

TEST REPORT

No. : SC121221751

Date : Dec. 20, 2012

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Test conducted: EN 13377: 2002 Prefabricated timber formwork beams – Requirements, classification and assessment

I. Sample Detail

Test Item	Sample Dimension		
	L	b	H
Shear Resistance (V)	1500mm	80mm	200mm
Bending Resistance (M)	3300mm	80mm	200mm
Bearing Resistance (R _b)	3000mm	80mm	200mm

II. Test Result

Test Item	Test Result	Failure Location
Shear Resistance (V)	27.71 kN	Middle part
Bending Resistance (M)	15.75 kNm	Finger joint
Bearing Resistance (R _b)	71.07 kN	Finger joint
Bending Stiffness (E _i)	460 kNm ²	
Remark	Classification cannot be given based on single test result of each test item.	

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

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III. Classification of panel web beams according to EN13377:2002 Table 1 is cited below for reference:

Table 1 — Classification, dimensions and structural properties of panel web beams

1	2	3	4	5	6	7
Class	beam depth H [mm]	minimum flange width b [mm]	E_t [kNm ²]	V_k [kN]	$R_{b,k}$ [kN]	M_k [kNm]
P16	160	65	200	18,4	36,8	5,9
P20	200	80	450	23,9	47,8	10,9
P24	240	80	700	28,2	56,4	14,1

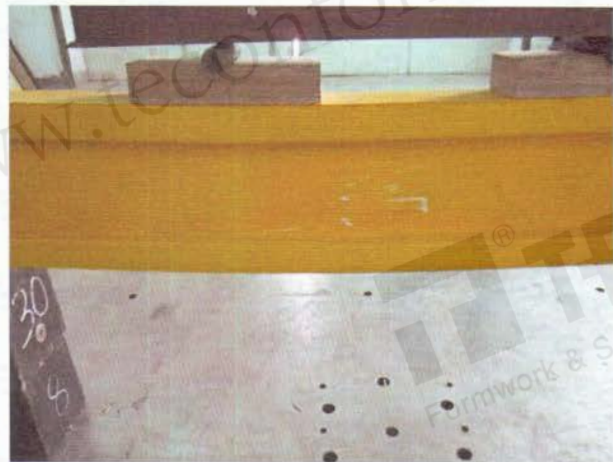
NOTE 1 For explanation of symbols, see 3.2.
NOTE 2 For calculation of "safe working loads", see annex E.

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Test Photos:



a) Test arrangement for shear resistance



b) The failure status of shear resistance test

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

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