimens: WPC, 183mm×148mm×25mm, 3pcs

#### Test Result:

Condition:

a.23±2 °C, 1 h

b.-29±2 °C, 6 h

c.23±2 °C, 1 h

d.52±2 °C, 16 h

a~d as 1 cycle, total 3 cycles→ 23±2 °C, 6 h

Number of specimens tested: 2

Lab Environmental Condition: 23±2 °C, 50±5 % RH

Test Result:

| Test Item          | Test Result             | Requirement in GB/T 24508-2009 | Conclusion |
|--------------------|-------------------------|--------------------------------|------------|
| Appearance         | No cracking or bubbling | No cracking or bubbling        | Pass       |
| Dimensional Change | -0.04 mm                | ≤0.5 mm                        | Pass       |

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### 8. Formaldehyde

#### **Test Method:**

With reference to GB/T 24508-2009& GB 18580-2001 Section 6.3, Analysis was performed by UV-Vis.

GB/T 24508-2009 6.5.21 Wood-plastic flooring- Formaldehyde

GB/T 18580-2001 6.3 Indoor decorating and refurbishing materials – limit of formaldehyde emission of wood-based panels and finishing products

Specimens: WPC, 300mm×150mm×25mm, 1pcs

#### **Test Result:**

| Test Item                     | Unit | MDL | 001 |
|-------------------------------|------|-----|-----|
| Formaldehyde Emission Content | mg/L | 0.2 | ND  |

#### Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) \*- = Not Regulated

### 9. Soluble Heavy Metal of Substrate

#### **Test Method:**

With reference to GB/T 24508-2009&GB 18586-2001, Analysis was performed by ICP OES

GB/T 24508-2009 6.5.23Wood-plastic flooring- Soluble Heavy Metal of Substrate

GB/T 18586-2001 Indoor decorating and refurbishing materials – limit of harmful substances of polyvinyl chloride floor coverings

Specimens: WPC, 10mm×10mm×2mm, 20pcs

#### **Test Result:**

| Test Item            | Unit              | MDL | 001 |
|----------------------|-------------------|-----|-----|
| Soluble Lead (Pb)    | mg/m <sup>2</sup> | 2   | 12  |
| Soluble Cadmium (Cd) | mg/m <sup>2</sup> | 2   | ND  |

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### 10. Volatile matter

#### Test Method:

GB/T 24508-2009 6.5.25 wood-plastic flooring- Volatile matter

GB/T 18586-2001 Indoor decorating and refurbishing materials – limit of harmful substances of polyvinyl chloride floor coverings

Specimens: WPC, 100mm×100mm×25mm, 3pcs

Heat time: 6 hours

#### Test Result:

| Specimens identification No.       | 1                | 2   | 3   |
|------------------------------------|------------------|-----|-----|
| Volatile matter(g/m <sup>2</sup> ) | 7.3              | 7.4 | 7.5 |
| Mean value (g/m <sup>2</sup> )     | 7.4 <sup>Ⓡ</sup> |     |     |

### 11. Slip resistance

#### Test Method:

GB/T 24508-2009 Section 6.5.16, Wood-plastic composite flooring - Slip resistance

Specimens: WPC, 1000mm×150mm×25mm, 1pcs

Environment temperature: 22.4 °C

Water temperature: 20.1 °C

Test surface & Test direction: see the photo

#### Test Result:

| Specimens identification No.              | 1    | 2  | 3  | 4  | 5  |
|---|------|----|----|----|----|
| Slip resistance value                     | 35   | 36 | 35 | 36 | 36 |
| Mean value                                | 36   |    |    |    |    |
| Technical requirements of GB/T 24508-2009 | ≥35  |    |    |    |    |
| Conclusion                                | Pass |    |    |    |    |

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### 12. Colour fastness resistance

#### Test Method:

GB/T 24508-2009 Section 6.5.20 Wood-plastic composite flooring - Colour fastness resistance

GB/T 15102-2006 Section 6.5.19 surface decorated wood-based panels with paper impregnated thermosetting resins

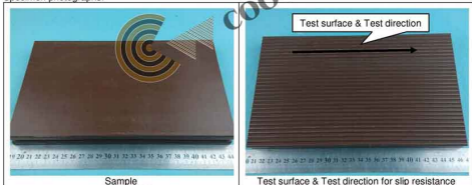
Specimens: WPC, 180mm×150mm×25mm, 1pcs

#### Test Result:

| Test Item                                 | Test result |
|---|-------------|
| Colour fastness resistance                | > Class 4   |
| Technical requirements of GB/T 24508:2009 | Ⓜ ≥ Class 4 |
| Conclusion                                | Pass        |

Note: Colour fastness resistance was carried out by an external laboratory assessed as competent.

#### Specimen photographs:



SGS authenticate the photos on original report only

Note: The test results were transferred from report No. : XMCCM141101207 dated: 2014.12.12; XMCCM141101208-01 dated:2014.12.17; XMCCM141101209 dated:2014.12.15; XMCCM141101210 dated:2014.12.30 issued by SGS.

\*\*\*\*\*End of report\*\*\*\*\*



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