

TEST REPORT

No. : SC081220887

Date : Feb.19,2009

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LIYNIX ENTERPRISE 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 No : SC081220887
 Test Required : Please see next pages
 Test Method : Please see next pages
 Product specification : HBC54/33 350MM
 Manufacturer : LIYNIX ENTERPRISE CO.,LTD
 Date of Receipt : Dec.23,2008
 Test Period : Dec.23,2008 to Feb.19,2009
 Test results : Please see next pages

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

Signed for SGS-CSTC Standards
 Technical Services Co., Ltd

Joanna

Joanna Wang
 Lab Technical Supervisor

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Tensile Loading Test of TANCHOR Cold Formed Channel

1. Brief Introduction

LIYNIX ENTERPRISE Co., Ltd.(3F, Building 3, No.1221, Yan an xi Rd, Shanghai, P.R.C)consigns SGS-CSTC Standard Technical Services Co., Ltd. to test the tensile loading test of TANCHOR Cold Formed Channel. The type of the sample is HBC54/33 350MM, provided by consigner. The concrete is molded and built in by SGS.

The molding concrete is commercial concrete transported by pump which strength grade is C35. The curing age is 28 days.

2. Test Method

Refer 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	0~10mm
3	Digital Gauge for Force	Z50

4. Test Results

4.1 Description of Concrete

Design Strength	Molding Date	Test Date	Provider of Concrete	Concrete Strength Grade
C35	2009-01-14	2009-02-13	Shanghai Shuangqiu commercial concrete Co., Ltd.	C35

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

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4.2 Test Results of TANCHOR Cold Formed Channel

No.	Sample Type	Design Load (kN)	Break Load (kN)	Test Result			
				Maximum Load (kN)	Average of Maximum Effective Deflection (mm)	Breaking Form of Samples	Conclusion
1	HBC54/33 350MM	50	150	165.1	2.90	The channel part of the sample was split.	Meet the design requirement.
2				163.2	5.38	The channel part of the sample was split.	Meet the design requirement.
3				165.4	4.40	The channel part of the sample was split.	Meet the design requirement.

Annex 1: Test results of each sample

Annex 2: Samples 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	0.00	0.00	0.00
2	20	0.06	-0.01	0.02
3	30	0.14	-0.01	0.06
4	40	0.25	0.00	0.12
5	50	0.37	0.18	0.28
6	60	0.48	0.23	0.36
7	70	0.59	0.26	0.42
8	80	0.70	0.32	0.51
9	90	0.83	0.40	0.62
10	100	1.00	0.51	0.76
11	110	1.20	0.61	0.90
12	120	1.47	0.81	1.14
13	130	1.72	0.91	1.32
14	140	2.09	1.12	1.60
15	150	2.54	1.61	2.08
16	160	3.31	2.50	2.90

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

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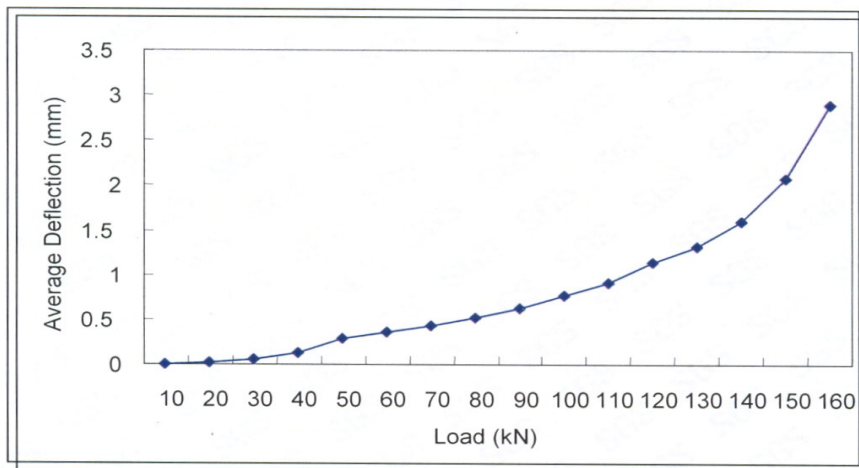


Fig.1 Average Deflection-Load graph of Sample1

*****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	0.08	0.00	0.04
2	20	0.32	0.06	0.19
3	30	0.54	0.14	0.34
4	40	0.66	0.24	0.45
5	50	0.81	0.42	0.62
6	60	0.96	0.61	0.78
7	70	1.13	0.78	0.96
8	80	1.28	0.97	1.12
9	90	1.45	1.08	1.26
10	100	1.63	1.30	1.46
11	110	1.83	1.46	1.64
12	120	2.19	1.82	2.00
13	130	2.52	2.23	2.38
14	140	2.93	2.74	2.84
15	150	3.82	3.76	3.79
16	160	5.29	5.47	5.38

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

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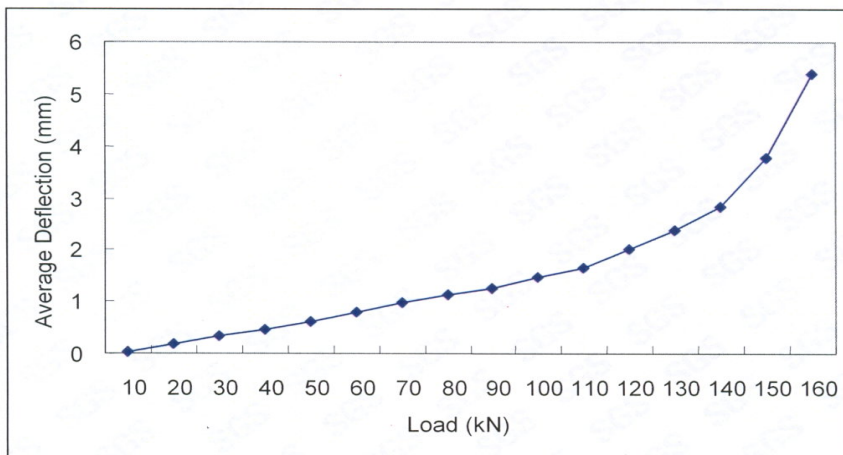


Fig.2 Average Deflection-Load graph of Sample2

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Table 3 Test results of Sample 3

No.	Load (kN)	Deflection (mm)		Average Deflection (mm)
		1	2	
1	10	0.21	0.00	0.10
2	20	0.30	0.00	0.15
3	30	0.44	0.09	0.26
4	40	0.54	0.14	0.34
5	50	0.66	0.26	0.46
6	60	0.81	0.43	0.62
7	70	0.95	0.58	0.76
8	80	1.13	0.77	0.95
9	90	1.29	0.92	1.10
10	100	1.47	1.07	1.27
11	110	1.71	1.29	1.50
12	120	1.97	1.51	1.74
13	130	2.30	1.77	2.04
14	140	2.85	2.11	2.48
15	150	3.37	2.60	2.98
16	160	4.65	4.16	4.40

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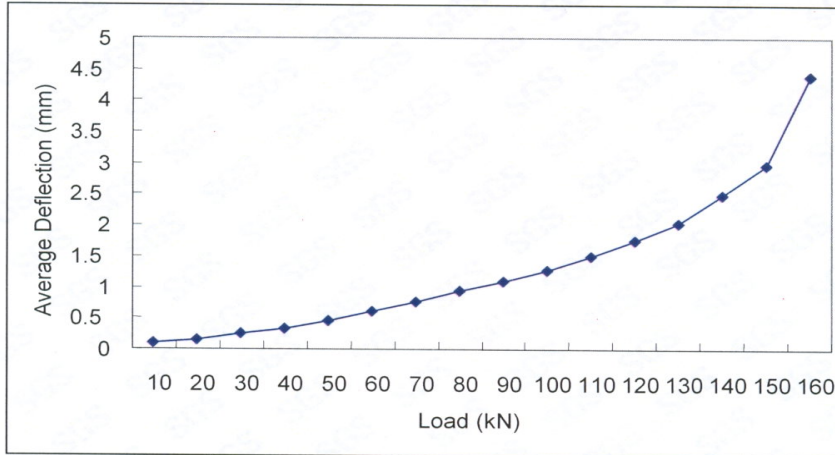
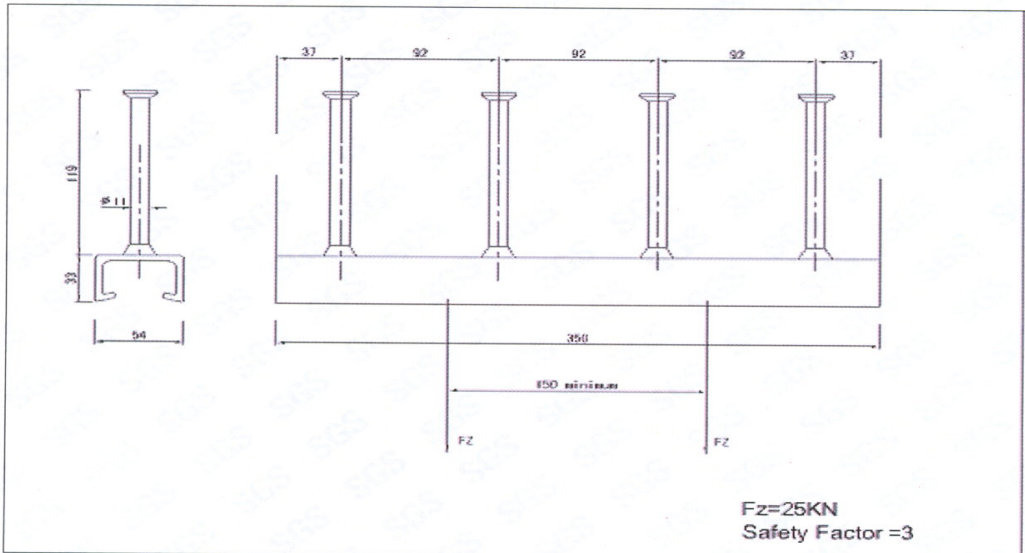


Fig.3 Average Deflection-Load graph of Sample3

Annex 2: Samples Drawing



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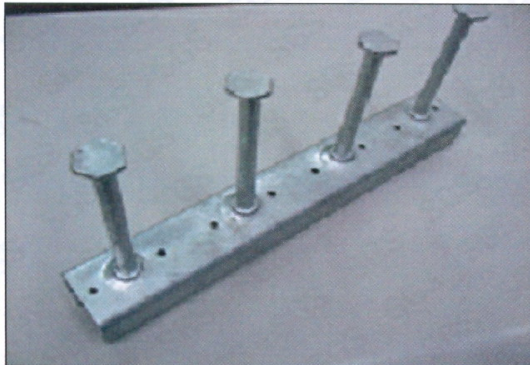
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Annex 3: Test Photos



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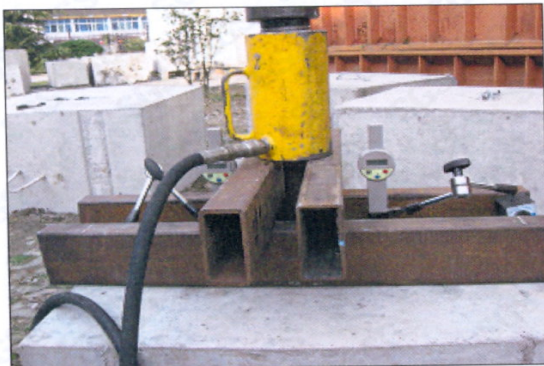
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*****End of report*****

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