

TEST REPORT

No. : SC091221451

Date : Feb. 04, 2010

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TANCHOR CHANNELS CO., LTD
3F, BUILDING 3, NO 1221 YAN AN XI RD SHANGHAI

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

Sample Name : TANCHOR
Sample Number : SC091221451
Test Required : Please see next pages
Product or Lot No. : hot rolled
Product Specification : HBC52/26 300MM LENGTH
Manufacturer : TANCHOR CHANNELS CO., LTD
Date of Receipt : Dec. 8, 2009
Test Period : Dec. 8, 2009 to Feb. 04, 2010
Test result(s) : For further details, please refer to the following page(s)

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

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

Sally Xie
Sally Xie
Authorized signatory

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Tensile Loading Test of TANCHOR Hot Rolled Channel

1. Brief Introduction

TANCHOR CHANNELS CO., LTD (3F, Building 3, No.1221, Yan an xi Rd, Shanghai, P.R.C) consigns SGS-CSTC Standard Technical Services (Shanghai) Co., Ltd. to test the tensile loading test of TANCHOR Hot Rolled Channel. The type of the sample is HBC52/26 300MM, provided by consigner. The embedment of the sample and the mold of the concrete are done by SGS. The molding concrete is commercial concrete transported by pump which strength grade is C40. The curing age is 28 days.

2. Test Method

With reference to BS 5080-1:1993 Structural fixings in concrete and masonry ---Part 1: Method of test for tensile loading

3. Test Equipments

No.	Equipment	Type
1	ENERPAC Bolt pull test apparatus	P80
2	Dial indicator	0~50mm
3	Digital Gauge for Force	Z50

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4. Test Results

4.1 Description of Concrete

Design Strength	Molding Date	Test Date	Provider of Concrete	Concrete Strength Grade
C40	2009-12-9	2010-1-10	Shanghai Shuangqiu commercial concrete Co., Ltd.	C40

4.2 Test Results of TANCHOR Hot Rolled Channel

No.	Design Load (kN)	Acceptable Load of Failure (kN)	Safety factor	Test Result			
				Maximum Load (kN)	Average of Maximum Effective Deflection (mm)	Breaking Form of Samples	Conclusion
1	24	72	3.0	127.6	4.59	The embedded rod was broken	Meet the design requirements
2				131.4	4.88	The embedded rod was broken	Meet the design requirements
3				129.1	4.54	The embedded rod was broken	Meet the design requirements

1. The design load and safety factor was declared by client.
2. Requested by client, the average of maximum effective deflection is the record of maximum average deflection within 5mm.

Annex 1: Test results of each sample

Annex 2: Sample Drawing

Annex 3: Test Photos

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

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Annex 1: Test results of each sample

Table 1 Test results of Sample 1

No.	Load (kN)	Deflection (mm)		Average Deflection (mm)
		1	2	
1	10	0.02	0.00	0.01
2	20	0.24	0.17	0.20
3	30	0.42	0.85	0.64
4	40	0.73	1.32	1.02
5	50	1.38	2.74	2.06
6	60	2.01	3.84	2.92
7	70	3.42	5.76	4.59
8	80	4.66	6.57	5.62
9	90	5.72	8.03	6.88
10	100	7.34	9.72	8.53

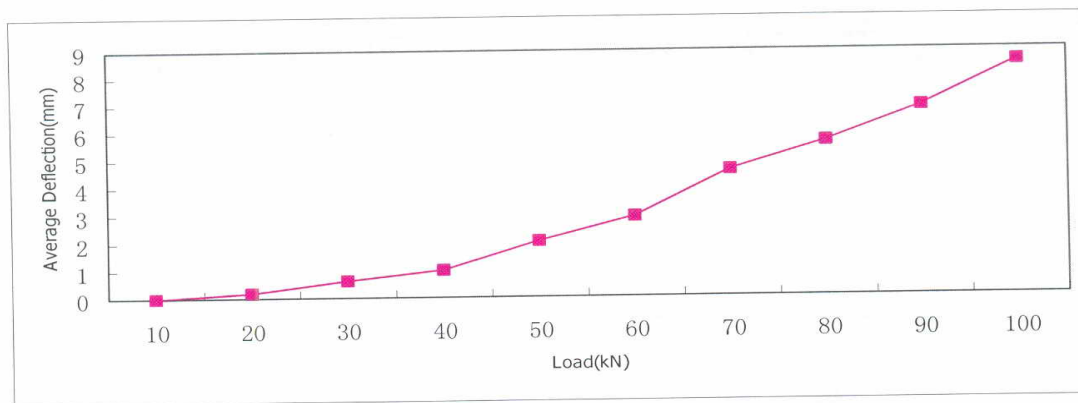


Fig.1 Average Deflection-Load graph of Sample1

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

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Table 2 Test results of Sample 2

No.	Load (kN)	Deflection (mm)		Average Deflection (mm)
		1	2	
1	10	0.00	0.04	0.02
2	20	0.16	0.31	0.24
3	30	0.38	0.92	0.65
4	40	0.91	1.36	1.14
5	50	1.58	2.91	2.24
6	60	2.76	3.74	3.25
7	70	3.85	5.92	4.88
8	80	4.58	7.12	5.85
9	90	5.34	7.96	6.65
10	100	6.55	9.30	7.92

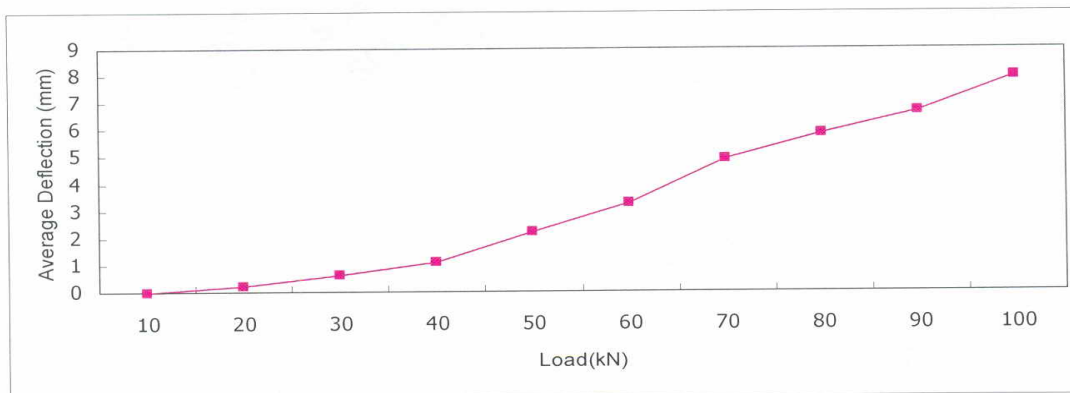


Fig.2 Average Deflection-Load graph of Sample2

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Table 3 Test results of Sample 3

No.	Load (kN)	Deflection (mm)		Average Deflection (mm)
		1	2	
1	10	0.03	0.01	0.02
2	20	0.27	0.42	0.34
3	30	0.51	0.48	0.50
4	40	0.66	0.98	0.82
5	50	1.22	1.68	1.45
6	60	2.06	3.01	2.54
7	70	4.01	3.98	4.00
8	80	4.72	4.35	4.54
9	90	5.46	6.98	6.22
10	100	6.84	8.02	7.43

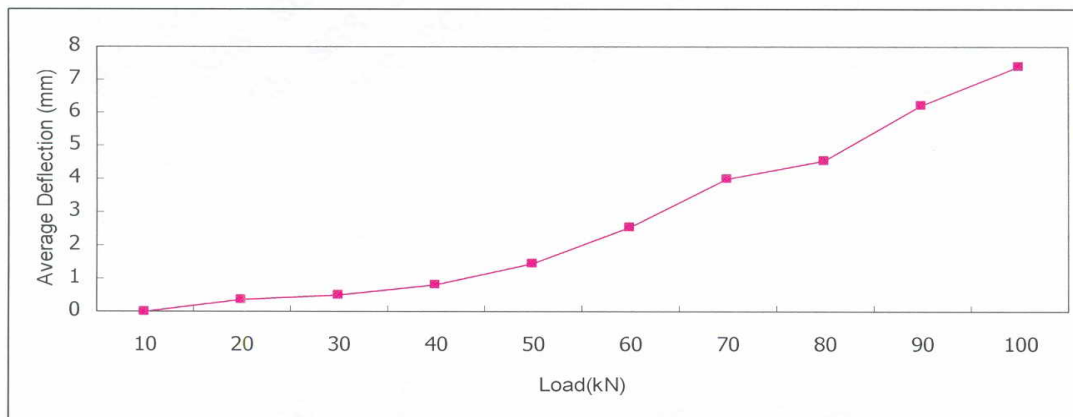


Fig.3 Average Deflection-Load graph of Sample3

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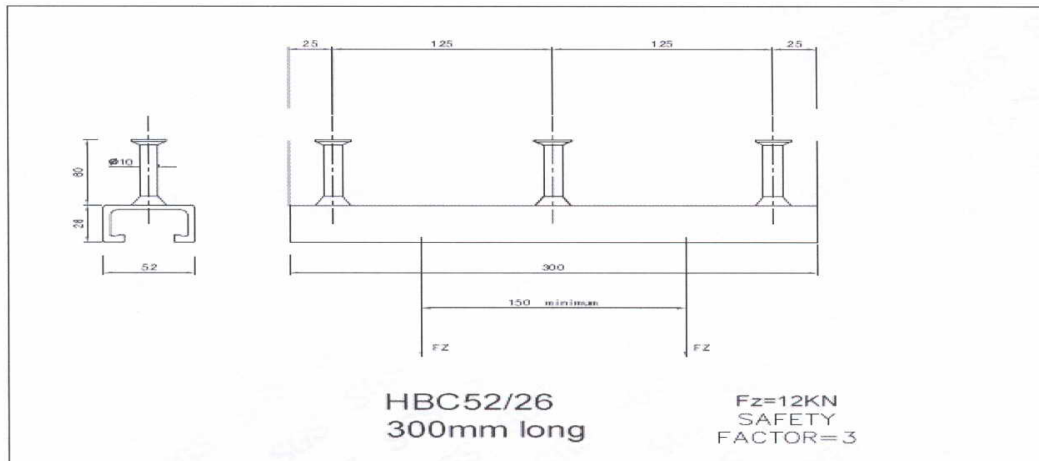
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Annex 2: Sample Drawing



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Annex 3: Test Photos



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

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