



TEST REPORT

Report Reference No.: HQR160624001-03

EN 13986:2004+A1:2015

Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking

Contents	1.Total test report 7 pages including: 2.Report text: 6 pages 3.Appendix A for product photos : 1 page	
Testing Laboratory name	Organization For Technical Conformity Ltd	
Applicant's name	Suzhou TECON Construction Technology Co., Ltd	
Address	Room 1108-1109, Block A, Building 2, LEFO commercial Center, WuZhong District, Suzhou	
Test specification	—	
Standard	EN 13986:2004+A1:2015	
Non-standard test method	None	
Test item description	TECON-Form Hardwood 21mm	
Trade Mark	—	
Model and/or type reference	—	
Manufacturer	Suzhou TECON Construction Technology Co., Ltd	
Rating(s)	—	
Test result	<input checked="" type="radio"/> Positive	<input type="radio"/> Negative
Tested by (name and signature)		
Approved by (name and signature)		
Date of issue	2016-08-03	

Marking plate: only a sample:

CE
Suzhou TECON Construction Technology Co., Ltd Room 1108-1109, Block A, Building 2, LEFO commercial Center, WuZhong District, Suzhou China 2016
EN 13986 TECON-Form Hardwood 21mm

Characteristics	Declared values
Thickness	21mm
Release of formaldehyde	E1
Inspection level	---
Year of manufacture	---

Test Result

PASS

Summary of testing:

This product has been successfully type-tested for conformity to all applicable requirement of
EN 13986:2004+A1:2015



Possible test case verdicts

- test case does not apply to the test object: N/A
- test object does meet the requirement: P (Pass)
- test object does not meet the requirement: F (Fail)

Testing

- Date of receipt of test item: June 24, 2016
- Date (s) of performance of tests: June 28, 2016 to July 29, 2016

General remarks:

"(See remark #)" refers to a remark appended to the report.
"(See Appendix #)" refers to an appendix appended to the report.
Throughout this report a comma (point) is used as the decimal separator.
When determining the test result, measurement uncertainty has been considered.

General product information:

TECON-Form Hardwood 21mm
Size: 21mm × 1220mm × 2440 mm
Refer to Appendix A—Product Photos

EN 13986

Clause	Requirement - Test	Result - Remark	Verdict
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5	Determination of the performance characteristics		—
5.1	Bending strength The bending strength shall be determined according to EN 310, except for solid wood panels which shall be tested according to EN 789 and for extruded particleboards which shall be tested according to EN 14755.	Longitudinal: 38N/mm ² Lateral: 36N/mm ²	P
5.2	Bending stiffness (Modulus of elasticity) The modulus of elasticity in bending shall be determined according to EN 310 except for solid wood panels which shall be tested according to EN 789.	Longitudinal: 7617 N/mm ² Lateral: 6038 N/mm ²	P
4.2.2	Bonding quality The bonding quality of solid wood panels shall be determined and the results expressed according to CEN/TS 13354. The bonding quality of plywood shall be determined according to EN 314-1 and the results expressed according to EN 314-2.	Class 3	P
4.2.3	Internal bond (Tensile strength) For OSB, particleboard, cement-bonded particleboard, and fibreboard, the tensile strength perpendicular to the plane of the board shall be determined according to EN 319, except for extruded particleboards which shall be tested according to EN 14755.	Longitudinal: 37 N/mm ² Lateral: 34 N/mm ²	P
5.1	Durability (Swelling in thickness) The swelling in thickness shall be determined according to EN 317 and expressed as a 95 percentile value, according to EN 326-1.	2.1%	P
5.2	Durability (Moisture resistance) The durability against moisture is assessed as bonding quality (see 5.3). The appropriate preconditioning for the expected use (dry, humid, exterior conditions) shall be used.	Not included in this report	N/A
5.3	Release of formaldehyde The formaldehyde release of wood-based panels shall be determined according to Annex B.	E1	P



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Clause	Requirement - Test	Result - Remark	Verdict
5.4	Reaction to fire The reaction to fire performance shall either be classified according to EN 13501-1 or the classes shall be taken from Table 8. When testing, and where required by the test method, the product shall be mounted and fixed in a manner representative of its intended end use.	Not included in this report	N/A
5.5.2	Water vapour permeability The water vapour permeability shall either be determined as the water vapour resistance factor according EN ISO 12572:2001 or taken from Table 9.	Not included in this report	N/A
5.5.3	Airborne sound insulation The airborne sound insulation shall be determined only for uses subject to acoustic sound requirements.	Not included in this report	N/A
5.5.4	Sound absorption The sound absorption coefficient shall only be determined when the panel is intended to be used as an acoustical absorbant. It shall either be determined according to EN ISO 354 or taken from Table 10.	Not included in this report	N/A
5.5.5	Thermal conductivity The thermal conductivity shall be determined only for uses subject to thermal insulation requirements. It shall either be determined according to EN 12664 or taken from Table 11.	Not included in this report	N/A
5.5.6	Strength and stiffness for structural use The bending strength and stiffness shall be determined according to EN 789 and expressed as a characteristic value according to EN 1058 (for plywood see EN 636:2003, 5.2.2). The characteristic values for use in structural design may also be taken from the relevant part of EN 12369, if included.	Not included in this report	N/A
5.6	Impact resistance for structural use The impact resistance shall be determined according to EN 1195 in conjunction with EN 12871.	Not included in this report	N/A



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Clause	Requirement - Test	Result - Remark	Verdict
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5.7.1	Strength and stiffness under point load for structural use The strength and stiffness shall be determined according to EN 1195 in conjunction with EN 12871.	Not included in this report	N/A
5.7.2	Mechanical durability The mechanical durability shall either be determined according to ENV 1156 or the appropriate modification factors k_{mod} and k_{def} may be taken from EN 1995-1-1	Not included in this report	N/A
5.7.3	Biological durability The hazard class(es) in which a product may be used shall be taken from the relevant parts of EN 335.	Not included in this report	N/A
5.7.4	Content of pentachlorophenol Wood-based panels normally contain less than 5 ppm of pentachlorophenol (PCP). If the product contains raw materials that include PCP, then the product shall be tested according to methods valid in the country of use. In case the value of 5 ppm is exceeded, the indication "PCP > 5 ppm" shall be added to the marking.	Less than 5 ppm	P
5.8	Evaluation of conformity		—
9	Marking		—

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Appendix A
Product Photos



*****End of Report*****