



TEST REPORT

No. : SHCCM131102368

Date : Dec. 26, 2013

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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 CAST-IN CHANNEL
Sample Number : SHCCM131102368
Test Required : Tension test
Test Method : With reference to BS 5080-1:1993(R2008)
Product specification : HBC52/34-300
Manufacturer : TANCHOR CHANNELS CO., LTD.
Material and Mark : hot rolled
Date of Receipt : Nov. 18, 2013
Test Period : Nov. 18, 2013 to Dec. 19, 2013
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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1. Brief Introduction:

Tanchor Channels Co., Ltd consigns SGS-CSTC Standard Technical Services (Shanghai) Co., Ltd. to test the tensile loading of Tanchor Cast-in Channel. The embedment of the sample and the mold of the concrete are done by consigner.

2. Test Method:

With reference to BS 5080-1:1993(R2008) Structural fixings in concrete and masonry-Part 1: Method of test for tensile loading

3. Test Equipments:

No.	Equipment	Type
1	Bolt pull test apparatus	ZY-30
2	Dial indicator	0~10mm

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4. Test result:

Sample No.	Design Load (kN)	Acceptable load of failure (kN)	Safety Factor	Test result		
				Maximum test load (kN)	Failure mode	Conclusion
1	44	132	3	151.0	Concrete was broken. The sample showed visible deformation	Meet the design requirements
2				155.0	Concrete was broken. The sample showed visible deformation	Meet the design requirements
3				146.8	Concrete was broken. The sample showed visible deformation	Meet the design requirements

Note:

1. The design load and safety factor are declared by client.
2. The embedment of the sample and the mold of the concrete were done by client.

Annex A: Test results of each sample

Annex B: Sample drawing and photo

Annex C: Test photos

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

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Annex A: Test results of each sample

Table 1: Test results of Sample1

No.	Load (kN)	Deflection (mm)		Average Deflection (mm)
		1	2	
1	0	0	0	0
2	5	0.08	0.08	0.08
3	10	0.16	0.20	0.18
4	15	0.25	0.34	0.30
5	20	0.33	0.50	0.42
6	25	0.40	0.70	0.55
7	30	0.55	0.98	0.76
8	35	0.73	1.27	1.00
9	40	0.9	1.55	1.22
10	45	1.10	1.83	1.46
11	50	1.31	2.09	1.70
12	55	1.48	2.31	1.90
13	60	1.76	2.54	2.15
14	65	2.09	2.79	2.44
15	70	2.47	3.20	2.84

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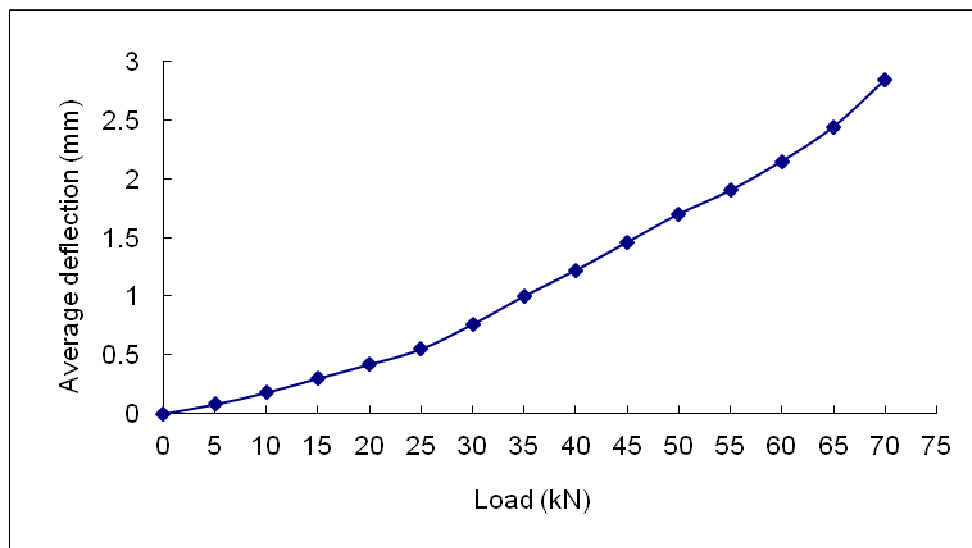


Fig.1: Average Deflection-Load Graph of Sample1

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Table 2: Test results of Sample2

No.	Load (kN)	Deflection (mm)		Average Deflection (mm)
		1	2	
1	0	0	0	0
2	5	0.02	0.06	0.04
3	10	0.05	0.11	0.08
4	15	0.11	0.16	0.14
5	20	0.18	0.23	0.20
6	25	0.30	0.34	0.32
7	30	0.47	0.50	0.48
8	35	0.67	0.69	0.68
9	40	0.86	0.89	0.88
10	45	1.05	1.09	1.07
11	50	1.24	1.28	1.26
12	55	1.44	1.50	1.47
13	60	1.65	1.72	1.68
14	65	1.85	1.94	1.90
15	70	2.09	2.19	2.14

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

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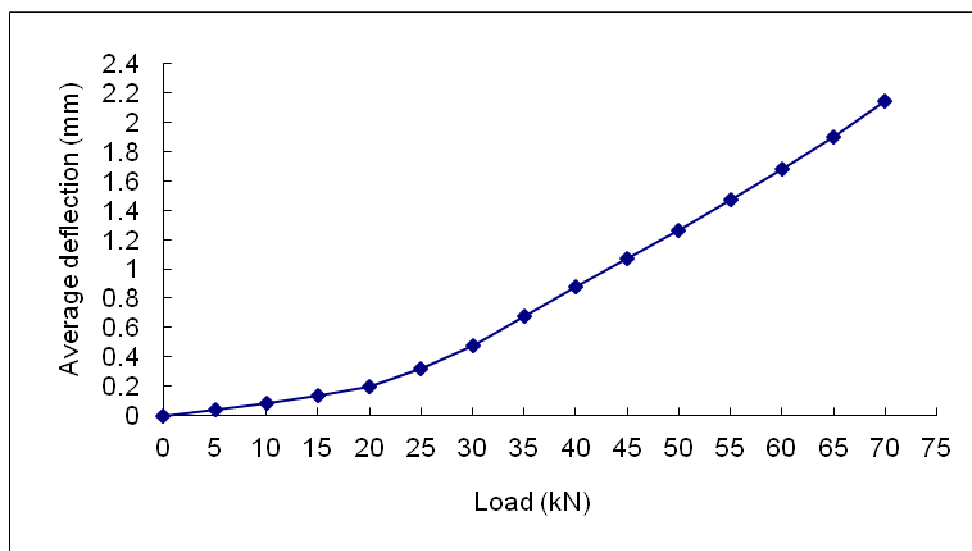


Fig.2: Average Deflection-Load Graph of Sample2

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Table 3: Test results of Sample3

No.	Load (kN)	Deflection (mm)		Average Deflection (mm)
		1	2	
1	0	0	0	0
2	5	0	0.11	0.06
3	10	0.03	0.19	0.11
4	15	0.08	0.30	0.19
5	20	0.10	0.42	0.26
6	25	0.17	0.53	0.35
7	30	0.23	0.60	0.42
8	35	0.39	0.74	0.56
9	40	0.49	1.00	0.74
10	45	0.71	1.23	0.97
11	50	0.81	1.53	1.17
12	55	1.04	1.71	1.38
13	60	1.31	1.97	1.64
14	65	1.64	2.14	1.89
15	70	1.91	2.40	2.16

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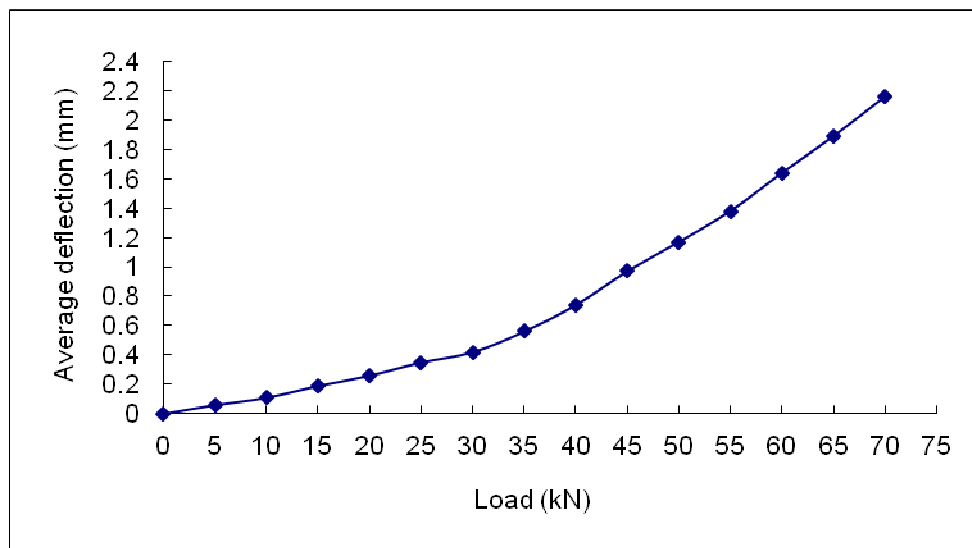


Fig.3: Average Deflection-Load Graph of Sample3

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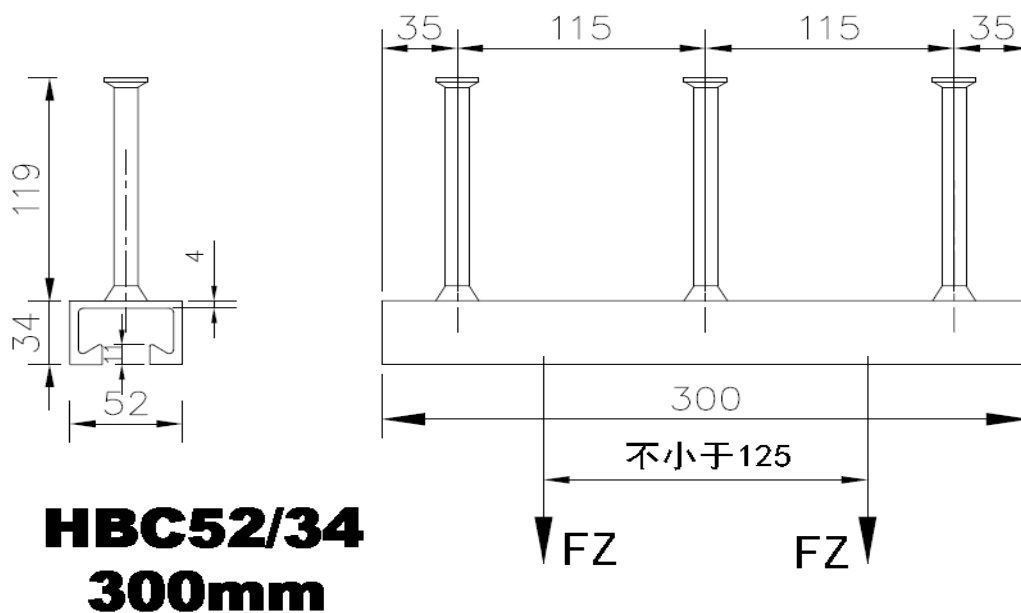
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Annex B: Sample drawing and photo



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Annex C: Test photos



Before test (1)



Before test (2)



The sample1 after test



The sample2 after test

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

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The sample3 after test

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