ORGANIZATION FOR TECHNICAL CONFORMITY

REPORT No.: HQR160624001-02

TEST REPORT

Report Reference No.: HQR160624001-02

EN 13377: 2002

Prefabricated timber formwork beams — Requirements, classification and assessment

Contents	1.Total test report 7 pages including: 2.Report text: 6 pages 3.Appendix A for product photos : 1 pages
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 13377: 2002
Non-standard test method	None
Test item description	H20 Timber beam
Trade Mark	—
Model and/or type reference	—
Manufacturer	Suzhou TECON Construction Technology Co.,Ltd
Rating(s)	—
Test result	●Positive ○Negative
Tested by (name and signature)	Steven
Approved by (name and signature)	Clark
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 13377
H20 Timber beam

Characteristics	Declared values
Material	Wood
Classification	---
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 13377: 2002

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:

H20 Timber beam

Material: Wood

H=200mm；L=2500mm；B=80mm

Refer to Appendix A—Product Photos

EN 13377			
Clause	Requirement - Test	Result - Remark	Verdict
5	**Performance requirements**		—
5.1	**General** Beams shall conform to the requirements of this clause according to their class. Conformity with the requirements shall be verified, see clauses 6 and 7, and manufacturing shall be subject to production control, see clause 8 and annex C.	P20	P
5.2	**Material and assembly requirements**		—
5.2.1	**Solid timber components – strength class** Members of solid timber shall at least conform to strength class C 24 of EN 338.	Min 8,9 N/mm²	P
5.2.2	**Wood based panel components** The web shall be made of one of the following materials	Solid wood	P
5.2.3	**Shear strength of the glue line in beam sections with webs conforming to 5.2.2c** After applying the wet-dry cyclic testing procedure given in annex D, the mean value of the shear strength of beam sections shall be at least 9 kN.	10 kN after 20 cycles	P
5.2.4	**Glued finger joints** Glued finger joints in flanges shall conform to EN 385.	Not finger joints	N/A
5.2.5	**Glue** Glue shall fulfil the requirements of type I of EN 301.	Type 1	P
5.3	**Dimensions**		—
5.3.1	**Principal dimensions** The length of the beam shall conform to the manufacturers declared dimension within a tolerance of 10 mm.	Max.: 6mm deviation	P
5.3.2	**Dimensional movement due to moisture variation** Within the range of moisture content of 10 % to 20 %, the dimensional movement of depth H shall not exceed 1,0 % of H.	0.5%	P
5.4	**Structural properties**		—

EN 13377			
Clause	Requirement - Test	Result - Remark	Verdict
5.4.1	**General** The characteristic resistances given in 5.4.2 and 5.4.3 are for the 5 % quantile with a 75 % confidence level.	See below results	P
5.4.2	**Panel web beam** The values of the characteristic ultimate resistance and stiffness of a panel web beam shall be at least as great as the values given in Table 1 for the relevant class.	EI: 477 kNm^2 Vk: 25kN Rb,k: 50kN Mk: 12.1kNm	P
5.4.3	**Lattice web beam** The values of the characteristic ultimate resistance and stiffness of a lattice beam shall be at least as great as the values given in Table 2.	Panel web beam	N/A
6	**Prototype assessment** For each model of beam a sample of prototype beams shall be assessed. For this purpose, a model of beam is of one construction but of any length. The model of beam shall conform to the requirements of clauses 5 and 10 of this standard and the manufacturer's specifications.	Not include in this report	N/A
7	**Evaluation of conformity**		—
7.1	**General** Evaluation of the model of beam shall verify conformity to the relevant requirements of this standard.	See below results	P
7.2	**Process of assessment**		—
7.2.1	For the prototype beams the following shall be made available by the manufacturer:	Provided	P
7.2.2	It shall be verified that the prototype beams conform to the requirements of 5.2.	See the results of 5.2	P
7.2.3	It shall be verified that the prototype beams conform to the requirements of 5.3.	See the results of 5.2	P
7.2.4	Verification of the structural properties specified in 5.4 shall be by testing in accordance with A.1 and A.2 and calculation in accordance with A.3.	See the results of 5.2	P

EN 13377			
Clause	Requirement - Test	Result - Remark	Verdict
7.2.5	For each test specified in A.2 and for tests at each of the stages given in annex D, a minimum number of 10 tests on specimens chosen from a batch of 50 beams is required. Specimens chosen shall have glued finger joints in one or both flanges and in the web in accordance with Figures A.1 and A.2.	Tested	P
7.2.6	Characteristic resistances and stiffnesses representing the 5 % quantile level with a 75 % confidence level shall be calculated from the test results using the method specified in annex B.	Within 5%	P
7.3	**Statement of conformity** On completion of a successful evaluation of conformity (see clause 8), a statement to that effect shall be given.This statement shall express that the model of beam conforms to the beam class and the related requirements of this standard.	Provided	P
8	**Ongoing production inspection** Ongoing production inspection shall be carried out.	ISO Certified Not include in this report	N/A
9	**Marking** Each beam shall be durably marked with insoluble ink. The size of the lettering shall be at least 25 mm.	See the marking plate	P
10	**Instructions for use** The manufacturer shall provide a set of instructions for the user.	Provided	P

**********End of page**********

Appendix A

Product Photos

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