

Zertifikate

Carport-Teile

Hersteller wurde auf Wunsch anonymisiert - Vollständige
Angaben auf Anfrage erhältlich



Welding Certificate

TÜVRh-EN1090-2.02724.2024.004

in accordance with EN 1090-1, table B.1, its hereby declared:
The manufacturer has produced evidence that he fulfills the requirements of the European standard EN 1090-2 for execution of structural steel components

Manufacturer

Technical specification

EN 1090-2:2018

Execution class(es)

EXC2 according to EN 1090-2

Welding Process(es)

(Reference no. acc. to DIN EN ISO 4063)

135 - Metal active gas welding, fully mechanized

Material Group

1.1

according to CEN ISO/TR 15608 and EN 1090-2, table 2 and 3

Responsible Welding Coordinator

(Title, Surname, Name, Qualification, Date of birth)

Zhijin Chen, Level B

born on: 28.01.1985

Substitute

(Title, Surname, Name, Qualification, Date of birth)

-

Confirmation

All provisions concerning welding as described in the above mentioned technical specification(s) were applied.

Validity start

10.08.2020

Period of validity

09.08.2025

Remarks

-

Place and date of issue

Cologne, 29.06.2024
Xiao/LB



Dipl.-Ing. Makowka
Head of certification body

Certificate number: TÜVRh-EN1090-2.02724.2024.004

General Terms

1. This certificate is valid as long as the terms of the above technical specifications themselves or the manufacturing conditions of the essential manufacturing factory have not changed significantly.
2. This certificate may only be reproduced or published for advertising or other purposes than as a whole. The text of promotional material doesn't have to be in conflict with this certificate.
3. In case of any doubt as to the suitability of the manufacturing factory(ies) there is the possibility reserved by the inspection authority to carry out an unexpected spot checks in the manufacturing factory paid by the manufacturer
4. This certificate may be withdrawn at any time with immediate effect and be amended or modified if the conditions under which it was granted have changed, or if the terms of this certificate are not met.
5. The following changes must be reported to the inspection authority:
 - a) New production or significant changes to essential manufacturing facilities;
 - b) Change of the welding coordinator;
 - c) inception of new welding processes, new base materials and related WPQRs(welding procedure qualification record)
 - d) new essential manufacturing facilities

The inspection authority will cause a supplementary examination in the cases cited

6. At least two months before the expiry date there shall be submitted an application to the inspection authority, when the qualification should be recertified.

distributor

1. Applicant
2. File

CERTIFICATE

Conformity of the Factory Production Control

0035-CPR-1090-1.02840.TÜVRh.2024.004

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the following construction product:

Construction product	Structural components and kits for steel structures to EXC2 according to EN 1090-2
Intended use	for load-bearing structures in all types of buildings
CE-marking method	ZA.3.2 and ZA.3.4 acc. to EN 1090-1:2009+A1:2011
Manufacturer	produced by or for Huanbin Xiao TUV, TÜV and TUV sind eingetragene Marken. Eine Nutzung und Verwendung bedarf der vorherigen Zustimmung.
Manufacturing plant Production facility of the manufacturer	Produktionsstätte Huanbin Xiao TUV, TÜV and TUV sind eingetragene Marken. Eine Nutzung und Verwendung bedarf der vorherigen Zustimmung.
Confirmation	This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the harmonised standard EN 1090-1:2009+A1:2011 under system 2+ are applied, and that the factory production control fulfills all the prescribed requirements stated therein.
Date of first issue	10.08.2020
Next Surveillance audit	09.08.2025
Period of validity	This certificate will remain valid as long as the test methods and/or the factory production control requirements included in the harmonised standard used to assess the performance of the declared characteristics do not change, and the product and the manufacturing conditions in the plant are not modified significantly.
Remarks	see reverse
Place and date of issue	Cologne, 29.06.2024 Huanbin Xiao


Dipl.-Ing. Makowka
Head of certification body

Certificate number: 0035-CPR-1090-1.02840.TÜVRh.2024.004

Remarks	The Notified Body - 0035 TÜV Rheinland Industrie Service GmbH has performed the initial inspection of the/of manufacturing plant(s) and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control.
---------	--

General provisions

The conditions of the standard EN 1090-1:2009+A1:2011, from section B. 4.1 until including section B. 4.4, must be fulfilled.

The requirements of EN 1090-1:2009 + A1: 2011, section B. 4.3 are observed. These refer to the annual statements to be submitted in writing of the manufacturer to the Notified Body.

The General Terms and Conditions of the TÜV Rheinland Industrie Service GmbH apply in the currently valid version.

TEST REPORT

No. : XMIN1803001773ML

Date : Apr 03, 2018

Page: 1 of 3

CUSTOMER NAME:

ADDRESS:

Sample Name : END CLAMP

Product Specification : L40

Material and Mark : AL6005-T5

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : XMIN180300553CCM

Date of Receipt : Mar 27, 2018

Testing Start Date : Mar 27, 2018

Testing End Date : Apr 03, 2018

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd Xiamen Branch
Testing Center

Hank Li

Authorized signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed hereon, available on request or accessible at www.sgs.com.sg/terms-conditions and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com.sg/terms-conditions. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not constitute parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or signature of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone (86-755) 8327 1995, or email: CN.Docs@sgs.com

No. 21 Xiangyang Road, Nanpu South Industrial Zone, Xiamen, Fujian Province, China 361101 T: (86-592) 5788857 F: (86-592) 5788880 www.sgs.com.cn
中国·福建·厦门·湖里（南安）产业园区红树林路21号 邮编: 361101 T: (86-592) 5788857 F: (86-592) 5788880 * sgs.china@sgs.com

TEST REPORT

No. : XMIN1803001773ML

Date : Apr 03, 2018

Page: 2 of 3

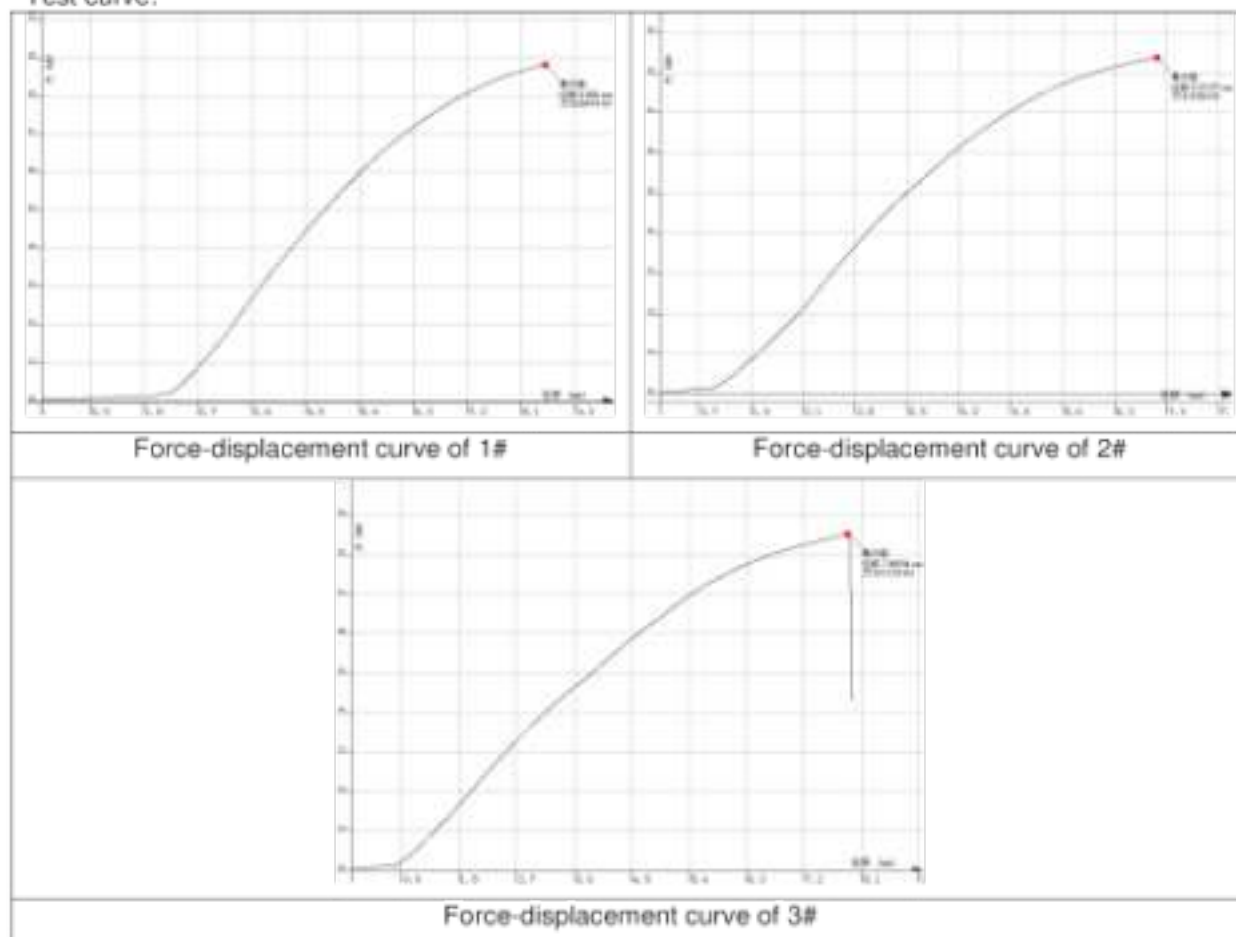
Pull test:

Test method: according to the client's requirements, fix the sample on the test machine. Apply the pull force as a rate of 5mm/min till destruction. Determine the maximum force.

Test Result:

Sample No.	Maximum force (kN)
1#	8.80
2#	8.38
3#	8.52

Test curve:



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/sgs/conditions-and-conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/sgs/conditions-and-conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not constitute partial to a transaction from exercising at their risks and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention to check the authenticity of testing / inspection report & certificate, please contact us at telephone (86-755) 8327 7000 or email CN.Check@sgs.com

No.21 Xingcheng Road, Xingcheng Industrial Zone, Xiamen, Fujian Province, China 361101 | (86-592) 5765857 | (86-592) 5765880 | www.sgs.com.cn
 中国·福建·厦门·大埕1路21号 邮编:361101 | (86-592) 5765857 | (86-592) 5765880 | sgs.china@sgs.com

TEST REPORT

No. : XMIN1803001773ML

Date : Apr 03, 2018

Page: 3 of 3

Test Photo:



Photo 1: Samples before test



Photo 2: before loading



Photo 3: destroyed



Photo 4: the samples after the test

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/sgs/Service-Conditions-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/sgs/Service-Conditions-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not constitute partial to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are returned for 30 days only.

Attention to check the authenticity of testing / inspection report & certificate, please contact us at telephone (86-755) 8387 1888 or email CN.Questcheck@sgs.com

No.21 Xingcheng Road, Xingcheng Industrial Zone, Nanhai, Foshan, China 321101 | (86-562) 5765857 | (86-562) 5765880 | www.sgs.com.cn

中国·福建·厦门·火炬园 361101 | (86-592) 5765857 | (86-592) 5765880 | sgs.china@sgs.com

Member of the SGS Group (SGS SA)

TEST REPORT

No. : XMIN1901000346ML

Date : Jan 24, 2019

Page: 1 of 3

CUSTOMER NAME:

ADDRESS:

Sample Name : SOLAR SUPPORT: BEAM CONNECTOR & BASE

Product Specification : L=75&L=110

Material and Mark : AL6005-T5

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : XMIN190100090CCM

Date of Receipt : Jan 15, 2019

Testing Start Date : Jan 15, 2019

Testing End Date : Jan 24, 2019

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd Xiamen Branch
Testing Center

Hank Li

Hank Li
Authorized signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overseas, available on request or accessible at <http://www.sgs.com/en/Products-and-Services.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, subscription and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone (86-755) 8387 5442, or email: CN.Document@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch Testing Center

No. 31 Jiangnan Road, Gangqin Tech Industrial Zone, Xiamen, Fujian Province, China. 361101 | (86-592) 5791586 | (86-592) 5792380 | www.sgs.com
中国·福建·厦门·火炬(群安)产业园区翔安路31号 邮编: 361101 | (86-592) 5791586 | (86-592) 5792380 | sgs.china@sgs.com

TEST REPORT

No. : XMIN1901000346ML

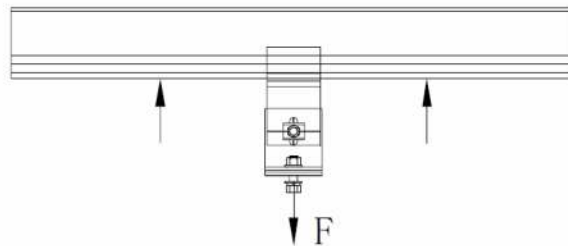
Date : Jan 24, 2019

Page: 2 of 3

Pull test:

Test method: according to the client's requirements, fixed the sample on the test machine as the following sketch. Apply the pull force as a rate of 5mm/min till destruction. Determine the maximum force.

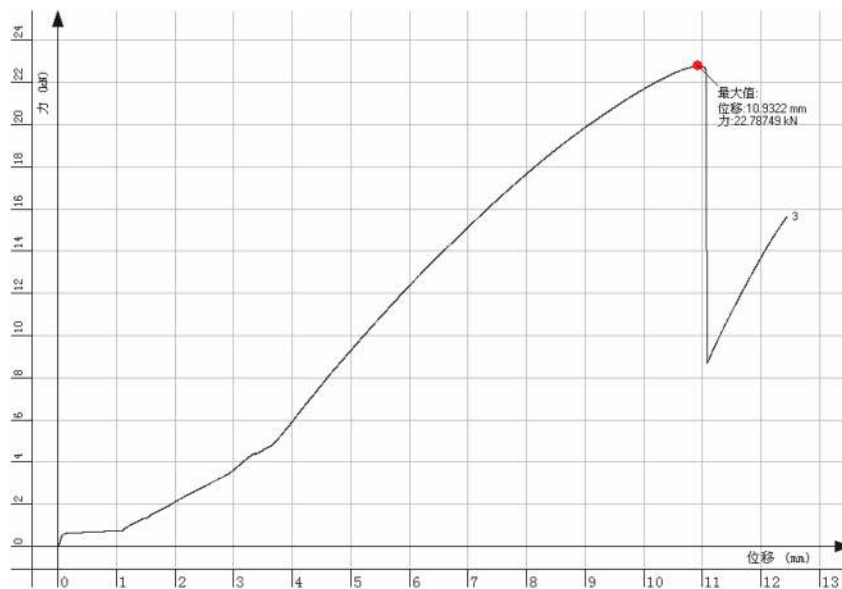
Test sketch:



Test Result:

Test item	Maximum force(KN)
Pull Test	22.79

Test curve:



Force-displacement curve

TEST REPORT

No. : XMIN1901000346ML

Date : Jan 24, 2019

Page: 3 of 3

Test Photo:



Photo 1: Sample



Photo 2: Before test



Photo 3: During the test



Photo 4: The sample after test

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

TEST REPORT

No. : XMIN1901000347ML

Date : Jan 24, 2019

Page: 1 of 3

CUSTOMER NAME:

ADDRESS:

Sample Name : SOLAR SUPPORT: BEAM CONNECTOR

Product Specification : L=80

Material and Mark : AL6005-T5

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : XMIN190100091CCM

Date of Receipt : Jan 15, 2019

Testing Start Date : Jan 15, 2019

Testing End Date : Jan 24, 2019

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd Xiamen Branch
Testing Center

Hank Li

Hank Li

Authorized signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overseas, available on request or accessible at <http://www.sgs.com/en/Products-and-Services.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone (86-755) 8387 5442, or email: CN.Document@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch Testing Center

No. 31 Jiangnan Road, Gangye Tech Industrial Zone, Xiamen, Fujian Province, China. 361101 | (86-592) 5791586 | (86-592) 5792380 | www.sgs.com
中国·福建·厦门·火炬(翔安)产业区翔安路31号 邮编: 361101 | (86-592) 5791586 | (86-592) 5792380 | sgs.china@sgs.com

TEST REPORT

No. : XMIN1901000347ML

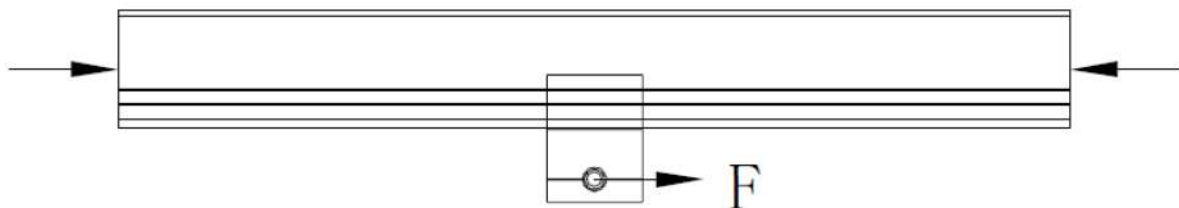
Date : Jan 24, 2019

Page: 2 of 3

Resistance slip test:

Test method: according to the client's requirements, fixed the sample on the test machine as the following sketch. Apply the force as a rate of 5mm/min till slipped. Determine the maximum force.

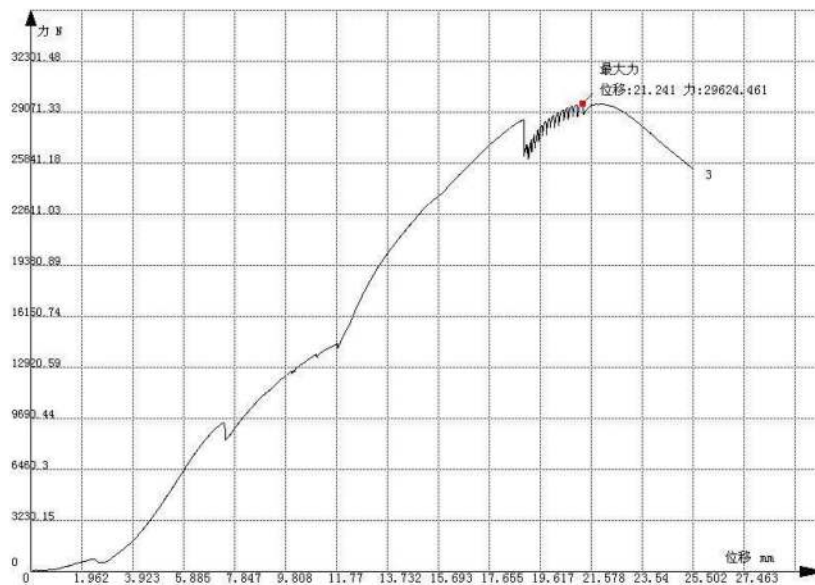
Test sketch:



Test Result:

Test item	Maximum force(KN)
Resistance slip test	When the force reaches 29.62KN, the specimen not slip and the load-bearing beam deforms

Test curve:



Force-displacement curve

TEST REPORT

No. : XMIN1901000347ML

Date : Jan 24, 2019

Page: 3 of 3

Test Photo:



Photo 1: Sample



Photo 2: Before test



Photo 3: During the test



Photo 4: The sample after test

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC 厦门分公司
检验检测专用章
Inspection & Testing Services
Xiamen Branch Testing Centre-Materials Laboratory

No.31 Xianghong Road, Xiang'an Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5761588 f (86-592) 5765380 www.sgsgroup.com.cn
中国·福建·厦门·火炬(翔安)产业区翔虹路31号 邮编:361101 t (86-592) 5761588 f (86-592) 5765380 e sgs.china@sgs.com

TEST REPORT

No. : XMIN1901000349ML

Date : Jan 24, 2019

Page: 1 of 3

CUSTOMER NAME:

ADDRESS:

Sample Name : SOLAR SUPPORT: BEAM CONNECTOR+PILLAR+BASE

Product Specification : L=120&□50×50&L=140

Material and Mark : AL6005-T5

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : XMIN190100093CCM

Date of Receipt : Jan 15, 2019

Testing Start Date : Jan 15, 2019

Testing End Date : Jan 24, 2019

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd Xiamen Branch
Testing Center

Hank Li

Hank Li

Authorized signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions. If any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone (86-755) 8387 1443, or email: CN.Check@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch Testing Center (Xiamen Branch)

No. 11 Xinghe Road, Xinghe Technology Zone, Xiamen, Fujian Province, China 361101 | (86-592) 5791586 | (86-592) 5791586 | www.sgs.com
中国·福建·厦门·湖里 (海沧) 产业园区翔安路11号 邮编: 361101 | (86-592) 5791586 | (86-592) 5791586 | sgs.china@sgs.com

TEST REPORT

No. : XMIN1901000349ML

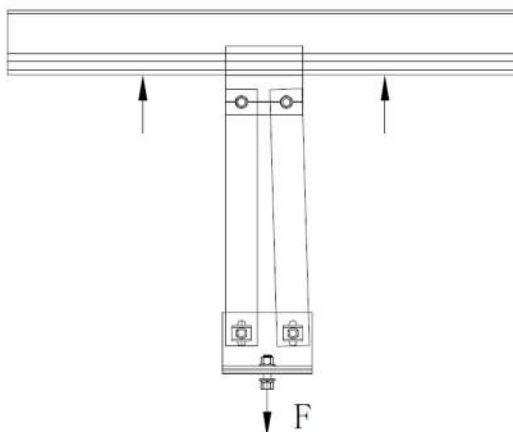
Date : Jan 24, 2019

Page: 2 of 3

Pull test:

Test method: according to the client's requirements, fixed the sample on the test machine as the following sketch. Apply the pull force as a rate of 5mm/min till destruction. Determine the maximum force.

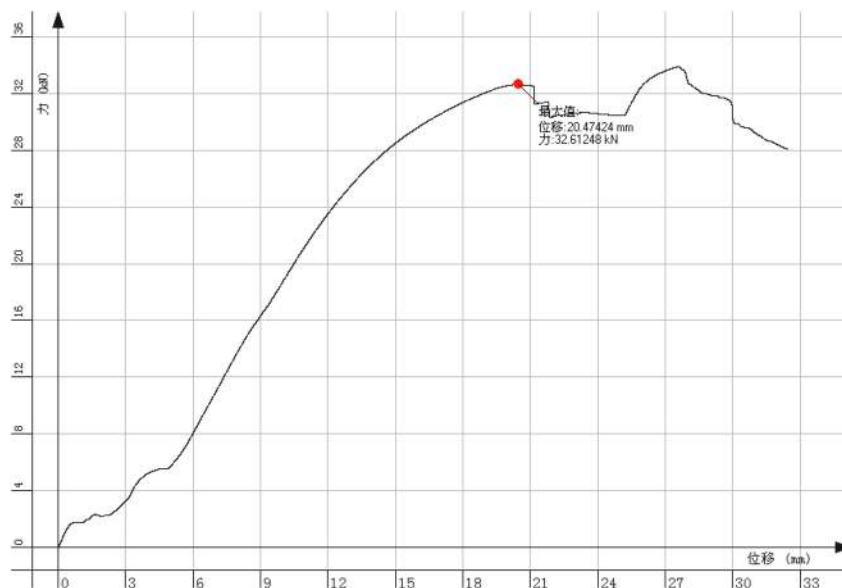
Test sketch:



Test Result:

Test item	Maximum force(KN)
Pull Test	32.61

Test curve:



Force-displacement curve



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC 检测技术有限公司
Xiamen Branch Testing Centre-Materials Laboratory

No.31 Xianghong Road, Xiang'an Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5761588 f (86-592) 5765380 www.sgsgroup.com.cn
中国·福建·厦门·火炬(翔安)产业区翔虹路31号 邮编:361101 t (86-592) 5761588 f (86-592) 5765380 e sgs.china@sgs.com

TEST REPORT

No. : XMIN1901000349ML

Date : Jan 24, 2019

Page: 3 of 3

Test Photo:



Six places:
28N •m torque

Photo 4: The sample after test

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

TEST REPORT

No. : XMIN1803001772ML

Date : Apr 03, 2018

Page: 1 of 3

CUSTOMER NAME:

ADDRESS:

Sample Name : MIDDLE CLAMP

Product Specification : L40

Material and Mark : AL6005-T5

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : XMIN180300552CCM

Date of Receipt : Mar 27, 2018

Testing Start Date : Mar 27, 2018

Testing End Date : Apr 03, 2018

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd Xiamen Branch
Testing Center

Hank Li

Hank Li

Authorized signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.cn/sgs/sgs-conditions-of-service> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.cn/terms-and-conditions-for-electronic-documents>. Attention is drawn to the limitation of liability, indemnification and jurisdiction clauses defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not constitute parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone (86-755) 8337 1443, or email: CN.Doncheck@sgs.com

No.21 Nanping Road, Nanping Industrial Zone, Xiamen, Fujian Province, China 361101 | (86-592) 5768857 | (86-592) 5768886 | www.sgs.com.cn
中国·福建·厦门·湖里区·产业区南平路21号 邮编: 361101 | (86-592) 5768857 | (86-592) 5768886 | sgs.china@sgs.com

TEST REPORT

No. : XMIN1803001772ML

Date : Apr 03, 2018

Page: 2 of 3

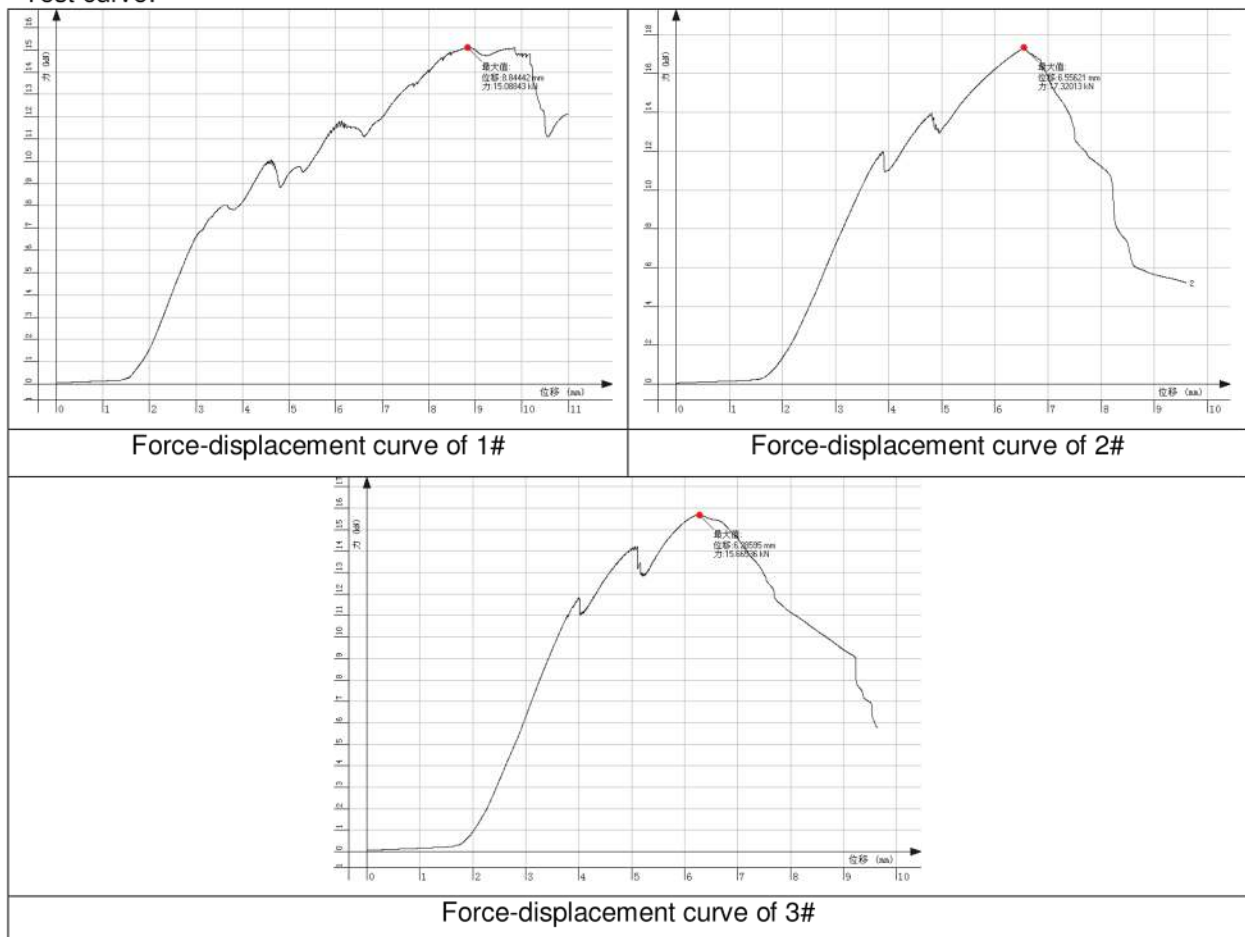
Pull test:

Test method: according to the client's requirements, fix the sample on the test machine. Apply the pull force as a rate of 5mm/min till destruction. Determine the maximum force.

Test Result:

Sample No.	Maximum force (kN)
1#	15.09
2#	17.32
3#	15.67

Test curve:



SGS-CSTC Zhengzhou Technical Services Co., Ltd.
Xiamen Branch Testing Center commercial construction Material Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.31 Xianghong Road, Xiang'an Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5765857 f (86-592) 5765380 www.sgs.com.cn
中国·福建·厦门·火炬(翔安)产业区翔虹路31号 邮编:361101 t (86-592) 5765857 f (86-592) 5765380 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

TEST REPORT

No. : XMIN1803001772ML

Date : Apr 03, 2018

Page: 3 of 3

Test Photo:



Photo 1: Samples before test



Photo 2: before loading



Photo 3: destroyed



Photo 4: the samples after the test

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.31 Xianghong Road, Xiang'an Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5765857 f (86-592) 5765380 www.sgsgroup.com.cn
中国·福建·厦门·火炬(翔安)产业区翔虹路31号 邮编:361101 t (86-592) 5765857 f (86-592) 5765380 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

TEST REPORT

No. : XMIN1804002487ML

Date : Apr 27, 2018

Page: 1 of 6

Sample Name : SOLAR MOUNTING SYSTEM

Material and Mark : AL6005-T5

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Date of Receipt : May 11, 2017

Testing Start Date : May 11, 2017

Testing End Date : May 17, 2017

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co. , Ltd Xiamen Branch
Testing Center



Hank Li

Authorized signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.cn/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.cn/Terms-and-Conditions/Terms-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction (as defined herein). Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions. If any. The Company's sole responsibility is to its Client and this document does not constitute parties to a transaction from extending all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone 86-755 8387 1442, or email: CN.Detectlab@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch Testing Center (Authorized Laboratory)

No. 21 Xianghong Road, Xiang'an Tenth Industrial Zone, Xiamen, Fujian Province, China: 361101 t: (86-802) 5791588 f: (86-802) 5792380 www.sgs.com.cn
中国·福建·厦门·大厝（翔安）产业园区翔安路31号 邮编: 361101 t: (86-802) 5791588 f: (86-802) 5792380 e: sgs.china@sgs.com

TEST REPORT

No. : XMIN1804002487ML

Date : Apr 27, 2018

Page: 2 of 6

Pull test:

Test method: according to the client's requirement, fixed the sample on the test machine, the M8 bolts fasten by 12N.m torque, the M10 bolts fasten by 24N.m torque. Loading the force as a speed of 3mm/min till destroyed. Record the maximum force and the displacement under maximum force.

Test result:

No.	Sample name	Maximum force (kN)	Displacement under maximum force (mm)	Destroyed location
1#	End clamp	7.09	10.29	See photo3 and photo 4
2#	Middle clamp	6.89	7.93	See photo7 and photo 8
3#	Beam 1	10.46	9.18	See photo11
4#	Beam 2	9.52	11.19	See photo14

Note: This test report is an English version of test report No.: XMIN1705003007ML dated: May 26, 2017 issued by SGS, this report is for reference only.

Test photo:



Photo 1: End clamp



Photo 2: During the test



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.cn/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.cn/Terms-and-Conditions/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction (as defined herein). Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not constitute parties to a transaction from assuming all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone 86-755 8387 1442 or email: CN.Docs@sgs.com

No.31 Xianghong Road, Xiang'an Test Industrial Zone, Xiamen, Fujian Province, China. 361101 t: (86-802) 5791588 f: (86-802) 5792380 www.sgs.com.cn
中国·福建·厦门·大厝（翔安）产业园区翔虹路31号 邮编: 361101 t: (86-802) 5791588 f: (86-802) 5792380 e: sgs.china@sgs.com

TEST REPORT

No. : XMIN1804002487ML

Date : Apr 27, 2018

Page: 3 of 6



Photo 3



Photo 4



Photo 5: Middle clamp



Photo 6: During the test

TEST REPORT

No. : XMIN1804002487ML

Date : Apr 27, 2018

Page: of 6



Photo 7



Photo 8



Photo 9: Beam 1



Photo 10: during the test



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/sgs/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/sgs/Terms-and-Conditions/Terms-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not constitute parties to a transaction from extending all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone 388-7251 8387 1442, or email: CN.Doocheeb@sgs.com

No.21 Xianghong Road, Xiang'an Test Industrial Zone, Xiamen, Fujian Province, China 361101 t: (86-802) 5791588 f: (86-802) 5792380 www.sgs.com.cn
中国·福建·厦门·大埕（翔安）产业园区翔虹路21号 邮编: 361101 t: (86-802) 5791588 f: (86-802) 5792380 e: sgs.china@sgs.com

TEST REPORT

No. : XMIN1804002487ML

Date : Apr 27, 2018

Page: 5 of 6



Photo 11



Photo 12 : Beam 2



Photo 13: during the test



Photo 14

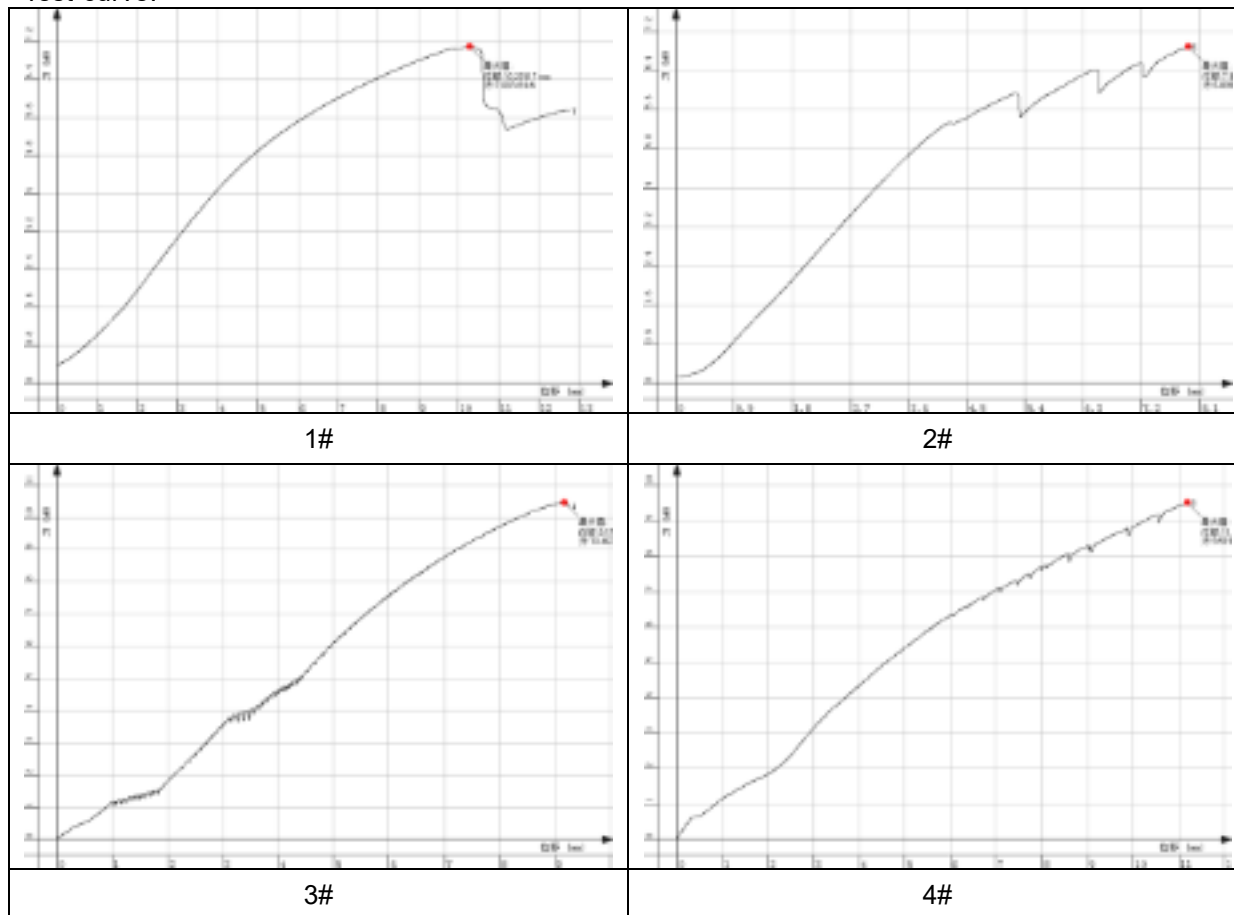
TEST REPORT

No. : XMIN1804002487ML

Date : Apr 27, 2018

Page: 6 of 6

Test curve:



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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.cn/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.cn/Terms-and-Conditions/Terms-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not constitute parties to a transaction from extending all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone 366-7551 8387 1442, or email: CN.Doocheeb@sgs.com

SGS China (Shanghai) Inspection & Testing Co., Ltd.
Korea Branch Testing Service Center Laboratory

No. 21 Xiangrong Road, Xiangyin Test Industrial Zone, Jiamen, Fujian Province, China 361101 t: (86-592) 5791588 f: (86-592) 5792380 www.sgschina.com.cn
中国·福建·厦门·大厝（翔安）产业园区翔安路31号 邮编: 361101 t: (86-592) 5791588 f: (86-592) 5792380 e: sgs.china@sgs.com

Member of the SGS Group (SGS SA)

TEST REPORT

No. : XMIN2107008206ML

Date : Jul 30, 2021

Page: 1 of 3



Sample Name : AL6005-T5 SAMPLE

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Date of Receipt : Jul 29, 2021

Testing Start Date : Jul 29, 2021

Testing End Date : Jul 30, 2021

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd Xiamen Branch
Testing Center



Hank Li
Authorized signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/sgs/terms-and-conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Deliverables at <http://www.sgs.com/sgs/terms-and-conditions/terms-electronic.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not constitute parties to a transaction from assuming all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone (86-755) 8187 1888, or email: CN_Doccheck@sgs.com

No.31 Sanggong Road, Xianghe Tech Industrial Zone, Xiamen, Fujian Province, China. 361101 | (86-592) 5781598 | (86-592) 5780388 | www.sgs.com.cn
中国·福建·厦门·大埕 (翔安) 产业园区检测中心 | 邮编: 361101 | (86-592) 5781598 | (86-592) 5785388 | sgs.china@sgs.com

TEST REPORT

No. : XMIN2107008206ML

Date : Jul 30, 2021

Page: 2 of 3

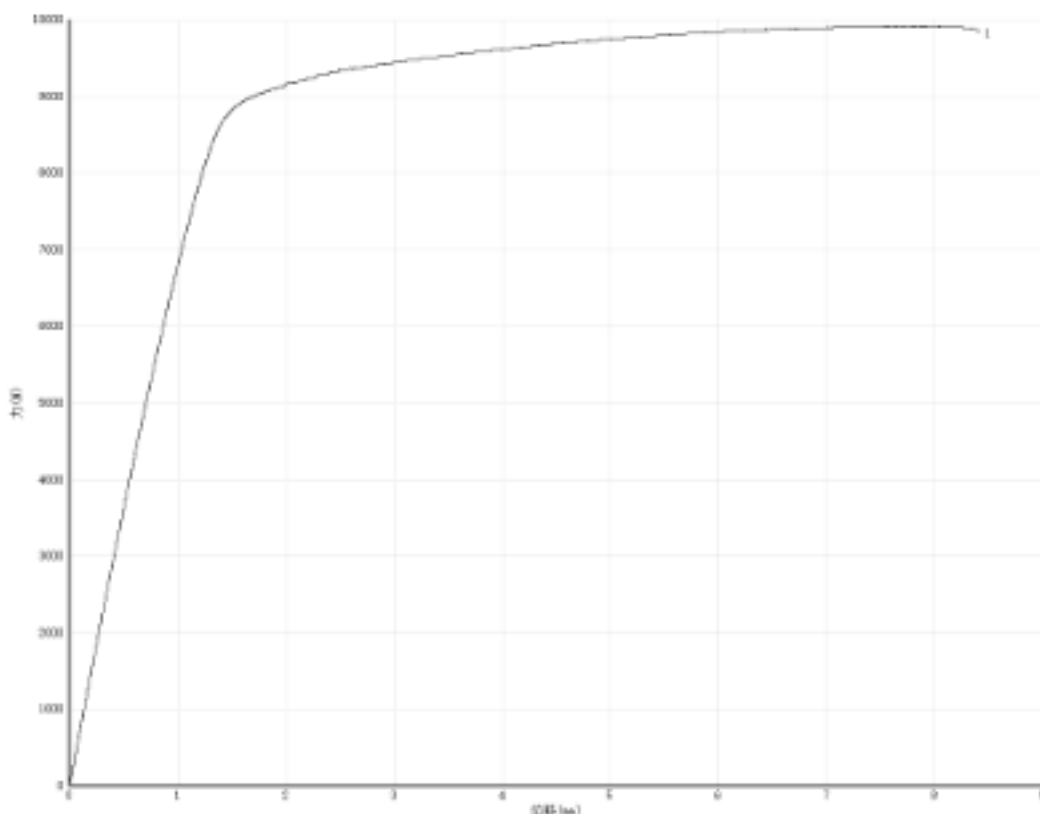
Tensile Test:

Test Method: GB/T 228.1-2010

Test item	Specimen type	Tensile strength (R_m) (MPa)	Proof strength ($R_{p0.2}$) (MPa)	Elongation after fracture(A_{50mm}) $L_0=50mm$ (%)
Result	Rectangular specimen $b_0=25mm$	289	256	12.0

Note: specimen machined by client.

Force-displacement curve :



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/test/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/test/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not constitute parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone (86-755) 8187 1888, or email: CN_Docscheck@sgs.com

No.31 Jiangong Road, Xianghe Textile Industrial Zone, Xiamen, Fujian Province, China. 361101 | (86-592) 5781598 | (86-592) 5780388 | www.sgs.com
 中国·福建·厦门·大埕(翔安) 产业园区翔安路31号 | 邮编:361101 | (86-592) 5781598 | (86-592) 5780388 | sgs.china@sgs.com

TEST REPORT

No. : XMIN2107008206ML

Date : Jul 30, 2021

Page: 3 of 3

Original Sample Photo:



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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/sgs/terms-and-conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Deliverables at <http://www.sgs.com/sgs/terms-and-conditions/terms-and-conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not constitute perfect to a transaction from assuming all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone (86-755) 8187 1888, or email: CN_Doccheck@sgs.com

No. 31 Sanggong Road, Xianglin Text Industrial Zone, Xiamen, Fujian Province, China 361101 | (86-592) 5781598 | (86-592) 5780388 | www.sgs.com.cn
中国·福建·厦门·大坪（翔安）产业园区翔安路31号 | 邮编: 361101 | (86-592) 5781598 | (86-592) 5780388 | sgs.china@sgs.com

TEST REPORT

No. : XMIN1901000348ML

Date : Jan 24, 2019

Page: 1 of 3

CUSTOMER NAME:

ADDRESS:

Sample Name : SOLAR SUPPORT: BEAM CONNECTOR&PILLAR&BASE

Product Specification : L=80&□50×50&L=110

Material and Mark : AL6005-T5

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : XMIN190100092CCM

Date of Receipt : Jan 15, 2019

Testing Start Date : Jan 15, 2019

Testing End Date : Jan 24, 2019

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd Xiamen Branch
Testing Center

Hank Li

Hank Li

Authorized signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8387 1949, or email: CN.Docs@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch Testing Center

No. 31 Xiangsheng Road, Xiangsheng Technology Zone, Xiamen, Fujian Province, China. 361101 | (86-592) 5791586 | (86-592) 5791580 | www.sgs.com
中国·福建·厦门·火炬 (翔安) 产业区翔安路31号 邮编: 361101 | (86-592) 5791586 | (86-592) 5791580 | sgs.china@sgs.com

TEST REPORT

No. : XMIN1901000348ML

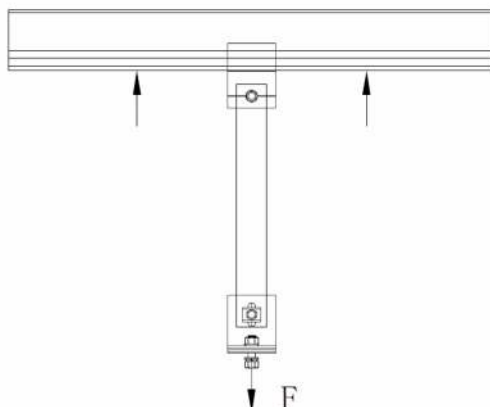
Date : Jan 24, 2019

Page: 2 of 3

Pull test:

Test method: according to the client's requirements, fixed the sample on the test machine as the following sketch. Apply the pull force as a rate of 5mm/min till destruction. Determine the maximum force.

Test sketch:



Test Result:

Test item	Maximum force(KN)
Pull Test	25.37

Test curve:



Force-displacement curve



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.31 Xianghong Road, Xiang'an Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5761588 f (86-592) 5765380 www.sgsgroup.com.cn
中国·福建·厦门·火炬(翔安)产业区翔虹路31号 邮编:361101 t (86-592) 5761588 f (86-592) 5765380 e sgs.china@sgs.com

TEST REPORT

No. : XMIN1901000348ML

Date : Jan 24, 2019

Page: 3 of 3

Test Photo:



Photo 1: Sample



Photo 2: Before test



Photo 3: During the test



Photo 4: The sample after test

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

CERTIFICATE

Conformity of the Factory Production Control

0035-CPR-1090-1.03429.TÜVRh.2024.002

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the following construction product:

Construction product	Structural components and kits for aluminium structures to EXC2 according to EN 1090-3
Intended use	for load-bearing structures in all types of buildings
CE-marking method	ZA.3.2 and ZA.3.4 acc. to EN 1090-1:2009+A1:2011
Manufacturer	produced by or for Huanbin Xiaobao Metal Products Co., Ltd. No. 1, Huanbin Xiaobao Road, Huanbin Xiaobao District, Huanbin Xiaobao City, Huanbin Xiaobao Province China
Manufacturing plant Production facility of the manufacturer	Huanbin Xiaobao Metal Products Co., Ltd. No. 1, Huanbin Xiaobao Road, Huanbin Xiaobao District, Huanbin Xiaobao City, Huanbin Xiaobao Province China
Confirmation	This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the harmonised standard EN 1090-1:2009+A1:2011 under system 2+ are applied, and that the factory production control fulfills all the prescribed requirements stated therein.
Date of first issue	10.07.2023
Next Surveillance audit	09.08.2025
Period of validity	This certificate will remain valid as long as the test methods and/or the factory production control requirements included in the harmonised standard used to assess the performance of the declared characteristics do not change, and the product and the manufacturing conditions in the plant are not modified significantly.
Remarks	see reverse
Place and date of issue	Cologne, 29.06.2024 Huanbin Xiao

Dipl.-Ing. Makowka
Head of certification body

Certificate number: 0035-CPR-1090-1.03429.TÜVRh.2024.002

Remarks	The Notified Body - 0035 TÜV Rheinland Industrie Service GmbH has performed the initial inspection of the/of manufacturing plant(s) and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control.
---------	--

General provisions

The conditions of the standard EN 1090-1:2009+A1:2011, from section B. 4.1 until including section B. 4.4, must be fulfilled.

The requirements of EN 1090-1:2009 + A1: 2011, section B. 4.3 are observed. These refer to the annual statements to be submitted in writing of the manufacturer to the Notified Body.

The General Terms and Conditions of the TÜV Rheinland Industrie Service GmbH apply in the currently valid version.

TEST REPORT

No. : XMIN2107008205ML

Date : Jul 30, 2021

Page: 1 of 3



Sample Name : Q235B SAMPLE

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Date of Receipt : Jul 29, 2021

Testing Start Date : Jul 29, 2021

Testing End Date : Jul 30, 2021

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd Xiamen Branch
Testing Center



Hank Li
Authorized signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/sgs/terms-and-conditions.aspx> and, for electronic format documents, subject to Service and Conditions for Electronic Deliverables at <http://www.sgs.com/sgs/terms-and-conditions/terms-and-conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone (86-755) 8187 1888, or email: CN.Docscheck@sgs.com

No.31 Sanggong Road, Xianghe Tech Industrial Zone, Xiamen, Fujian Province, China. 361104 | (86-592) 5781588 | (86-592) 5780388 | www.sgsgroup.com.cn
中国·福建·厦门·大埕 (海沧) 产业园区群建路31号 | 邮编: 361104 | (86-592) 5781588 | (86-592) 5780388 | s.gu.china@sgs.com

TEST REPORT

No. : XMIN2107008205ML

Date : Jul 30, 2021

Page: 2 of 3

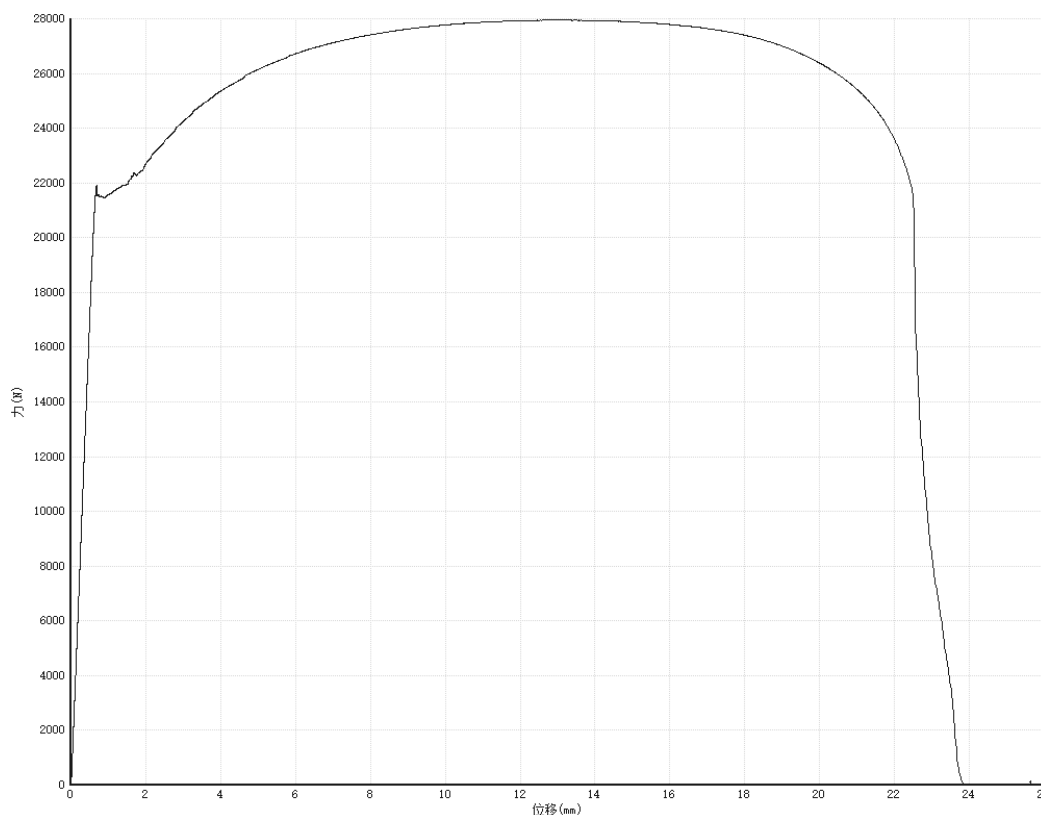
Tensile Test:

Test Method: GB/T 228.1-2010

Test item	Specimen type	Tensile strength (R_m) (MPa)	Upper yield strength (R_{eH}) (MPa)	Elongation after fracture(A) $L_0 = 5.65 \sqrt{S_0}$ (%)
Result	Rectangular specimen $b_0=25\text{mm}$	374	293	40.0

Note: specimen machined by client.

Force-displacement curve:



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.31 Xianghong Road, Xiang'an Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5761588 f (86-592) 5765380 www.sgs.com.cn
中国·福建·厦门·火炬(翔安)产业区翔虹路31号 邮编:361101 t (86-592) 5761588 f (86-592) 5765380 e sgs.china@sgs.com

TEST REPORT

No. : XMIN2107008205ML

Date : Jul 30, 2021

Page: 3 of 3

Original Sample Photo:



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

TEST REPORT

No. : XMIN2310002571ML02_EN

Date : 2023-11-06

Page: 1 of 3



CUSTOMER NAME:

ADDRESS:

Sample Name : SUS304 SAMPLE

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Date of Receipt : 2023-10-30

Testing Period : 2023-10-30 ~ 2023-11-03

Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

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

Hank Li
Authorized signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/terms-and-conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction clauses defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its elaboration only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties from a transaction from overruling all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8507 1440, or email: CN.DOCUMENT@SGS.COM

No. 51 Xuezhong Road, Xiang'an Tech Industrial Zone, Xiamen, Fujian Province, China 361101
中国·福建·厦门·火炬·翔安工业片区翔安路51号 邮编: 361101

Tel: (86-52) 579388 www.sgs.com.cn
Tel: (86-52) 579388 sgs.china@sgs.com



TEST REPORT

No. : XMIN2310002571ML02_EN

Date : 2023-11-06

Page: 2 of 3

1. Chemical Composition Analysis

Test Method: N:OES

Others:GB/T 11170-2008

Product Standard: GB/T 24511-2017

Element	C	Si	Mn	P	S	Cr	Ni	N
Req.,%	≤0.08	≤0.75	≤2.00	≤0.035	≤0.015	18.00 ~20.00	8.00 ~10.50	≤0.10
002Result ,%	0.03	0.50	1.42	0.030	<0.001	18.07	8.01	0.06
Conclusion	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Note: The requirement was extracted from type 06Cr19Ni10 (digital No.S30408) in GB/T 24511-2017.

2. Tensile Test

Test Method: GB/T 228.1-2021

Product standard: GB/T 24511-2017

Test item	Specimen type	Tensile strength (R_m) (MPa)	Proof strength ($R_{P0.2}$) (MPa)	Elongation after fracture(A) $L_o = 5.65\sqrt{S_0}$ (%)	Con.
Req.	-	≥520	≥220	≥40	-
002	Rectangular specimen $b_0=12.5\text{mm}$	694	323	59.0	Pass

Note: The requirement was specified in GB/T 24511-2017 type S30408 (06Cr19Ni10) .



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/terms-and-conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction clauses defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its issuance only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755)85071440, or email: CN.DOCUMENT@SGS.COM

No.51 Xuezhong Road, Xuezhong Tech Industrial Zone, Shimen, Fujian Province, China: 351101
中国·福建·厦门·海沧·海沧工业园区红礁31号 邮编: 351101

1 (86-50) 575388 www.sgs.com.cn
1 (86-50) 575388 sgs.china@sgs.com

Member of the SGS Group (SGS SA)



TEST REPORT

No. : XMIN2310002571ML02_EN

Date : 2023-11-06

Page: 3 of 3



Sample Photo

Unless otherwise stated, this report provides a declaration of conformity according to whether the test results are within the specified limits or specifications without considering the measurement uncertainty.

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/terms-and-conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction clauses defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8507 1442, or email: CN.DOCUMENT@SGS.COM

No. 31 Xiangyang Road, Xiang'an Tech Industrial Zone, Xiamen, Fujian Province, China 361101
中国·福建·厦门·火炬工业区翔安路31号 邮编: 361101

1 (86-50) 579388 www.sgs.com.cn
1 (86-50) 579388 sgs.china@sgs.com

Member of the SGS Group (SGS SA)