



TEST REPORT

No. : SHCCM130500896

Date : May. 22, 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 : SHCCM130500896
Test Required : Tension test
Test Method : With reference to BS 5080-1:1993(R2008)
Product Specification : TRS-96
Manufacturer : Tanchor Channels Co., Ltd.
Material and Mark : Hot rolled
Date of Receipt : May. 14, 2013
Test Period : May. 14, 2013 to May. 22, 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 (strength grade C30) 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

4. Test result:

Sample No.	Design Load (kN)	Work load (kN)	Acceptable Load of Failure (kN)	Safety Factor	Test result	
					When test load is 80kN, check sample's status	Conclusion
1	21.6	43.2	64.8	3	No abnormal	Meet the design requirements
2					No abnormal	Meet the design requirements
3					No abnormal	Meet the design requirements

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

Annex A: Detailed test results of each sample

Annex B: Sample drawing and photo

Annex C: Test photos

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

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Annex A Detailed test results of each sample

Table 1: Test results of Sample 1

No.	Load (kN)	Deflection (mm)		Average Deflection (mm)
		1	2	
1	0	0.00	0.00	0.00
2	5	0.00	0.00	0.00
3	10	0.00	0.00	0.00
4	15	0.00	0.00	0.00
5	20	0.01	0.01	0.01
6	25	0.03	0.02	0.02
7	30	0.05	0.04	0.04
8	35	0.06	0.06	0.06
9	40	0.08	0.09	0.08
10	45	0.11	0.12	0.12
11	50	0.13	0.14	0.14
12	55	0.14	0.17	0.16
13	60	0.17	0.20	0.18
14	65	0.20	0.24	0.22
15	70	0.24	0.28	0.26
16	75	0.29	0.32	0.30
17	80	0.33	0.36	0.34

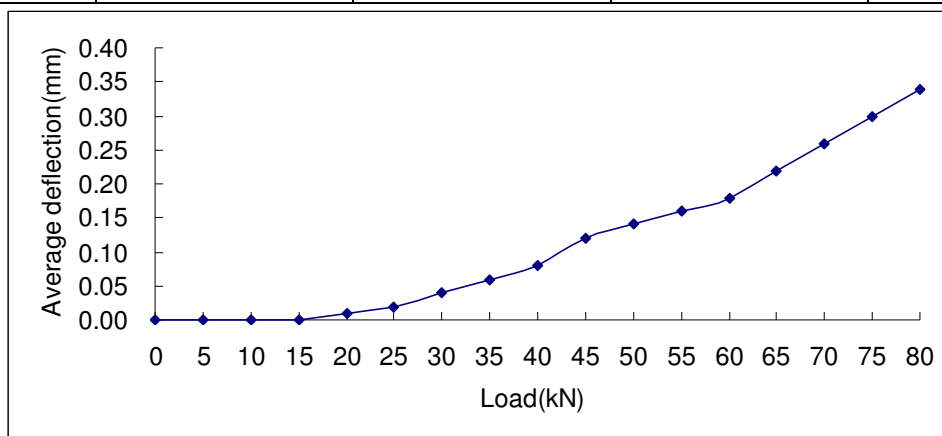


Fig.1: Average Deflection-Load Graph of Sample 1

***** 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	0	0.00	0.00	0.00
2	5	0.00	0.00	0.00
3	10	0.00	0.00	0.00
4	15	0.02	0.00	0.01
5	20	0.04	0.00	0.02
6	25	0.09	0.02	0.06
7	30	0.14	0.03	0.08
8	35	0.24	0.09	0.16
9	40	0.36	0.15	0.26
10	45	0.49	0.23	0.36
11	50	0.57	0.29	0.43
12	55	0.65	0.34	0.50
13	60	0.71	0.39	0.55
14	65	0.78	0.44	0.61
15	70	0.81	0.48	0.64
16	75	0.88	0.54	0.71
17	80	0.95	0.59	0.77

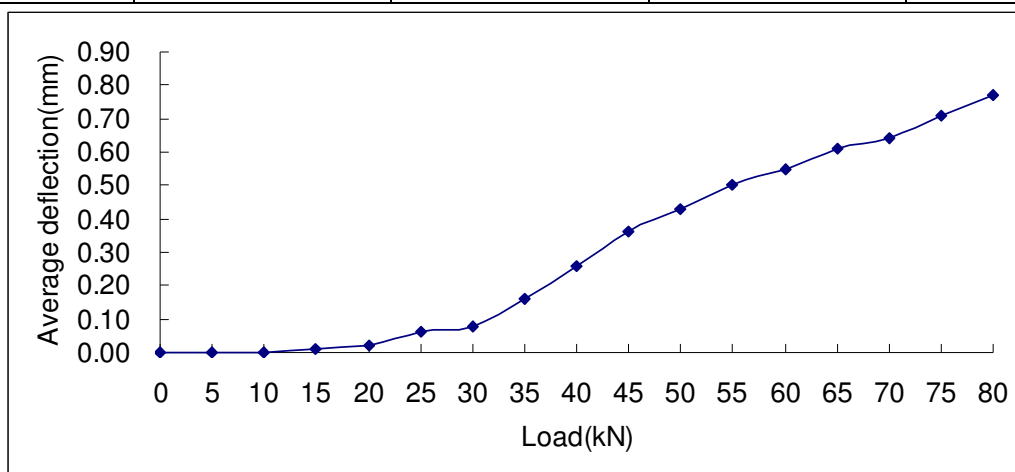


Fig.2: Average Deflection-Load Graph of Sample 2

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

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Table 3: Test results of Sample 3

No.	Load (kN)	Deflection (mm)		Average Deflection (mm)
		1	2	
1	0	0.00	0.00	0.00
2	5	0.00	0.00	0.00
3	10	0.00	0.00	0.00
4	15	0.00	0.00	0.00
5	20	0.00	0.00	0.00
6	25	0.01	0.01	0.01
7	30	0.02	0.02	0.02
8	35	0.05	0.05	0.05
9	40	0.07	0.08	0.08
10	45	0.09	0.09	0.09
11	50	0.12	0.12	0.12
12	55	0.16	0.15	0.16
13	60	0.20	0.18	0.19
14	65	0.25	0.21	0.23
15	70	0.31	0.25	0.28
16	75	0.36	0.30	0.33
17	80	0.44	0.32	0.38

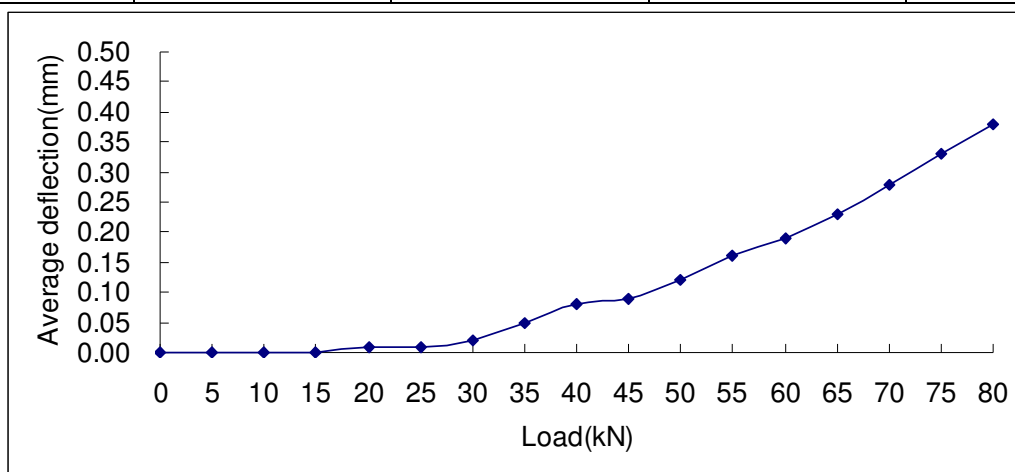


Fig.3: Average Deflection-Load Graph of Sample 3

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

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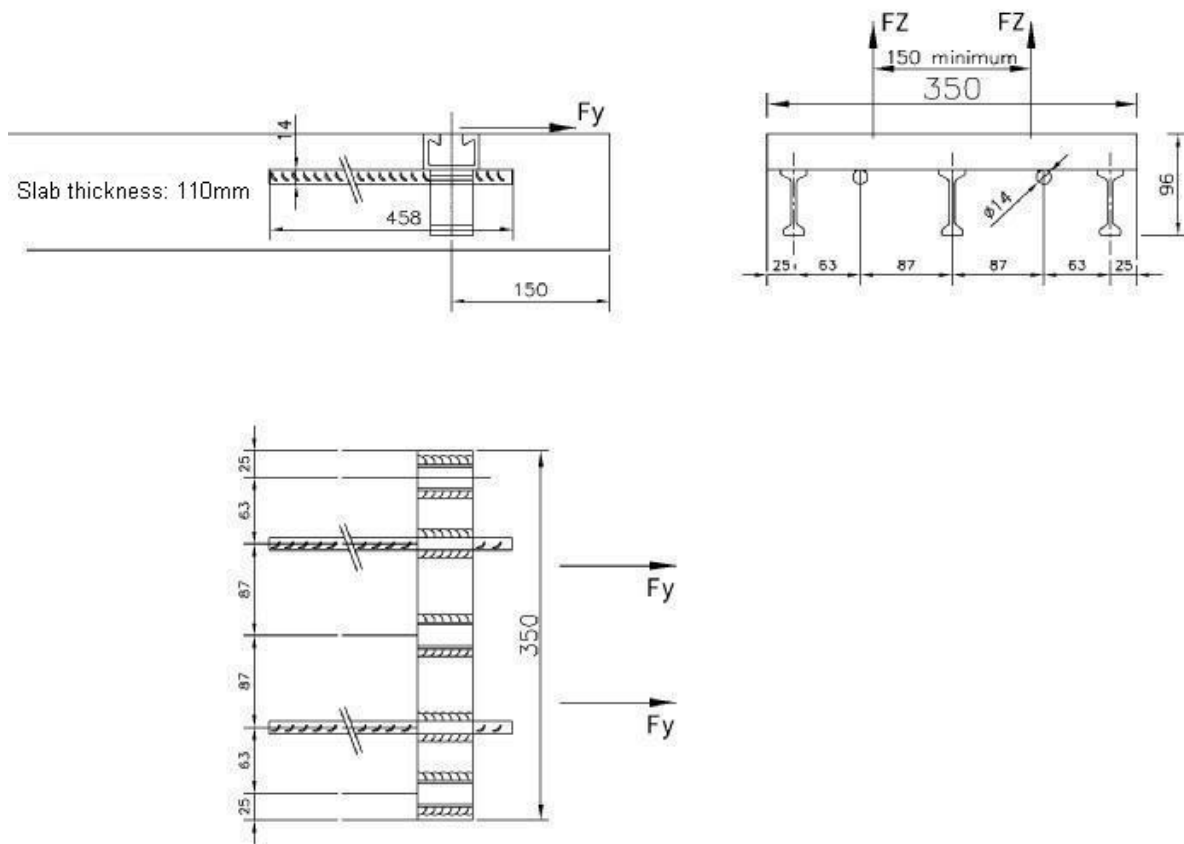
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Statement: Unless otherwise stated the result shown in this test report refer only to the sample(s) tested.

Annex B: Sample drawing and photo



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

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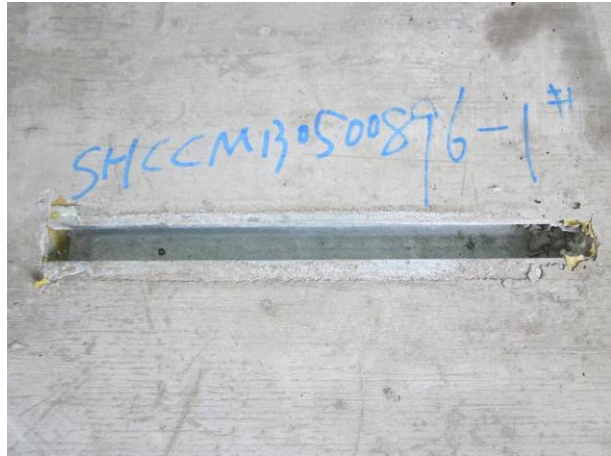
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Annex C: Test photos



Before test



The sample 1 After test

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

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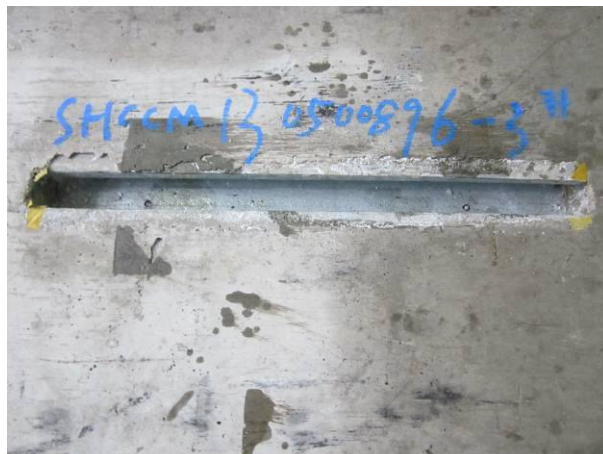
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The sample 2 After test



The sample 3 After test

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

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