



# VERIFICATION OF CPD COMPLIANCE

Certificate No.: IN-SH-5605-11011

**Changzhou Weideda Laminate- Flooring Co., Ltd.**  
 Address: Weixing Village, Henglin Town, Wujin District, Changzhou City, Jiangsu Province,  
 213103, China

has been assessed and certified as meeting the requirement of  
**Directive 89/106/EEC**  
 Annex III, Clause 2, Third Possibility  
 Scope of registration  
 Products characterised by

Standard	Product
EN 438-7:2005	Compact Grade HPL 1350 x 3050 x 6mm, 1220 x 2440 x 6mm, 1220 x 3050 x 6mm <i>The intended use: As internal or external Compact laminate panel in walls and ceilings for all uses other than used for fire protection of walls or ceilings, subject to reaction to fire regulations (A1, A2, B, C, D, E) and subject to regulations on dangerous substances.</i>

*The present certificate is customer voluntary act and refers to the tested samples only-type representative of the tested product. Product manufacturer is obligated to apply documented factory production control guaranteed that the product complies with the technical requirements and assuring that essential requirements to the construction in according to Directive 89/106/EEC have been implemented*

This certificate is valid from 16 December 2011 until 15 December 2014  
 Issue Certified since 16 December 2011



On behalf of SGS-CSTC STANDARDS TECHNICAL SERVICES (Shanghai) CO., LTD.

*Mesen Shi*  
**Mesen Shi**  
 Product Certification Manager  
 Industrial Services China

16 December 2011

*Disclaimer: Neither SGS-CSTC, any of it affiliated SGS sister organisations nor the SGS Group can be held responsibly for conformity or non-conformity of the actual product with the contents of the Technical File*

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SGSPAPER  
 11830413





## TEST REPORT

No. : SC111021156

Date : Nov. 25, 2011

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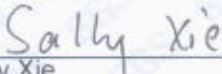
CHANGZHOU WEIDEDA LAMINATE-FLOORING CO., LTD  
WEIXING INDUSTRY AREA, CUIQIAO, HENGLIN TOWN, CHANGZHOU

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

Sample Name : Compact Grade HPL  
Sample Number : SC111021156  
SGS Ref No. : Q/IN-SH-5605-11009  
Test Required : Please see the next page(s)  
Test Method : Please see the next page(s)  
Product specification : 1300\*3050\*6mm; 1220\*2440\*6mm; 1220\*3050\*6mm  
Date of Receipt : Oct. 08, 2011  
Test Period : Oct. 08, 2011 to Nov. 25, 2011  
Test result(s) : For further details, please refer to the following page(s)

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

Signed for SGS-CSTC Standards  
Technical Services (Shanghai) Co., Ltd.

  
Sally Xie  
Authorized signatory

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Test result:

1. Resistance to fixings

Test conducted: EN 438-7:2005 Clause 4.5 Resistance to fixings

Test item	Test method	Test result	Requirement	Conclusion
Resistance to fixings	ISO 13894-1:2000 Test method 15	280N/mm	No requirement described in the standard	/

2. Bonding strength

Test Conducted: EN 438-7:2005 Clause 4.7 Bonding strength

Test item	Test method	Test result	Requirement	Conclusion
Surface bond strength	ISO 13894-1:2000 Test method 9	0.8Mpa	No requirement described in the standard	/

3. Flexural tensile strength

Test conducted: EN 438-7:2005 Clause 4.8 Flexural tensile strength

Test item	Test method	Test condition	Test result	Requirement (internal & external use)	Conclusion
Flexural strength	EN ISO 178:2010 Method A	Specimen width: 10.53mm	84.9MPa	≥80 MPa	Pass
Flexural modulus		Specimen thickness: 5.79mm Testing speed: 2mm/min Span: 90mm	11216MPa	≥9000 MPa	Pass

Note:

- 1).For internal use, the requirement is in accordance with EN 438-4:2005 Table 3 (Laminate grade CGS)
- 2).For external use, the requirement is in accordance with EN 438-6:2005 Table 3 (Laminate grade: EGS and EDS)

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

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### 4. Thermal resistance/conductivity

Test conducted: EN 438-7:2005 Clause 4.9 Thermal resistance/conductivity

Test item	Test Method	Test condition		Test result	Requirement	Conclusion
Thermal conductivity [W/(m·K)]	EN 12664:2001	Mean temperature (°C)	Temperature difference (°C)	0.163	No requirement described in the standard	/
Thermal resistance [(m <sup>2</sup> ·K) /W]		25.41	9.23	0.039		/
Remark	The test result can not be compared with other results obtained from different test conditions, and should not be cited to the use condition directly.					

### 5. Content of Pentachlorophenol

Test conducted: EN 438-7:2005 Clause 4.10 Release of dangerous substance

Test Method: With reference to DIN EN ISO 17070: 2007, analysis was performed by GC-ECD

Test Item(s)	Unit	MDL	Test result	Requirement	Conclusion
Pentachlorophenol (PCP)	mg/kg	0.5	ND	No requirement described in the standard	/

#### Note:

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

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

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### 6. Formaldehyde Emission

Test conducted: EN 438-7:2005 Clause 4.11.1 Release of formaldehyde

Test Method: With reference to EN 717-1:2004, analysis was performed by UV-Vis

Test Item(s)	Unit	MDL	Test result	Requirement	Conclusion
Formaldehyde Emission (In air)	mg/m <sup>3</sup>	0.080	ND	No requirement described in the standard	/

Note:

(1) mg/m<sup>3</sup> = milligram per cubic meter

(2) Reference Limit: EN13986:2004(E)

Formaldehyde class E1: ≤0.124 mg/m<sup>3</sup> air

Formaldehyde class E2: >0.124 mg/m<sup>3</sup> air

### 7. Thermal shock resistance

Test conducted: EN 438-7:2005 Clause 4.12 Additional characteristics for external use (thermal shock resistance)

Test cycle in accordance with EN 438-2:2005 test method 19, as below. Total 4 full 5 day test cycles

	Climate conditions			
	Duration	Temperature	Relative humidity	Condition
First day	8 h	+80°C	90%	Hot-wet
	16 h	+80°C		Hot-dry
Second day	8 h	+80°C	90%	Hot-wet
	16 h	-20°C		Cold-dry
Third day	8 h	+80°C	90%	Hot-wet
	16 h	+80°C		Hot-dry
Fourth day	8 h	-20°C		Cold-dry
	16 h	+80°C		Hot-dry
Fifth day	8 h	+80°C	90%	Hot-wet
	16 h	-20°C		Cold-dry

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

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SHML 306420

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Test item	Test method	Test result	Requirement in EN 438-6:2005 Table 4: (Laminate grade: EGS and EDS)	Conclusion
Appearance	EN 438-2:2005 Clause 29.5.2	Rating 4	Rating≥4	Pass
Flexural strength index, Ds	EN ISO 178:2010 Method A	1.08	≥0.95	Pass
Flexural modulus index, Dm		0.97	≥0.95	Pass

Note:

- 1). Flexural strength index, Ds= the flexural strength of specimens after thermal shock test/ the flexural strength of control specimens.
- 2). Flexural modulus index, Dm= the flexural modulus of specimens after thermal shock test/ the flexural modulus of control specimens.

Test result of Flexural strength and Flexural modulus after thermal shock

Test item	Test method	Test condition	Test result
Flexural strength	EN ISO 178:2010 Method A	Specimen width: 10.61mm Specimen thickness: 5.73mm Testing speed: 2mm/min Span: 90mm	92.1MPa
Flexural modulus			10846MPa

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

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### 8. Durability

#### 8.1 For internal use

Test conducted: EN 438-7:2005 Clause 4.13.1 Compact laminate panels/sidings for internal use

Test item		Test method	Test result	Requirement in EN 438-4:2005 Table 3 (Laminate grade CGS)	Conclusion
Immersion in boiling water	Mass increase	EN 438-2:2005 Test method 12	0.54%	≤2%	Pass
	Thickness increase		1.23%	≤2%	Pass
	Appearance		Rating 5	Rating≥4	Pass
Density		EN ISO 1183-1:2004 Test method A	1.43 g/cm <sup>3</sup>	≥1.35 g/cm <sup>3</sup>	Pass

#### 8.2 For external use

Test conducted: EN 438-7:2005 clause 4.13.2 Compact laminate panels/sidings for external use

Test item		Test method	Test result	Requirement in EN 438-6:2005 Table 3: (Laminate grade: EGS and EDS)	Conclusion
Immersion in boiling water	Mass increase	EN 438-2:2005 Test method 12	1.87%	≤5	Pass
	Appearance		Rating 5	Rating≥4	Pass
Density		EN ISO 1183-1:2004 Test method A	1.43 g/cm <sup>3</sup>	≥1.35 g/cm <sup>3</sup>	Pass

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

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