



RIEL DE ALUMINIO



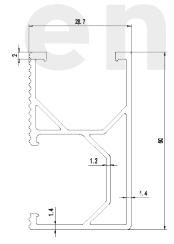
Propiedades mecánicas

	RIEL DE ALUMINIO
Material	Aluminio Serie 6000-T6
Resistencia a la tracción	273 MPa
Fuerza al rendimiento	254 MPa
Peso	0.689 kg/m
Terminado	Aluminio Anonizado

Propiedades seccionales

	RIEL DE ALUMINIO
Wx	2, 675.43 mm³
Wy	2, 315.03 mm³
Área sección transversal	254.29 mm ²

Unidad de medida: milímetros



Composición química Método de prueba: GB/T 3190-2008

Elemento	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
La regulación de 6005 en GB/T 3190-2008, %	0.60~ 0.90	≤0.35	≤0.10	≤0.10	0.40~ 0.60	≤0.35	≤0.10	≤0.10
Resultado, %	0.62	0.13	<0.001	0.003	0.56	0.001	0.010	0.014
Conclusión	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Notas:

• Sistema evaluado bajo UL2703





QUALITY MANAGEMENT SYSTEM CERTIFICATE

NO.08318Q30295R0M FUJIAN ZHANGZHOU ANTAI ALUMINUM MATERIAL CO.,LTD.

Registered Address: Guanshan Industrial Park, Wu'an Town, Chagntai Country,

Zhangzhou, Fujian, China

Audit Address: Guanshan Industrial Park, Wu'an Town, Chagntai Country, Zhangzhou, Fujian, China

Unified Social Credit Code: 91350625793766718L

System Area Assessed: Production of aluminium alloy industrial profiles, aluminium alloy building profiles (anodized profiles, electrophoretic coating profiles and powder spraying profiles)

Assessment standard:

GB/T 19001-2016/ ISO 9001:2015 Quality management systems-Requirements

Date of issue: Oct 30,2018 Valid period: Oct 30,2018-Oct 29,2021





中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C083-M







Fujian Southeast Standard Certification Center

General Director:

Notice: The certificate validity based on periodic supervision to maintain. The validity of the certificate can be validated by "annual confirmation notice or the web

"www.cnca.gov.cn" or "www.fjsec.com".

Registered No. of CNCA: CNCA-R-2002-083

Address: No.121, Shantoujiao, Ximenwai, Gulou District, Fuzhou, Fujian, China

Tel: +86 591-83762042 Fax: +86 591-83705673





AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant: ANTAI TECHNOLOGY CO., LTD Manufacturer: ANTAI TECHNOLOGY CO., LTD

Address: Guanshan industrial park, Changtai
Address: Guanshan industrial park, Changtai

County, Zhangzhou County, Zhangzhou

Country: China Country: China

Party Authorized To Apply Mark: Same as Manufacturer

Report Issuing Office: Intertek Testing Services Shanghai Limited

Control Number: 5020927 Authorized by:

for L. Matthew Snyder, Certification Manager



Intertek

This document supersedes all previous Authorizations to Mark for the noted Report Number.

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in his Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

Intertek Testing Services NA Inc. 545 East Algonquin Road, Arlington Heights, IL 60005 Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Standard(s):

Plate Photovoltaic Modules and Panels [UL 2703:2015 Ed.1+R:24Mar2021]

Product: PV MODULE RACKING/MOUNTING SYSTEM

Brand Name: ANTAI

Models: SOLAR ROOFTOP MOUNTING SYSTEM



CERTIFICATE

Antai Technology Co., Ltd.

30F, W Square, 1801 Huandao East Road, Siming District, Xiamen, China

is authorized to provide the product(s) mentioned below with the mark as illustrated:



Description of product(s) (details see Annex 2):

Fixed Metal Mounting Bracket for Photovoltaic (PV) Modules

It is certified by **TÜV NORD CERT GmbH** that the product(s) described above has(have) been assessed according to the certification program mentioned below and found in compliance with the requirements of below specified certification fundamental(s). This certification is based on evaluation results as documented in test report(s) referenced below and production site(s) audit results as documented in factory inspection report(s) referenced in Annex 1. This certificate is valid in conjunction with these quoted report(s).

Certification program:

P33-VA-01 Rev. 02 / 04.20

Certification fundamental(s):

P33.3-AA-01 Rev. 00

Remark:

N/A

Registered no.:

44 780 21 406749 - 193

Manufacturer and factory(-ies):

See Annex 1

Report no.:

492011803.001

File no.:

PVP06027/21B

Valid from: 2021-10-08

Valid until: 2026-10-07

Essen, 2021-10-08

Ahame Wes

TÜV NORD CERT GmbH Certification Body Balance of System (BOS) for Photovoltaics

TÜV NORD CERT GmbH

Langemarckstraße 20 45141 Essen

www.tuev-nord-cert.de

prodcert@tuev-nord.de

Please also pay attention to the information stated overleaf.



ANNEX

Annex 1, Page 1 of 1

to Certificate registration no. 44 780 21 406749 - 193

Manufacturer:

Antai Technology Co., Ltd.

30F, W Square, 1801 Huandao East Road, Siming District,

Xiamen, China

Factory(-ies):

Factory:

Antai Technology Co., Ltd.

Guanshan Industrial Park, Changtai County,

Zhangzhou, China

Factory inspection report no.: 862010568.001

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.

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TÜV NORD CERT GmbH Certification Body Balance of System (BOS) for Photovoltaics

TÜV NORD CERT GmbH

Langemarckstraße 20 45141 Essen

Essen, 2021-10-08

www.tuev-nord-cert.de prodcert@tuev-nord.de



ANNEX

Annex 2, Page 1 of 1

to Certificate registration no. 44 780 21 406749 - 193

Description of product(s):

Model type(s):

Fixed Metal Mounting Bracket for Photovoltaic (PV) Modules

Main material:

Aluminum

Dimension:

See drawing

Profile coating thickness:

≥10µm

Coating material:

Ambient temperature:

-40°C - 85°C

Equipment mobility:

Fixed

Connection to the mains:

Permanent connection

Environmental category:

Roof

Project location:

Rated load:

Snow load: 0.8kN/m2, Wind load: 0.9kN/m2

Altitude:

N/A

Grounding mode:

N/A

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Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.

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TÜV NORD CERT GmbH Certification Body Balance of System (BOS) for Photovoltaics Essen, 2021-10-08

TÜV NORD CERT GmbH

Langemarckstraße 20 45141 Essen

www.tuev-nord-cert.de

prodcert@tuev-nord.de



TEST REPORT

No.: XMIN2007006893ML

Date: Jul 31, 2020

Page: 1 of 2



CUSTOMER NAME: FUJIAN ZHANGZHOU ANTAI ALUMINUM CO.,LTD

ADDRESS: GUANSHAN INDUSTRIAL PARK, CHANGTAI COUNTRY, ZHANGZHOU

CITY, CHINA

ALUMINUM PROFILE Sample Name Material and Mark Aluminum profile 6005

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 28, 2020 **Testing Start Date** Jul 28, 2020 **Testing End Date** Jul 31, 2020

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



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.: XMIN2007006893ML

Date: Jul 31, 2020

Page: 2 of 2

Tensile Test:

Test Method: GB/T 228.1-2010

	1001110411041 0271 22011				
Toot item Chesimen time		Tensile strength Proof strength		Elongation after	
Test item	Specimen type	(R _m)	(R _{P0.2})	fracture(A _{50mm})	
		(MPa)	(MPa)	L _o =50mm (%)	
	Rectangular				
Result	Specimen	273	254	9.0	
	b ₀ =12.5mm				

Original Sample Photo:



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

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Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 830

No.31 Xianghong Road, Xiang/An Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5761588 f (86-592) 5765380 www.s.gsgroup.com.cn 中国·福建·厦门·火炬(翔安)产业区期虹路31号 邮编:361101 t (86-592) 5761588 f (86-592) 5765380 e s.gs.china@sgs.com

Member of the SGS Group (SGS SA)

Test Location
Test Procedure

Testing Lab

8.0 Test Summary

Evaluation Period 2022.08.31 to 2022.11.8 Project No. 220801628SHA
Sample Rec. Date 29/08/2022 Condition Prototype Sample ID. 0220829-54
Test Location Building No.2, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province, China

Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.

The following tests were performed on the rooftop solar mounting system of ANTAI TECHNOLOGY CO.,LTD to evaluate the product.

Test Description	Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels [UL 2703:2015 Ed.1+R:24Mar2021]
Bonding Path Resistance Test Before Humidity Test	13
Humidity Test	18
Bonding Path Resistance Test After Humidity Test	13
Bonding Conductor Test	22
Mechanical load test	21

8.1 \$	Signati	ures
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A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.

Completed by:	Zach Zhou	Reviewed by:	Ken Gu
Title:	Engineer	Title:	Reviewer
Signature:	Zach Zhon	Signature:	1100



Issued: 27-Mar-2023

Revised: None

Issued: 27-Mar-2023 Revised: None

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

- 1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
- 2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issued by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, "Conforms to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Conforms to ANSI/UL Std. XX."

For Canadian standards, the words "Certified to CAN/CSA Standard CXX No. XX." shall be used, or abbreviated, "Cert. to CAN/CSA Std. CXX No. XX."

Can be used together when both standards are used.

If all standards on the ATM have the same standard title, the shared title or its abbreviation may be used in place of the examples above. Example: "Medical Electrical Equipment" or "MEE"; "Information Technology Equipment" or "ITE"; "Audio/Video Information And Communication Technology Equipment" or "A/V ICTE".

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use. The facsimile need not have a control number. A control number will be issued after signed Certification Agreements have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

- 1. Conformance of the manufactured product to the descriptions in this Report.
- 2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
- 3. Manufacturing changes.
- 4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

- 1. Correct the non-conformance.
- 2. Remove the ETL Mark from non-conforming product.
- 3. Contact the issuing product safety evaluation center for instructions.