

REPORT No.: HQR160624001-02

TEST REPORT

Report Reference No.: HQR160624001-02

EN 13377: 2002

Prefabricated timber formwork beams — Requirements, classification and assessment

	1.Total test report 7 pages including:
Contents	2.Report text: 6 pages
maffolding L.	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
	Room 1108-1109, Block A, Building 2, LEFO commercial
Address	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)	- STOR TECHNIC
Test result	●Positive ○Negative
Tested by (name and signature)	Sterior Allinois
Approved by (name and signature)	Clark -
Date of issue	2016-08-03



REPORT No.: HQR160624001-02

Scaffolding Engineering

m.com

Formwork &

Marking plate: only a sample:



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
17 46	Material	Wood
M.	Classification	
	Inspection level	+6C011
	Year of manufacture	.10

Test Result

ding Engineering

PASS

Summary of testing:

This product has been successfully type-tested for conformity to all applicable requirement of

EN 13377: 2002



N/A

REPORT No.: HQR160624001-02

Formwork &

Possible test case verdicts

- test case does not apply to the test object:

- 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	TINN tec)—
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	Р
5.2	Material and assembly requirements		- En
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	Р
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	. CC
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	Р
5.3	Dimensions		101K-81
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	Р
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	0.5%	Р

the dimensional movement of depth H shall not

exceed 1,0 % of H.

5.4

Structural properties



	EN 13377		707
Clause	Requirement - Test	Result - Remark	Verdict
		1100	1
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	Р
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	Torm	MOLKO
7.2.1	For the prototype beams the following shall be made available by the manufacturer:	Provided	Р
7.2.2	It shall be verified that the prototype beams conform to the requirements of 5.2.	See the results of 5.2	Р
7.2.3	It shall be verified that the prototype beams conform to the requirements of 5.3	See the results of 5.2	Р

See the results of 5.2

to the requirements of 5.3.

and calculation in accordance with A.3.

7.2.4

Verification of the structural properties specified in 5.4 shall be by testing in accordance with A.1 and A.2



REPORT No.: HQR160624001-02

		EN 13377	
Clause	Requirement - Test	Result - Remark	Verdict

	For each test specified in A.2 and for tests at each of			
7.2.5	the stages given in annex D, a minimum number of	M		
	10 tests on specimens chosen from a batch of 50	Tested	P	
	beams is required. Specimens chosen shall have	rested	P	
	glued finger joints in one or both flanges and in the			
	web in accordance with Figures A.1 and A.2.			30
	Characteristic resistances and stiffnesses			115
7.2.6	representing the 5 % quantile level with a 75 %	Within 5%		neering
7.2.0	confidence level shall be calculated from the test	VVITNIN 5%	Pengi Iding Engi	
Form	results using the method specified in annex B.	& scaff	No.	
	Statement of conformity	Formwork		
	On completion of a successful evaluation of	40.		
7.3	conformity (see clause 8), a statement to that effect	Provided	Р	
1.3	shall be given. This statement shall express that the			
	model of beam conforms to the beam class and the			\sim
	related requirements of this standard.		CO!	772
RIT	Ongoing production inspection	ISO Certified	N/A	
	Ongoing production inspection shall be carried out.	Not include in this report	19//	
	Marking	20077		
9	Each beam shall be durably marked with insoluble	See the marking plate	Р	
	ink. The size of the lettering shall be at least 25 mm.			
	Instructions for use			
10	The manufacturer shall provide a set of instructions	Provided	8 P	
	for the user.		1 1 -	

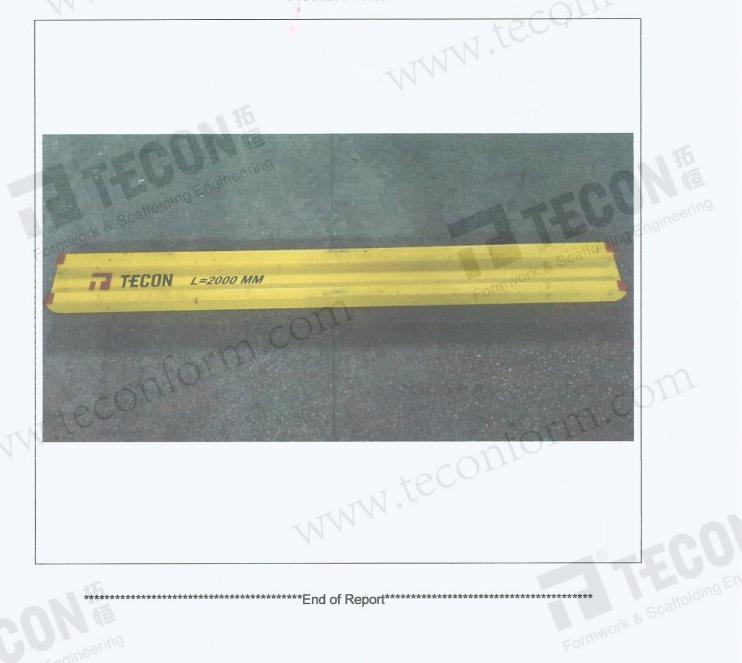
www.teconform.com **End of page**********

Page 6 of 7



onform.cc REPORT No.: HQR160624001-02

Appendix A **Product Photos**



teconform.com