

No.: SC090120050

Date: Mar.06,2009

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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

SC090120050

Test Required

Please see next pages

Test Method

Please see next pages

Product specification

HBC38/17 300MM

Manufacturer

LIYNIX ENTERPRISE CO., LTD

Date of Receipt

Jan.20,2009

Test Period

Jan.20,2009 to Mar.06,2009

Test Result

Please see next pages

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

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

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 HBC38/17 300MM, 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	Туре
1	ENERPAC Bolt pull test apparatus	P80
2	Dial indicator	0~10mm
3	Digital Gauge for Force	Z50

Test Results

4.1 Description of Concrete

C35 2009-02-03 2009-03-03 Shanghai Shuangqiu commercial concrete Co., Ltd.	Desigr Strengt	Molding Data	Test Date	Provider of Concrete	Concrete Strength Grade
	C35	2009-02-03	2009-03-03		C35

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

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4.2 Test Results of TANCHOR Cold Formed Channel

No. Sample		Design Break		Test Result			
No.	Туре	Load (kN)	Load (kN)	Maximum Load (kN)	Average of Maximum Effective Deflection (mm)	Breaking Form of Samples	
1	LIBOOM			48.26	5.92	The channel part of the sample was split.	
2	HBC38/17 300MM	14	42	51.08	4.22	The channel part of the sample was split.	
3 Conclus	ion: The test re			46.82	4.76	The channel part of the sample was split.	

Conclusion: The test result of maximum Load met the design requirement.

Annex 1: Test results of each sample

Annex 2: Samples Drawing

Annex 3: Test Photos

Annex 1: Test results of each sample

Table 1	Test	results	of s	Sample	1
l able 1	rest	results	of 3	Sample	1

No.	Load (kN)	Deflection (mm)		Average Deflection
	Lodd (KIV)	1	2	(mm)
1	5	0.00	0.03	0.02
2	10	0.04	0.09	0.07
3	15	0.12	0.18	0.15
4	20	0.26	0.39	0.33
5	25	0.64	0.81	0.73
6	30	0.92	1.22	1.07
7	35	1.62	1.96	1.79
8	40	3.12	4.08	3.60
9	45	4.85	5.92	5.38

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

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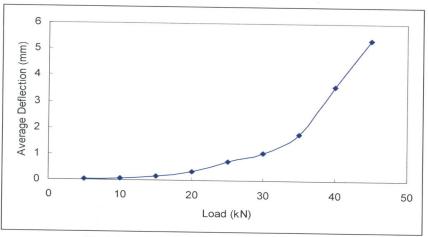


Fig.1 Average Deflection-Load graph of Sample1

Table 2 Test results of Sample 2

No.	Load (kN)	Deflection (mm)		Average Deflection
	Lodd (KIV)	1	2	(mm)
1	5	0.01	0.00	0.01
2	10	0.07	0.02	0.05
3	15	0.16	0.12	0.14
4	20	0.36	0.24	0.30
5	25	0.81	0.74	0.78
6	30	1.14	1.02	1.08
7	35	1.86	2.03	1.95
8	40	2.96	3.16	3.06
9	45	3.64	4.22	3.93

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

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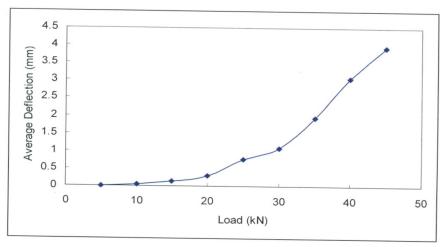


Fig.2 Average Deflection-Load graph of Sample2

Table 3 Test results of Sample 3

No.	Load (kN)	Deflection (mm)		Average Deflection
	Lodd (KIV)	1	2	(mm)
1	5	0.00	0.06	0.03
2	10	0.02	0.15	0.09
3	15	0.09	0.28	0.14
4	20	0.16	0.45	0.31
5	25	0.38	0.62	0.50
6	30	1.02	1.37	1.20
7	35	1.95	2.32	2.14
8	40	3.22	3.86	3.54
9	45	4.52	4.76	4.64

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

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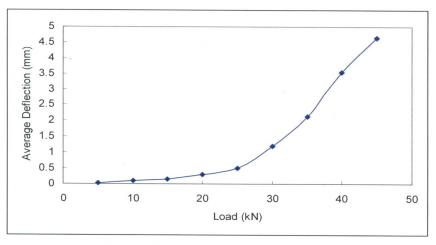


Fig.3 Average Deflection-Load graph of Sample3 *******To be continued*******

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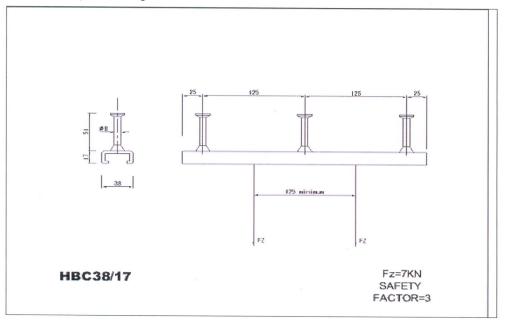


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Annex 2: Samples Drawing



Annex 3: Test Photos





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

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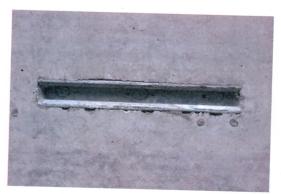
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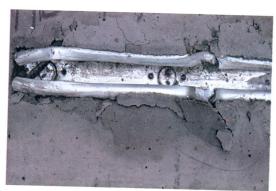
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*******End of report******

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