

TEST REPORT

No. : SC110420375

Date : May. 25. 2011

Page: 1 of 10

TANCHOR CHANNELS CO., LTD.

3F, BUILDING 3, NO.1221, YAN-AN RD, SHANGHAI, P. R. C

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

Sample Name : Tanchor Cast-in channel
 Sample Number : SC110420375
 Test Required : Please see next pages
 Test Method : Please see next pages
 Product specification : HBC40/22
 Manufacturer : TANCHOR CHANNELS CO., LTD.
 Material and Mark : Hot-rolled
 Date of Receipt : Apr. 25, 2011
 Test Period : Apr. 25, 2011 to May. 25, 2011
 Test result(s) : For further details, please refer to the following page(s)

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

Signed for 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 Cast-in Channel. The type of the sample is HBC40/22, 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 C30. 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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SHML 319151

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4. Test Results

4.1 Description of Concrete

Design Strength	Molding Date	Test Date	Provider of Concrete	Concrete Strength Grade
C30	2011-04-25	2011-05-23	Shanghai Pengzhong concrete products Co., Ltd.	C30

4.2 Test Results of TANCHOR Hot Rolled Channel

No.	Design Load (kN)	Accept able Load of Failure (kN)	Safety factor	Test Result			
				Maximum Load (kN)	Average of Maximum Effective Deflection (mm)	Breaking Form of Samples	Conclusion
1	16	48	3.0	76.7	0.93	The sample is shown deformation. The concrete is broken.	Meet the design requirements
2				78.1	1.44	The sample is shown deformation. The concrete is broken.	Meet the design requirements
3				77.4	2.24	The sample is shown deformation. The concrete is broken.	Meet the design requirements

Note: The design load and safety factor was declared by client.

Annex 1: Test results of each sample

Annex 2: Sample drawing and photo

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	5	0.00	-0.05	-0.03
2	10	0.00	-0.08	-0.04
3	15	-0.01	-0.05	-0.03
4	20	-0.07	0.04	-0.02
5	25	-0.14	0.14	0.00
6	30	-0.17	0.22	0.03
7	35	-0.19	0.30	0.06
8	40	-0.21	0.44	0.12
9	45	-0.22	0.49	0.14
10	50	-0.23	0.57	0.17
11	55	-0.22	0.67	0.23
12	60	-0.10	0.85	0.38
13	65	0.17	1.21	0.69
14	70	0.36	1.49	0.93

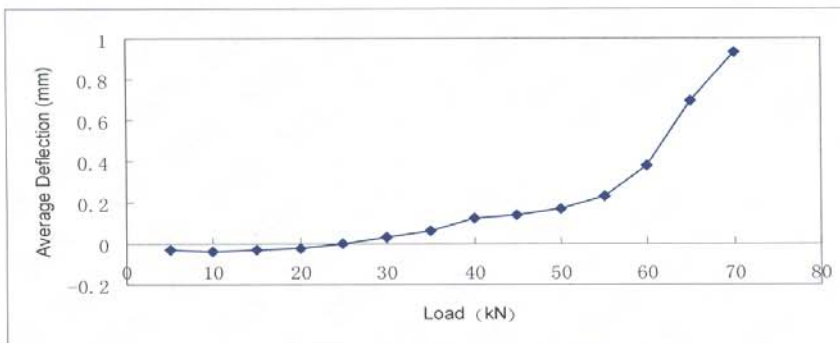


Fig.1 Average Deflection-Load graph of Sample1

***** 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	5	0.00	0.01	0.01
2	10	0.07	0.02	0.05
3	15	0.13	0.03	0.08
4	20	0.18	0.03	0.11
5	25	0.22	0.03	0.13
6	30	0.27	0.04	0.16
7	35	0.32	0.05	0.19
8	40	0.37	0.05	0.21
9	45	0.45	0.07	0.26
10	50	0.54	0.10	0.32
11	55	0.67	0.16	0.42
12	60	0.98	0.31	0.65
13	65	1.43	0.58	1.01
14	70	1.97	0.90	1.44

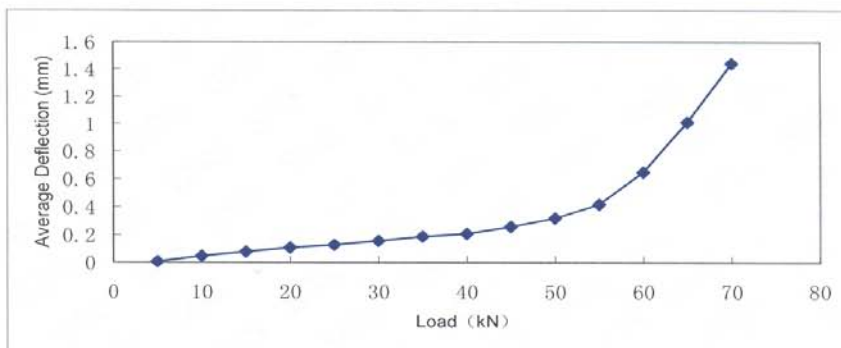


Fig.2 Average Deflection-Load graph of Sample2

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Table 3 Test results of Sample 3

No.	Load (kN)	Deflection (mm)		Average Deflection (mm)
		1	2	
1	5	0.00	-0.05	-0.03
2	10	0.02	-0.05	-0.02
3	15	0.05	0.22	0.14
4	20	0.11	0.30	0.21
5	25	0.16	0.36	0.26
6	30	0.26	0.43	0.35
7	35	0.36	0.48	0.42
8	40	0.52	0.51	0.52
9	45	0.68	0.64	0.66
10	50	0.90	0.83	0.87
11	55	1.09	1.01	1.05
12	60	1.32	1.19	1.26
13	65	1.85	1.57	1.71
14	70	2.45	2.02	2.24

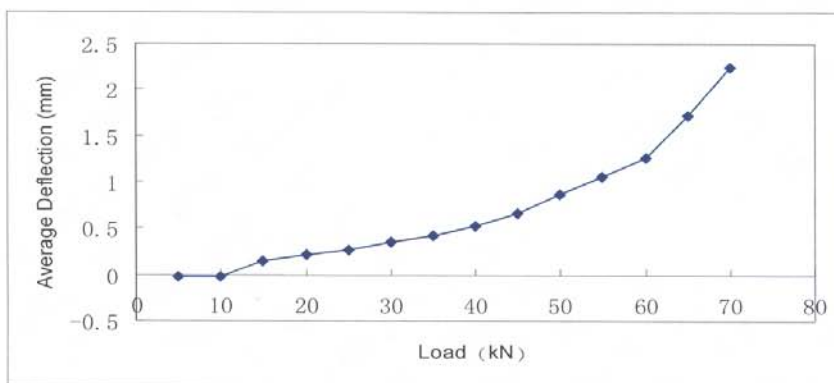


Fig.3 Average Deflection-Load graph of Sample3

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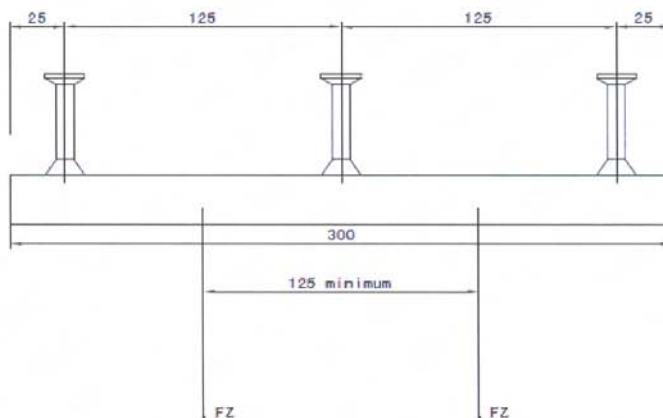
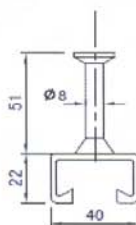
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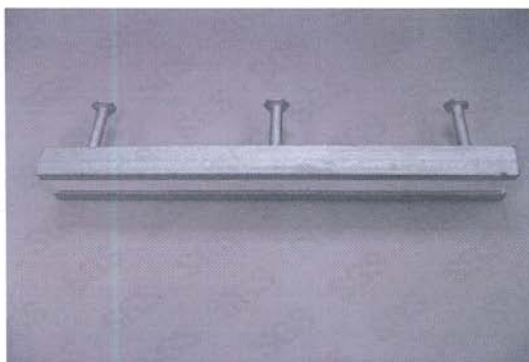
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Annex 2: Sample Drawing and photo



HBC40/22

**Fz=8.0KN
SAFETY
FACTOR=3**



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Annex 3: Test Photos

Sample 1:



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Sample 2:



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Sample 3:



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