广东凤铝铝业有限公司

三水基地: 广东省佛山市三水河口民营开发区　　南海基地: 广东省佛山市南海大沥凤池工业区
电话 :0757-87679720 / 87679729 / 87679737 / 87679739　　传真 :0757-87679727 / 87679735

Website:www.fenglu-alu.com
Sanshui Base address: Hekou Development Zone, Sanshui, Foshan, Guangdong, China, 528133
Nanhai Base address: Fengchi Industrial Zone, Dali, Nanhai, Foshan, Guangdong, China, 528231

凤铝铝业
FENGLU ALUMINIUM



工业铝型材
INDUSTRY
ALUMINIUM PROFILE

大品牌 更放心


2005年
凤铝成为中国航天事业合作伙伴
成为首批荣获“中国航天专用铝材”称号的铝型材企业
In 2005, Fenglu became the first enterprise involved in the space industry and gained the title of"China Aerospace Special aluminium"

China Aluminium Industry Leader

中国铝型材行业领航者

世界500强战略合作伙伴
产、学、研、用产业链完整

广东凤铝铝业有限公司成立于1990年，是集铝合金研发、生产与销售等为一体的综合性大型民营铝型材企业。拥有南海和三水两个大型生产基地，是中国铝加工行业的领军企业。

凤铝是目前中国铝型材行业设备先进、技术水平高、产品系列全的龙头企业之一。产品共有1000多个系列、80000多个品种，广泛应用于建筑、交通、机械、化工、电子电气、船舶、军工、航空航天等领域，产品远销欧美等100多个国家和地区。

Established in 1990, Guangdong Fenglu Aluminum Co., Ltd is a large-scale comprehensive private-owned aluminum profile manufacturer integrating R & D, production and sales, having Nanhai-based and Sanshui-based production centers.

Fenglu is one of leading enterprises in China's aluminum profile industry equip with advanced equipment, high technology and have complete product series. There are more than 1000 series and 80,000 kinds of products, which are widely applied to building, transportation, machinery, chemical engineering, electronics & electrical, vessels, military and aerospace etc. Products are popular all over the world.

凤铝大量引进美、德、英、意、日等国家先进的铝型材生产设备与检验检测设备。先后通过了ISO9001：2008、ISO14001：2004、OHSAS18001：2007和CQC产品节能认证、挪威船级社DNV认证、军工质量管理体系、TS16949法立德国际质量认证组织认证、国际铁路行业IRIS经营管理体系认证、国家认可实验室（CNAS）、Qualicoat、Qualanod等认证，先后荣获“采用国际标准产品标志证书”，“有色金属产品实物质量金杯奖”、“中国航天专用铝材”、“中国航天事业合作伙伴”、“中国名牌产品”、“中国驰名商标”、“中国建筑铝型材排名第一”、“中国工业铝挤压材十强企业”、“国家级企业技术中心”等荣誉。

With state-of-the-art production line and inspection devices from U.S., Germany, Britain, Italy and Japan, Fenglu have passed ISO9001:2008, ISO14001:2004, OHSAS18001:2007, CQC energy-saving certification, DNV, certification of military quality system and IRIS management system, TS16949, CNAS, Qualicoat & Qualanod etc, got the honor of “Adopting International Standard Product Marking Certificate”, “Quality Trophy of Nonferrous Metal Products”, “China Aerospace Special Aluminium”, “China Aerospace Partner”, “China Top Brand”, “China well-known trademark”, “National Technical Center”, “China Top 10 Aluminum Industrial Manufacturer ” and won the First Place in building industry.



UNSHAKABLE PURSUIT
OF EXCELLENCE

追求卓越 矢志不渝

凤铝铝业，民族企业的骄子，作为中国铝型材行业的领航者，中国工业铝挤压材四强企业，以“中国航天专用铝材”的品质，专注、专业研发制造应用广泛的各种工业铝型材……

凤铝，一个品牌，一份信念，一种追求……

凤铝，26年，谱写了一曲矢志不渝、自主创新、成绩卓著的发展篇章，建立了高端的品牌形象，并赢得了良好的市场口碑。

Fenglu Aluminum, a pioneer of China's aluminium industry and one of China top 4 aluminum profile manufacturer specializing in providing high quality industry profiles.

A brand, a belief and a commitment, Fenglu has been devoted to building a brand image and winning market recognition for 26 years.

企业文化

专：专注、专业于铝合金研发和制造，在产业领域内做深做细，在产业规模与品牌上做强做大；
优：品质优秀是凤铝屹立不倒的根基；
快：满足市场需求快、生产交货快是凤铝最突出的特色；
严：管理规范是企业健康、持续发展的根本保障。

Enterprise Culture

Professional: Focus on R & D and manufacturing of aluminum alloy by setting foothold in the field and strengthening industry scale and brand image;

Excellence: The excellent quality of Fenglu is the foundation of long lasting in the market.

Fast: Meeting market demands and quick delivery is the key feature of Fenglu;

Strict: The norm management is fundamental to a corporation's healthy & steady development.

企业经营理念

品质理念：质量是凤铝价值和尊严的起点；
研发理念：市场需求是凤铝研发的根本方向和指针；
制造理念：追求产业专业化和产品多元化；
人才理念：人才是企业发展的核心竞争力。

Business Principle

Quality: Quality is the starting point of Fenglu's value and honor,

R & D: Market demand directs R &D;

Manufacturing: Striving for industry professionalism and products diversification

HR concepts: Human resources is the core competitiveness of enterprise development.

企业核心价值观

诚信：企业立足之本
创新：企业发展之源
责任：企业修身之德
共赢：企业生存之道

The core values of the enterprise

QHONESTY: the foothold of the enterprise

INNOVATION: the developing source of the enterprise

RESPOSIBILITY: the moral request of the enterprise

WIN-WIN: the rules of surviving in business

企业愿景

成为中国铝型材行业的领导品牌；
成为全球有影响力的铝合金产品专业研发制造商与服务商；
成为世界上最具竞争力和被社会公认的卓越品牌企业。

Enterprise Vision

Our vision is to become a leading brand in China's aluminum industry, a professional developer and service provider with global influence, and an outstanding brand with high competitiveness and social recognition.





凤铝大事记 FENGLU'S MILESTONE

2005年，荣获“中国航天专用铝材”称号，成为行业首家涉足航天领域的企业；

2006年，首批通过“中国军工质量体系认证”，正式进入军工领域；

亚洲最长跨度的13.5米卧式氧化、电泳型材生产线落户凤铝；

自主研发的“环保型无铅易切削6043铝合金”成为国内首家以中国研制身份向国际标准技术委员会成功注册的变型铝及铝合金国际牌号；

2007年，主持修订强制性国家标准——“铝合金建筑型材能耗等级标准”；

荣获“中国名牌产品”称号；

“无铅易切削6xxx铝合金新材料产业化”被列为国家火炬计划项目；

2008年，荣获“中国驰名商标”称号；

成立院士工作室、博士后科研工作站；

荣获中国合格评定国家认可委员会颁发的“实验室认可证书”；

2009年，获中国有色金属工业协会颁发的“AAA级企业信用等级”证书；被认定为“国家级企业技术中心”、“省级重点实验室”；

2012年，荣获中国有色金属加工工业协会颁发的“中国建筑铝型材二十强企业”（排名第一）证书；

并获“中国工业铝挤压材十强企业”证书；

2014年，华南最大、国际一流的万吨挤压生产线顺利投产；

2015年，成立工业材事业部，全面实现规范化运营。

2016年，成立凤铝高端门窗（系统）事业部、高端门窗（系统）销售公司；

成立凤铝装饰材事业部、装饰材销售公司。

In 2005, became the first enterprise involved in the space industry and gained the title of "China Aerospace Special aluminium"

In 2006, one of the enterprises of the first batch stepping into the military industry and was awarded the certificate of China military quality system.

Fenglu set up the horizontal anodizing & electrophoresis production line with treating the longest profile in Asia, up to 13.5meter.

A new alloy developed by Fenglu independently "Environmental friendly unleaded cutting- free aluminium alloy 6043 " became the first alloy registered in International Organization for Standardization by a Chinese enterprise.

In 2007, presided the revision of "Energy-Consuming Level of Architectural Aluminum Profile", a compulsory national standard.

won the title of "China Top Brand"

the industrialization of unleaded free-cutting aluminum advanced material 6XXX was included in China's Torch Program.

In 2008, won the title of "China Well-known Trademark".

set up academician workstation and post-doctoral research workstation.

won the Laboratory Accreditation Certificate issued by China National Accreditation Service for Conformity Assessment.

In 2009, won Business Credit Rating AAA Certificate issued by China Non-Ferrous Metals Industry Association.

In 2012, won the certificate of China's Top 20 Architectural Profile Manufacturers (Ranking 1st) and the certificate of China Top 10 Aluminum Industrial Manufacturers issued by China Non-Ferrous Metals Industry Association.

In 2014, the world- leading aluminum extrusion production line with the largest production capacity 10000-ton was successfully put into production.

In 2015, Aluminium Industry Division established.

In 2016, Window & door Division and Aluminium Decoration Division established.



世博会工程 The World Expo Shanghai Botanical Garden

CHANGELESS
CHASE AFTER BRAND
品牌之路 不变初心

大音希声，一种撼世气度的超然境界；大象无形，一种深邃厚重的非凡气魄；

凤铝，从无到有、从弱到强，直到今天；

中国建筑铝型材行业排名第一①、中国工业铝挤压材十强企业②、国家级企业技术中心③；

26年，风云变幻，然而，凤铝孜孜以求，出精品、铸品牌的初心，从未改变。

With an extraordinary vision and magnificent eyesight, Fenglu become the No.1 in China Building Industry①, China Top 10 Industrial Aluminum Manufacturer② and National Technical Center③.

备注：①、②中国有色金属加工工业协会2012年统计数据；③国家发展改革委、科学技术部、财政部、海关总署、国家税务总局2009年公告内容

Remarks:①②Statistical data 2012 from China Non-Ferrous Metals Industry Association; ③ Release 2009 from NDRC, Ministry of Science and Technology, Ministry of Finance, General Administration of Customs and State Administration of Taxation.



亚运会重点工程 The Asian Game Project - Bicycle Gymnasium Center

ENTERPRISE
HONOR

企业荣誉

中国驰名商标 国家级技术中心 | 中国名牌 | 环保节能型材

凤铝铝业大量引进美、德、英、意、日等国家最先进的铝型材生产设备与检验检测设备。先后通过了IS09001:2008、ISO 14001:2004、OHSAS18001:2007和CQC产品节能认证、挪威船级社DNV认证、军工质量管理体系、TS16949法立德国际质量认证组织认证、国际铁路行业IRIS经营管理体系认证、Qualicoat、Qualanod等认证，荣获“采用国际标准产品标志证书”、“有色金属产品实物质量金杯奖”等荣誉；2005年被首批授予“中国航天专用铝材”、“中国航天事业合作伙伴”称号；2008年，凤铝被认定为“国家认可实验室（CNAS）”；2009年，被认定为“国家级企业技术中心”、“省级重点实验室”。

With the state-of-the-art production line hhand inspection devices from U.S., Germany, Britain, Italy and Japan, Fenglu have passed ISO9001:2008, ISO14001:2004, OHSAS18001:2007, CQC energy-saving certification, DNV, certification of military quality system and IRIS management system, TS16949, Qualicoat & Qualanod etc; got the honor of “Adopting International Standard Product Marking Certificate” and “Quality Trophy of Nonferrous Metal Products”. In 2005, Fenglu was the first batch being awarded the title of “China Aerospace Special Aluminium”, “China Aerospace Partner”; In 2008, gain the title of CNAS ; In 2009, was rated as”National Technical Center” and “Provincial Key Laboratory”.



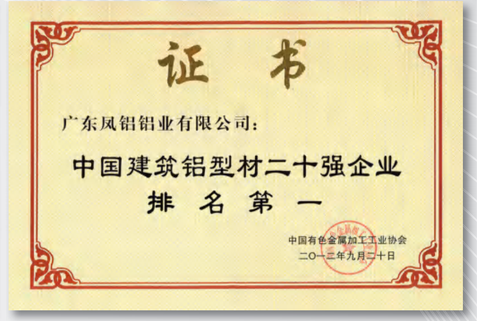






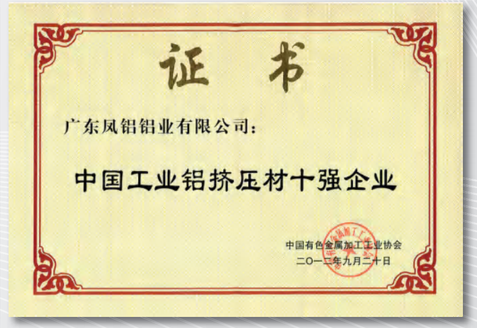













CERTIFICATE
质量管理体系认证证书
广东凤铝铝业有限公司
GB/T 19001-2008/ISO 9001:2008


CERTIFICATE
环境管理体系认证证书
广东凤铝铝业有限公司
GB/T 24001-2004/ISO 14001:2004


职业健康安全管理体系
认 证 证 书
广东凤铝铝业有限公司
GB/T 28001-2011/OHSAS 18001:2007


武器装备质量管理体系认证证书
佛山市三水凤铝铝业有限公司
GJB 9001B-2009

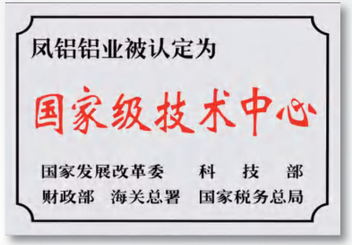

中国合格评定国家认可委员会
实验室认可证书
CNAS L3907


DET NORSKE VERITAS
APPROVAL OF MANUFACTURER
CERTIFICATE
FoshanSanshui Fenglu Aluminium Co. Ltd.
Foshan, Guangdong, China


Authorization
to use the quality sign
QUALICOAT
Foshan Sanshui Fenglu Aluminium Co., Ltd
Licence number: 3402


Authorization
to use the quality sign
EURAS
Qualanod
Foshan Sanshui Fenglu Aluminium Co., Ltd
Licence number: 2702


ABS
CERTIFICATE OF
ALUMINUM MILLS
FACILITY AND PROCESS APPROVAL
FOSHAN SANSHUI FENGLU ALUMINIUM CO., LTD


风铝铝业被认定为
国家级技术中心
国家发展改革委 科 技 部
财政部 海关总署 国家税务总局


高新技术企业
证书
企业名称：佛山市三水凤铝铝业有限公司
证书编号：GR201544000977
发证时间：2015年10月10日
有 效 期：三年
批准机关：


中国工业铝材挤压材十强企业
广东凤铝铝业有限公司
中国有色金属加工工业协会
二〇一二年九月二十日


中国驰名商标
凤 铝®
FENGLU
中华人民共和国国家工商行政管理总局
二00八年四月


中国有色金属工业科学技术奖
证 书


中国有色金属工业科学技术奖
证 书



华南最大、国际一流的万吨挤压生产线，助力凤铝跻身国内高性能工业材、装饰材第一梯队企业　The world-class 10000-ton extrusion production line in South China,.

CONTINUALLY RENEWAL
OF PRODUCTION FACILITIES

生产装备　日新月异

凤铝，一场革新——不拘一格的发展革新。

2013年，凤铝投巨资引进万吨挤压生产线，以及与之配套的7500吨、5500吨挤压生产线、大规格铝合金圆棒油滑热顶超声波铸造生产线、超大截面模具设计与加工设备、“高、精、尖”深加工生产线等也陆续投产，已拥有高性能工业材研发、生产、销售为一体的完整的运作体系；凤铝已跻身国内高性能工业材第一梯队企业。

精品迭出，精益求精。今天的凤铝，已成为中国铝型材行业技术实力最强、产品系列最全、质量最可靠、交货周期最短的大型铝型材生产企业之一。

Innovations

In 2013, the 10,000-ton extrusion production line was introduced together with 7500/5500-ton extrusion production line, large-size aluminum alloy round bar ultrasonic foundry production line, over sized section mold design, processing unit and state-of-the-art processing production line were put into production. Fenglu stepped into China's top-tier aluminium manufacturers.

Fenglu is one of the large-scale aluminum profile manufacturer with most powerful technological strength, the most complete product line, and the most reliable quality and shortest delivery cycle.

PERFECTING
PRODUCT SYSTEM

产品体系　日臻完善

凤铝工业材产品共分十多个类别：航空航天类、国防军工类、轨道交通类、汽车类、桥梁类、船舶类、新能源动力类、机械电气类、电子电器类、绿色建筑材料类、旅游文体类等。广泛应用于轨道交通、机械化工、电子电气、船舶、军工、航空航天等领域，凤铝产品远销欧美等100多个国家和地区；

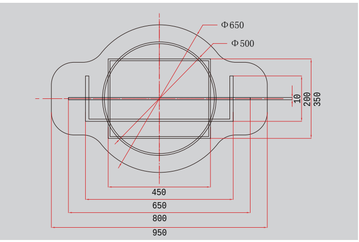
凭借卓越的产品质量和市场口碑，凤铝，赢得了世界范围内的尊重和声誉。

Fenglu industrial profile cover different product series, eg: aerospace, defense, transportation, auto, bridge, vessel, new energy & power, machinery, and electronics, architecture, travel & sports etc, which widely apply to transportation, machinery, electrical & electronic, vessel, military and aerospace. Products are hot sales over 100 countries and regions.

With outstanding products and market recognition, Fenglu enjoy good respect and reputation all around the world.

凤铝万吨机可挤压型材截面大小

10000-ton press extruded profiles







FIVE-AXIS
CNC MACHINING CENTER

五轴联动CNC加工中心

五轴加工中心，X、Y、 Z、 C、 A轴均由CNC控制，用于加工大型铝型材；
可对型材的五个面进行切割、钻铣及攻丝加工；
刀具库配有18个刀位，可在加工区域的任意位置上进行换刀。

Use for large-sized aluminum profile, the five-axis machining center is capable of cutting, milling and tapping 5 faces profile.

Its tool magazine equipped with 18 tool locations is capable of changing tools at any location in processing area.



刀具库18个刀位，可满足各种切割需求
Tool library with 18 cutting location can meet all kinds of cutting requirements.



高精度探针自动检测公差误差
Hith precision probe detects tolerance error automatically.



DOUBLE-HEAD
CNC CUTTING MACHINE

数控双头切割机

数控双头切割机，右锯头带移动装置，移动装置带有动力定位。切割头气动倾斜（90°，45°或者22.5°）。可通过手动设置定位装置获得其他特殊角度；

配备了水平和垂直夹具，安全防护装置，刀具喷雾润滑装置；

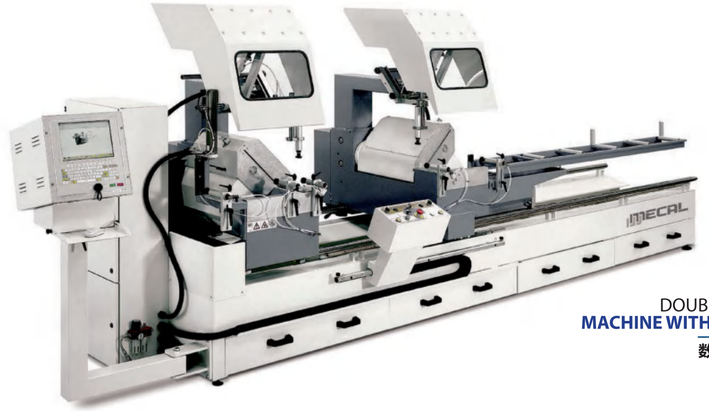
可完成超长、超短料切割。

Double-head CNC cutting machine features its right-hand saw head equipped with shifters having dynamic positioning, its cutter capable of pneumatically inclining 90°, 45° or 22.5°, with other angles available by aid of manual setup of positioning device.

Equipped with horizontal & vertical jigs, safety device, and tool mist lubrication device.

it is capable of accomplishing over length, ultra-short cutting.





DOUBLE-HEAD CNC CUTTING
MACHINE WITH ANGLE CONTROLLED

数控任意角数控双头切割机

4-AXIS HEAVY-DUTY
CNC MACHINING CENTER
四轴重型CNC加工中心



FULL-AUTOMATIC 5-AXIS
DOUBLE-HEAD CNC CUTTING MACHINE
全自动数控五轴双头切割机

全自动数控双头切割机，移动装置带有动力定位；切割装置可以倾斜，同时锯刀可以旋转，这样可以达到混合切割功能；

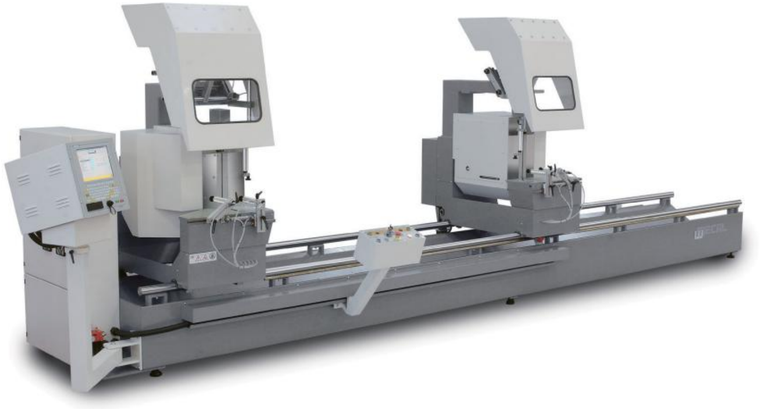
切割装置电动倾斜就是说带刷电机的齿轮箱在135°和22.5°之间切割；

单一切割，可记忆型材代码和数值；通过键盘，USB或者网络记录已计算的切割清单；操作和执行切割清单；根据客户、工作号、颜色、长度分类切割清单。

Full-automatic double-head CNC cutting machine features shifting unit equipped with dynamic positioning device, cutter device inclinable, saw blades rotatable to achieve hybrid cutting function.

Electric inclination of cutter device means that gearbox of brush motor cuts between 135° and 22.5°.

Single cutting memorizes profile code and value; saves calculated cutting lists via keyboard, USB or internet; operates and executes cutting lists; and classifies cutting lists as per customers, job numbers, colors and lengths.





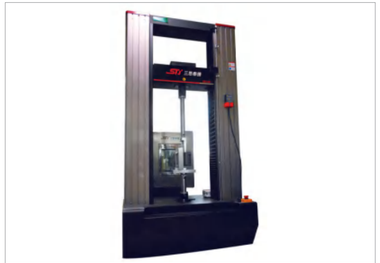
德国金相显微镜　Germany Metallography Microscope



德国斯派克光谱仪　Spectrometer



X射线衍射仪（X-Ray Diffractmeter）



高低温拉伸试验机（High－low temperature tensile testing machine）



以色列断面检测仪　（Israeli Cross-Section Detector）



疲劳试验机（Endurance testing machine）

FENGLU

ALUMINUM PROFILE

凤铝工业铝型材

航空航天 Special Profile for Aerospace



航空航天类产品技术含量非常高，凤铝以“创世界知名品牌，办国际一流企业”为宗旨，不断引进和运用国际先进设备和技术，向铝型材应用的高端领域进发，早在 2005 年就成为了“中国航天事业合作伙伴”，为我国航空航天工业提供特种铝合金型材，同时也为飞机客货运输及军用浮桥、直升机起降平台等提供了大量优质工业材。

With a mission of Creating A Famous Brand & Running Top-Ranking Enterprise, Fenglu keep up introducing and utilizing internationally-advanced equipment and technologies, advancing toward high quality aluminum profile. In 2005, Fenglu become national aerospace partner and provide high-qulity aluminum profile for China aerospace industry, as well as passenger/cargo airplanes, military pontoons, helicopter rising, landing platforms etc.

轨道交通 Transportation



工业铝型材因其固有的特性（重量轻、耐腐蚀、易回收等），为交通运输业的轻量化提供了传统钢制品无法比拟的优势。凤铝凭自身雄厚的实力率先掌握了该领域的相关先进生产技术，先后为包括高铁、汽车、火车、轮船等在内的交通工具提供了大量优质铝型材，为全球交通运输工具的铝化率提升及轻量化提高做出了贡献。

With its unique feature lightweight, anti-corrosion and easy recycle, aluminum profiles have incomparable advantages far beyond traditional steel products for transportation. Base on its solid strength, Fenglu have mastered the advanced production technology firstly, provide high quality aluminum profile for communication media including high-speed rail, vehicle, train and steamship which make great contribution to lightweight transportation in global range.

机械电气 Machinery and Electronic



随着经济全球化的发展，作为凤铝铝业产品的一个重要分支，机械电子类铝型材在凤铝铝型材产品中占有重要地位，主要用于机电产品的散热器、水冷电机壳、发动机零件、汽缸体、化工机械、石油机械、生产流水线等系列产品。

With the development of economic globalization, Fenglu aluminum profile of machinery & electronics category play an important role , which mainly used for heat sinks of electric &mechanical products, engine parts, cylinder blocks, chemicial machines, petroleum machines, production line etc.

绿色建筑材料 Architecture



凤铝绿色建筑材料类产品涉及：建筑模板、脚手架、智能遮阳等系列产品。铝合金模板是现代建筑施工的重要组件和理想的轻量化材料。为了适应现代建筑业及城市化的发展，对铝合金挤压生产的科学管理和技术创新提出了更高的要求，以铝代木、以铝代塑、以铝代钢是未来绿色建筑的发展方向。

Fenglu aluminium profile involves building templates, scaffolds, intelligent sunshades series. Aluminum template profile is an ideal lightweight material and important component of modern building machinery. Adapting to the development of modern building and urbanization, higher requirement on scientific management and technological innovation of extruded aluminum alloy in need deeply. Wood to Aluminiun, generation plastic to aluminium, steel to aluminium become the main development direction of green building.

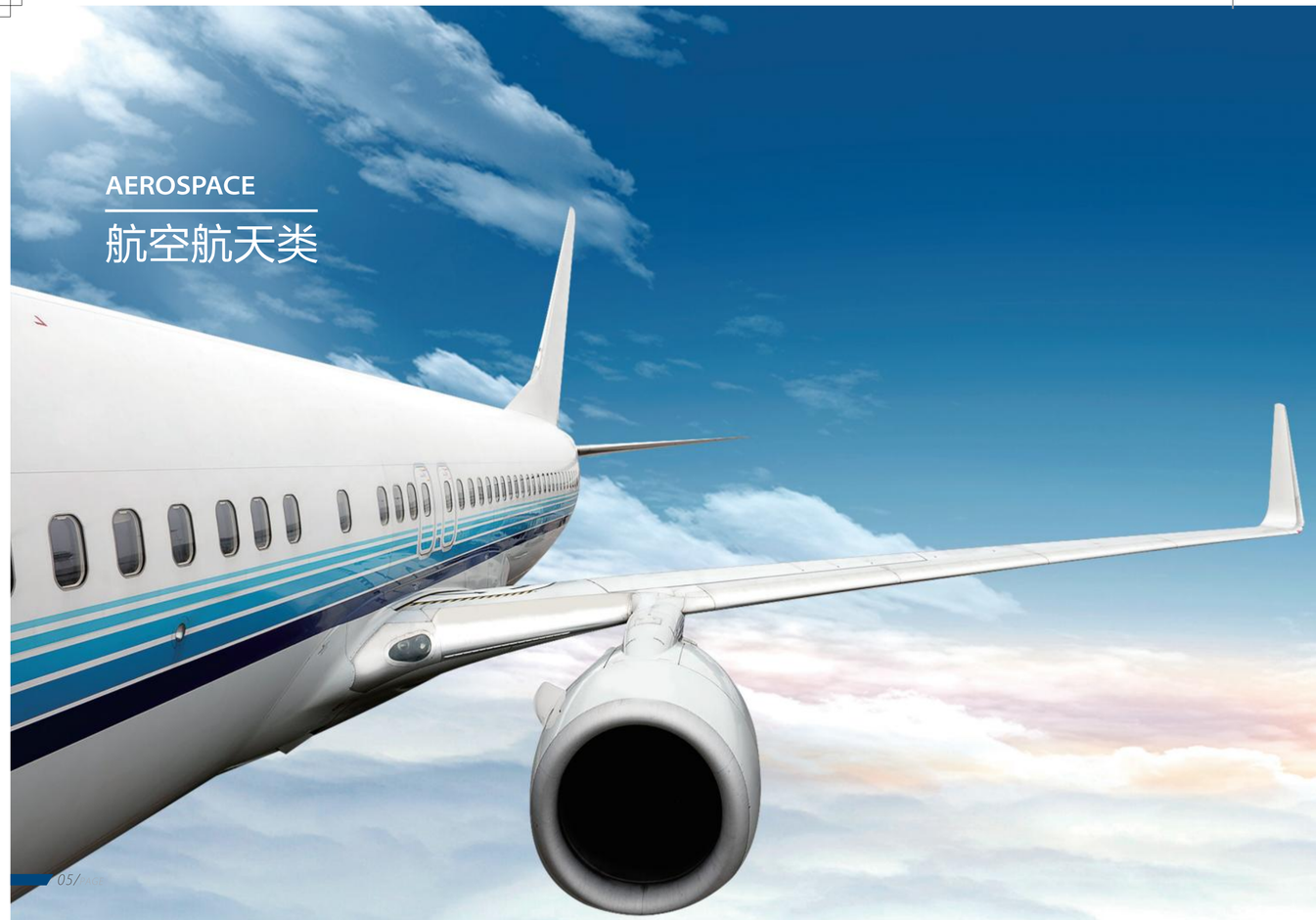
◆13.5米铝材应用实例 Application Case of 13.5m Profile



超长铝及铝合金氧化着色电泳生产线，可生产长度 13．5 米长的氧化着色电泳铝型材，填补了国内的空白。
The 13.5 meters anodizing & electrophoresis production lines are the great achievement in aluminum industry .

航天航空铝材 ◆
Special Aluminium Profile for Aerospace

AEROSPACE
航空航天类





凤铝的航空航天铝型材根据飞机不同的使用条件和部位，主要用了三种铝合金：即高强铝合金、耐热铝合金、耐蚀铝合金。高强铝合金主要用于飞机机身部件、发动机舱、座椅、操纵系统等。耐热铝合金零件主要用于靠近电动机的机舱、空气交换系统等。耐蚀铝合金具有足够高的性能指标，其强度、塑性、冲击韧性、疲劳性能和可焊性都很好。多年来，凤铝的大型铝型材一直是飞机、火箭等各种航天航空制造的优质供应商。

According to different service purpose , Fenglu aerospace-use aluminum profile is divided into 3 categories: high strength aluminum alloy, heatproof aluminum alloy, anti-corrosion aluminum alloy.

The high strength aluminum alloy is mainly used for aircraft component, engine compartment, seats and control systems; the heatproof aluminum alloy parts are mainly used for motor cabins and aircraft component, air exchange system; and the anti-corrosion aluminum alloy features higher performance indicators, excellent strength, plasticity, impact toughness, fatigue performance and weld-ability. Fenglu is a outstanding manufacturer for aerospace over the years.

航空航天类检测报告
Inspection Report



航空航天类铝材应用实例
Application Example of Aerospace





DEFENSE
& MILITARY
国防军工类

2005 年，凤铝铝业正式进入军工领域。随着现代军事科技的不断发展，促使各国对武器装备的性能提出了更高的要求。凤铝大型军用型材能够满足武器材料强韧化、轻量化、多功能化和高效化的高标准要求，促进我们国防军工（坦克、船舶、舰艇等）武器装备的强大。

In 2005, Fenglu Aluminum officially step into the military industry .With the development of the military technology, higher requirement on weaponry performance. Capable of meeting weaponry's higher requirement on toughening, lightweight, multifunction and high-efficiency, Fenglu large-size military profile is helpful for strengthening our national defense weaponry such as tanks, vessels and warships etc.

国防军工类检测报告
Inspection Report



国防军工类铝材应用实例
Application Example of Defense & Military





TRANSPORTATION

轨道交通类

凤铝高端工业材以轨道交通为起点驶入交通工具轻量化的蓝海。其铝型材具有质量轻、强度高、耐腐蚀等突出优点，在轨道交通领域的应用非常广泛。如：高铁、动车、轻轨、地铁、货车车厢等。

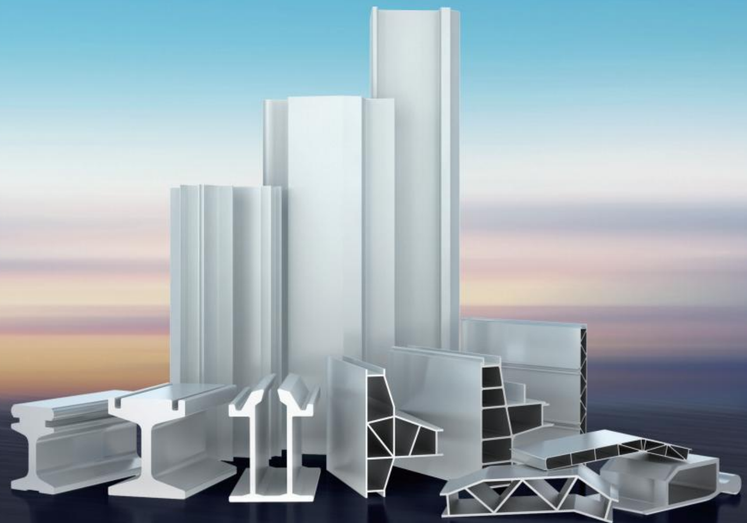
Thanks to its lightweight, high intensity and excellent anti-corrosion properties, Fenglu aluminum profile is widely applied to transportation field, such as high-speed rail, train, and light rail, metro and truck etc.

轨道交通类铝材应用实例 – 高铁
Application Example of Transportation - High Speed Rail



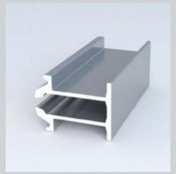
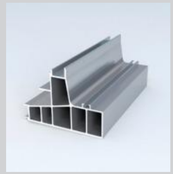
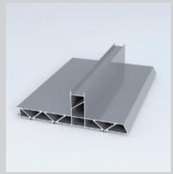
轨道交通类铝材应用实例 – 轻轨
Application Example of Transportation - Light Rail



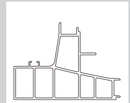
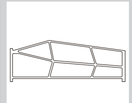


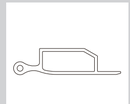
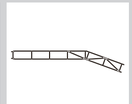
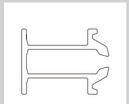
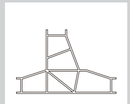


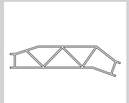
轨道交通类铝材应用实例
Application Example of Transportation

轨道交通类铝材图示
Transportation Profiles

轨道交通类检测报告
Inspection Report




AUTO
汽车类

近年来许多大型汽车公司的专家更加关注铝合金的冲压，并利用铝合金冲压件生产汽车车身。铝合金车身要比钢质车身轻 40%，从而降低了汽车的油耗。同时车身的耐腐蚀性能也大为提高，这极大程度地推进了铝型材在汽车制造业的使用。凤铝工业铝型材在全铝专用车、轿车、有轨电车、大巴、货车、集装箱、通信车、工程车等都有广泛的应用。

In recent years, aluminum stamped parts used in auto-body have been called much attention by many large-size auto makers. Aluminum auto-body is 40% lighter than steel auto-body, lowering the fuel consumption. Great improvement on corrosion resistance of auto-body greatly propels aluminum profile use in the auto field. Fenglu aluminum profile is widely used in whole-aluminum special vehicle, limousine, tramcar, bus, truck, container, communication vehicle and engineering vehicle.

汽车类铝材应用实例 – 汽车零件
Application Example of Auto - Auto componient



汽车类铝材应用实例 – 重型卡车
Application Example of Auto - Heavy truck





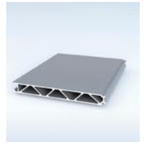


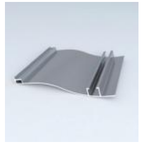


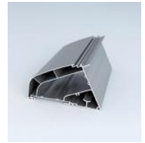


凤铝铝合金型材在汽车零部件制造领域得到了广泛运用，并稳定地扩大在汽车上的使用量。
Fenglu aluminum profile has been widely used in auto components and expanding use steadily.

汽车类铝材应用实例
Application Example of Auto





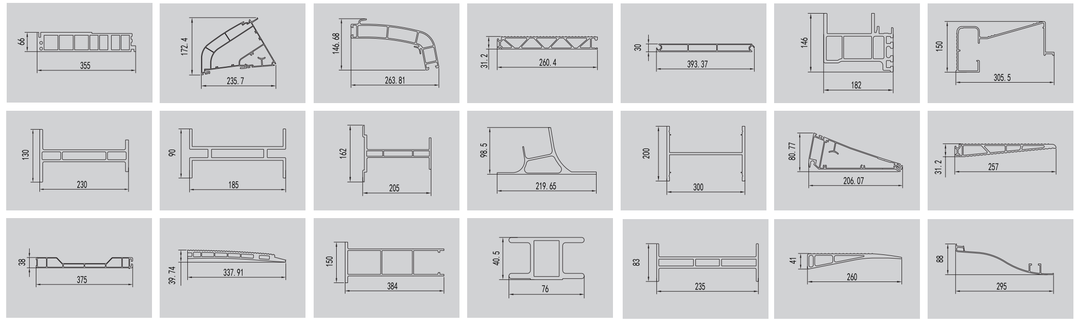




汽车类铝材检测报告
Inspection Report



汽车类铝材图示
Auto Profiles



BRIDGE

桥梁类

近年来铝合金结构桥梁兴起并得到广泛应用。凤铝在公路、桥梁、人行天桥、码头以及国际赛车场护栏、高速公路护栏等领域，用越来越多的工程实例证实了用搅拌摩擦焊接技术的铝合金带肋板型材密度低、强度高，有利于桥梁的减重，提高桥梁的负载能力。

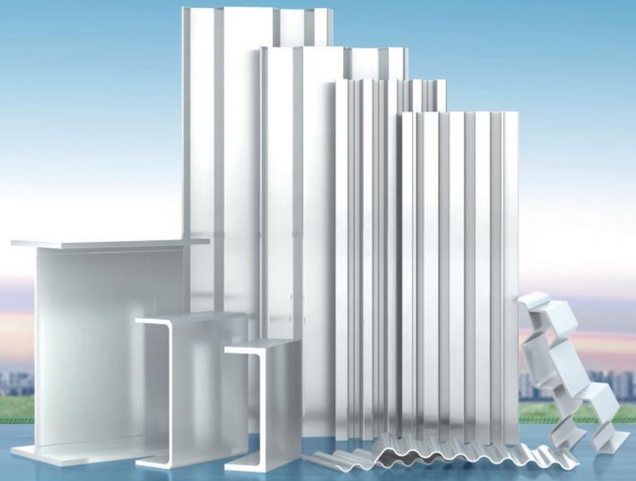
In recent years, the bridge of aluminum structure is widely used. More and more Fenglu aluminum profiles applied to highway bridges, passenger foot-bridge, docks, national circuit guardrails and expressway guardrails prove that aluminum profile with welding technology is helpful for reducing bridge weight and increasing the loading capacity because of its lower density and higher intensity.

桥梁类铝材应用实例 – 桥梁
Product Application Cases – Bridge



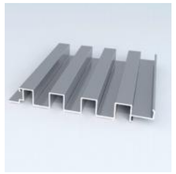
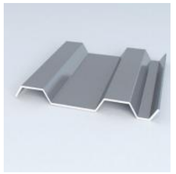
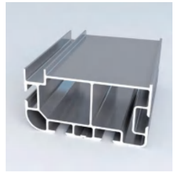
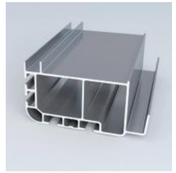
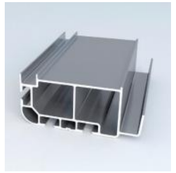
桥梁类铝材应用实例 – 人行天桥
Product Application Cases - Passenger foot-bridge







桥梁类铝材应用实例
Application Example of Bridge

桥梁类铝材检测报告
Inspection Report

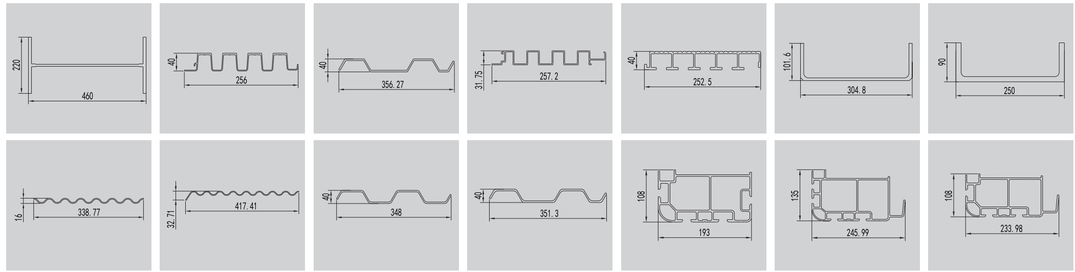

广东省质量监督铝型材检验站
检验报告

No: L16-WT1435


广东省质量监督铝型材检验站
检验报告

No: L16-WT1435

桥梁类铝材图示
Bridge Profiles



VESSEL

船舶类

凤铝专业生产船舶铝型材，对于快艇船体铝型材和高速船体铝型材，在保证足够强度和刚度的条件下，尽量减轻重量，并且具有良好的耐海水腐蚀性能和可焊性。凤铝船舶类产品有：高速快艇、游艇、客轮等所用铝型材。

Fenglu is specialized in producing aluminum profiles for vessel, such as yachts, and passenger liner etc. The profiles have good water corrosion resistance and weld-ability.

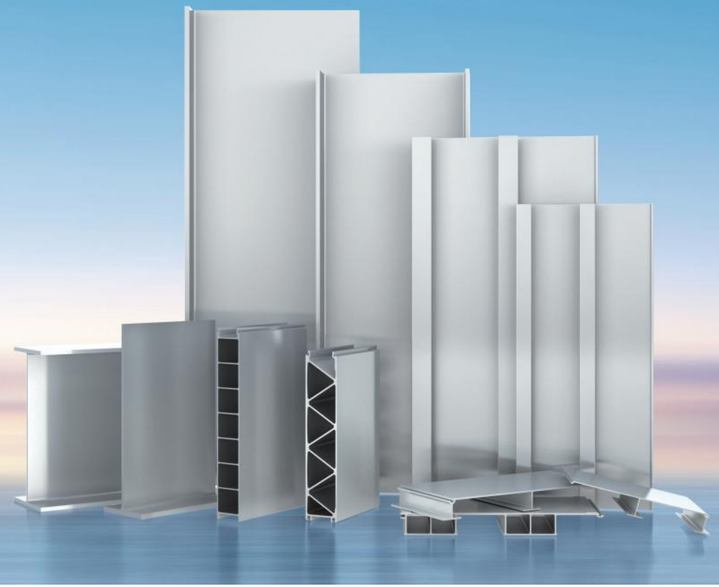
船舶类铝材应用实例 – 货轮
Application Example of Vessel- Cargo Ship



船舶类铝材应用实例 – 快艇
Application Example of Vessel - Yacht









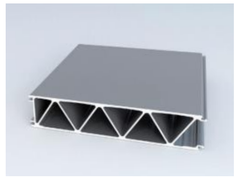


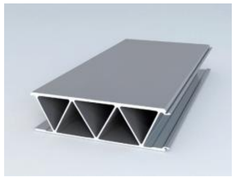


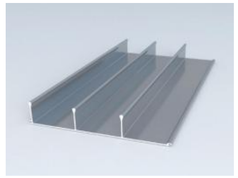


船舶类铝材应用实例

Application Example of Vessel









船舶类铝材检测报告

Inspection Report

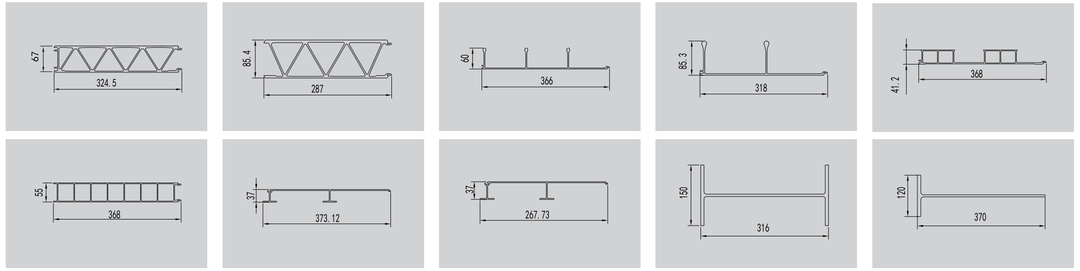


广东省质量监督铝型材检验站
检验报告

No: L16-WT1726

船舶类铝材图示

Vessel Profiles



NEW ENERGY
& POWER
新能源动力类

目前风铝工业材在新能源领域应用的有：太阳能、风力发电叶片、LED 灯等，作为行业领航品牌，风铝工业材在新能源领域将大有作为。

At present, Fenglu industrial profile apply to new energy & power field such as solar energy, wind power generation and LED lights. As a leading brand, Fenglu will expand its business in the new energy industry.

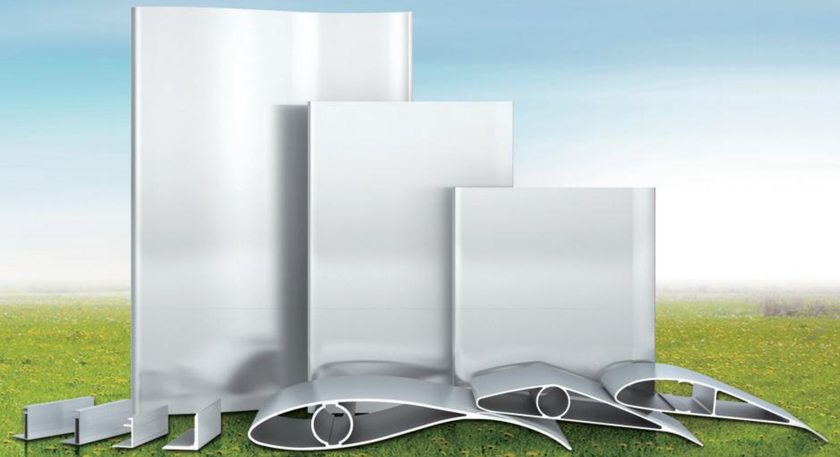
新能源动力类铝材应用实例 – 风力发电
Application Example of New Energy & Power –Wind Power Generation



新能源动力类铝材应用实例 – 太阳能集热板
Application Example of New Energy & Power – Solar Power Generation









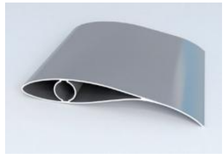


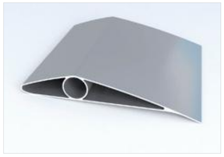


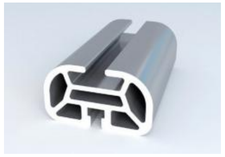


新能源动力类铝材应用实例

Application Example of - New Energy & Power

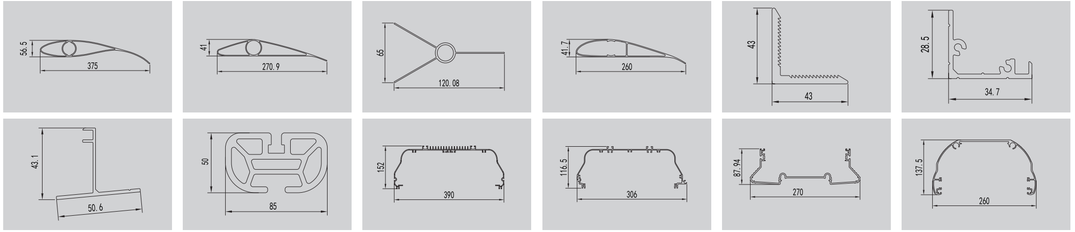






新能源动力类铝材图示

New Energy & Power Profiles



MACHINERY
& ELECTRICAL
机械电气类

凤铝铝业根据各种现代化机械的使用需要，为客户提供各种优质的工业异形型材，高精密的深加工、美观的产品表面。如：生产流水线、矿山机械、纺织机械、化工机械、印刷机械、石油机械、水冷电机壳等。

To meet the requirements of different machinery, Fenglu is committed to providing customers high-quality profiles, precision processed products, such as production lines, mining machines, textile machines, chemical machines, printing machines, petroleum machines and water cooling motor casings.

机械电气类铝材应用实例 – 机械臂
Application Example - Robot Arm



机械电气类铝材应用实例 – 生产机械
Application Example – Machine









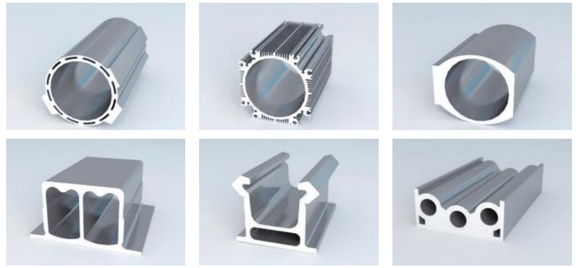






机械电气类铝材应用实例

Application Example of Machinery & Electrical



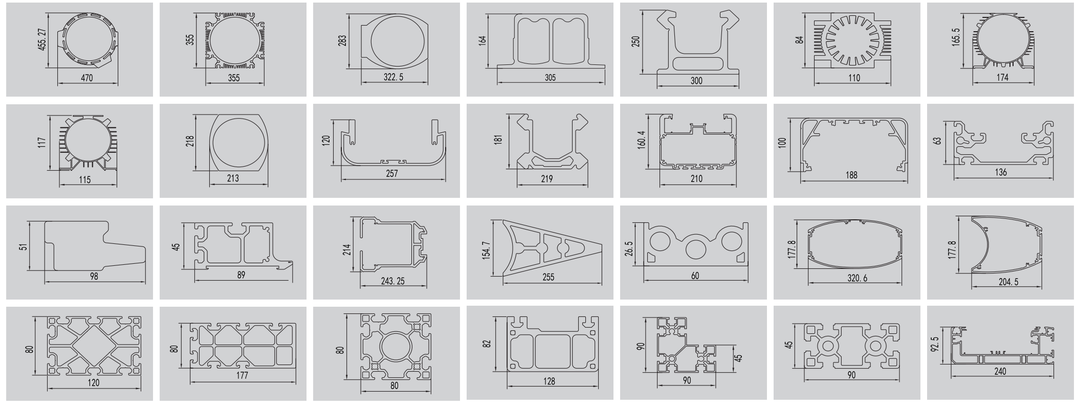
机械电气类铝材检测报告

Inspection Report



机械电气类铝材图示

Machinery & Electrical Profiles



ELECTRONICS
电子电器类



风铝工业材在电子电器方面的应用有：手机外壳、充电宝、音箱音响、显示器外壳、化工机械、印刷机械、石油机械、水冷电机壳等，耐腐蚀、运用寿命长。主要有以下几个优势：可进行各种表面处理、花色品种多、无焊点、装饰性强、美观耐用，能满足个性化需求；运用安全、承压高；份量轻、便于装置和转移；装置简略、修理便利；节能降耗、运用成本低。

Fenglu industrial profile apply to electronic & electrical including phone shell, charger, loudspeaker, display enclosure, chemical machinery, printing machinery, petrol-machinery, and water cooling motor casing, which have good anti-corrosion ability and long service life. Available for different surface treatments, it features various colors, nice decoration, durability which can meet personalized demands; safety, light weight, easy installment and maintenance, energy-saving, lower consumption and low cost of application.

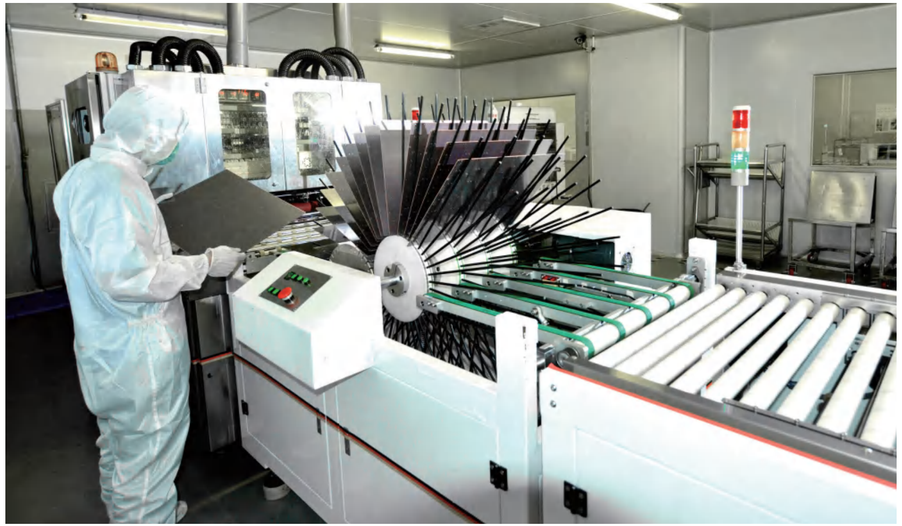
电子电器类铝材应用实例
Application Example of Electronics



电子电器类铝材应用实例
Application Example of Electronics







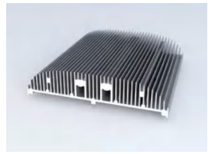


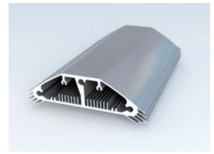


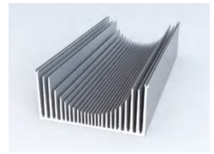


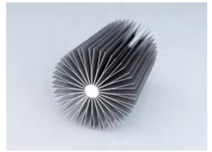
电子电器类铝材应用实例

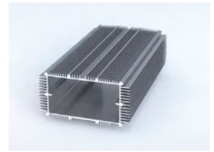
Application Example of Electronics

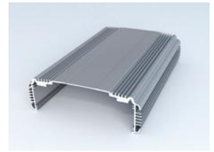












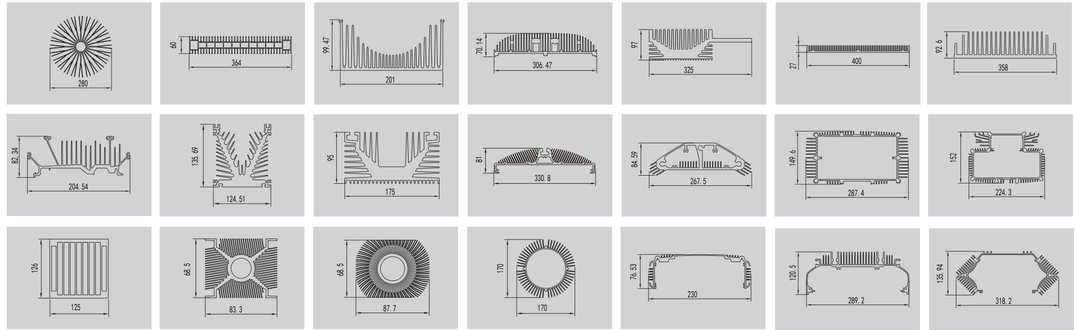
电子电器类铝材检测报告

Inspection Report



电子电器类图示

Electronics Profiles



ARCHITECTURE

绿色建筑材料类

凤铝绿色建筑材料类产品涉及：建筑模板、脚手架、智能遮阳等系列产品。铝合金模板是现代建筑施工的重要组件和理想的轻量化材料。 为了适应现代建筑业及城市化的发展， 对铝合金挤压生产的科学管理和技术创新提出了更高的要求，以铝代木、以铝代塑、以铝代钢是未来绿色建筑的发展方向。

Fenglu aluminium profile involves building templates, scaffolds, intelligent sunshades series etc. Aluminum template profile is an ideal lightweight material and important component of modern building machinery. Adapting to the development of modern building and urbanization, higher requirement on scientific management and technological innovation of extruded aluminum alloy in need deeply. Wood to Aluminiun, generation plastic to aluminium, steel to aluminium become the main development direction of green building.

绿色建筑材料类检测报告
Inspection Report





绿色帐篷及建筑铝模板应用实例

Application Example of Architecture - Temporary Tent & Aluminium Formwork



大型户外活动篷房 Outdoor Active Tent



户外展会篷房 Outdoor Exhibition Tent



绿色帐篷骨架 Tent Structure



独立帐篷 Temporary Tent



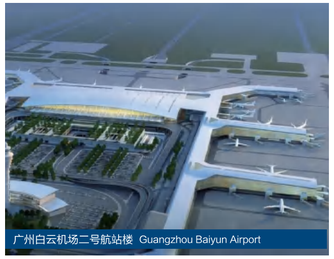
建筑铝模板 Building Formwork



香港戏曲中心 Hong Kong Opera Center



上海 F1 国际赛车场 Shanghai F1 International Circuit



广州白云机场二号航站楼 Guangzhou Baiyun Airport



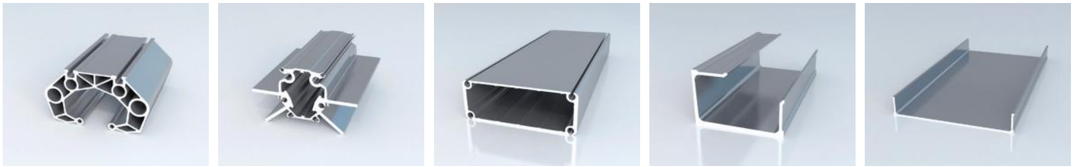
珠海歌剧院 Zhuhai Opera House



武汉天河机场 T3 航站楼 Wuhan International Airport

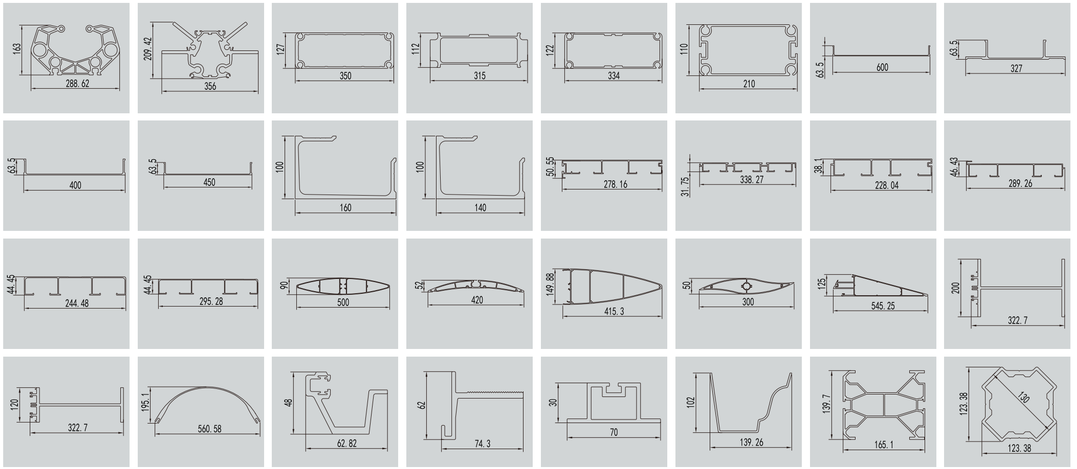
绿色建筑材料类铝材应用实例

Application Example of Architecture



绿色建筑材料类铝材图示

Architecture Profiles



TRAVEL
& SPORTS
旅游文体类

旅游文体类铝型材要求轻便、坚固，便于装置、携带、挪移。凤铝工业材在这一领域的应用非常广泛，如：高尔夫球标杆、滑雪杆、跳水板、拉箱拉杆、手推车、沙滩椅等。

Fenglu aluminum profile is widely applied to travel & sports, which requires the profile with light weight, strong, easy installation & movement performance. For examples, golf clubs, ski poles, diving board, pull rod, handcart and bench chair.

旅游文体类铝材应用实例 – 滑雪板
Product Application Cases - Snowboard



旅游文体类铝材应用实例 – 沙滩椅
Product Application Cases - Beach Chair





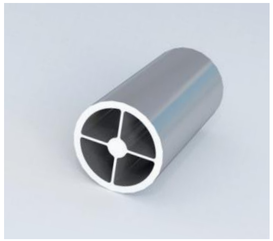
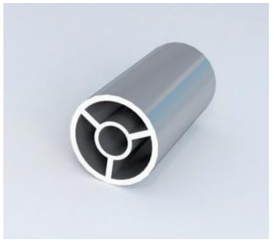
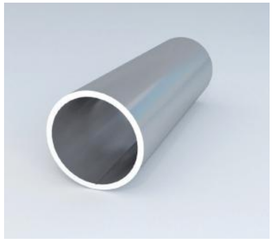
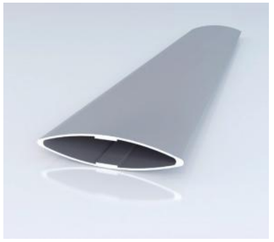

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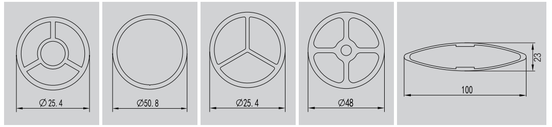




旅游文体类铝材应用实例
Application Example of Travel & Sports

旅游文体类铝材图示
Travel & Sport Profiles



旅游文体类铝材检测报告
Inspection Report


广东省质量监督铝型材检验站
检验报告
No: L16-WT0153
表号：QR-CR049-08/A/A51
共 2 页 第 1 页
产品名称、型号、规格、等级：工业型型材 2033-T6
生产日期：/
样品编号：/
委托单位：佛山市三水风彩铝业有限公司
检验类别：委托检验
委托单位地址：佛山市三水区西南街道三水区
样品数量/单件长度：0.5m/支样
生产单位（委托方填写）：佛山市三水风彩铝业有限公司
检验日期：2016 年 3 月 28 日
生产单位地址（委托方填写）：佛山市三水区西南街道三水区
批准人：叶健洋
样品特征及状态：外观正常
检验日期：2016 年 03 月 29 日至 2016 年 04 月 12 日
检验依据：GB/T 6892-2015《一般工业用铝及铝合金挤压型材》
检验结论：共检 11 项，所检项目符合 GB/T 6892-2015《一般工业用铝及铝合金挤压型材》标准的要求。
发印报告未见盖有“检验专用章”无效
备注：本报告仅对来样负责。
批准：曾耀城 审核：李伟雄 主检：李志浩

广东省质量监督铝型材检验站
检验报告
No: L16-WT0153
表号：QR-CR049-08/A/A51
共 2 页 第 2 页

序号		检测项目	单位符号	标准要求	检测结果	单项判定
1	化学成分	硅	%	单元于0.3	0.09	合格
2		铁	%	单元于0.3	0.15	合格
3		铜	%	3.8~4.9	4.38	合格
4		锰	%	0.3~0.9	0.59	合格
5		镁	%	1.2~1.8	1.52	合格
6		铬	%	单元于0.1	0.01	合格
7		锌	%	单元于0.25	0.02	合格
8		钛	%	单元于0.15	0.03	合格
9	力学性能	抗拉强度（R_m）	N/mm²		450	合格
10		规定非比例延伸强度（R_p0.2）	N/mm²		380	合格
11		断后延伸率（A_50mm）	%		10	合格


广东省质量监督铝型材检验站
检验报告
No: L16-WT0155
表号：QR-CR049-08/A/A51
共 2 页 第 1 页
产品名称、型号、规格、等级：工业型型材 2025-T6
生产日期：/
样品编号：/
委托单位：佛山市三水风彩铝业有限公司
检验类别：委托检验
委托单位地址：佛山市三水区西南街道三水区
样品数量/单件长度：0.5m/支样
生产单位（委托方填写）：佛山市三水风彩铝业有限公司
检验日期：2016 年 4 月 19 日至 2016 年 4 月 28 日
生产单位地址（委托方填写）：佛山市三水区西南街道三水区
批准人：叶健洋
样品特征及状态：外观正常
检验日期：2016 年 04 月 29 日至 2016 年 05 月 12 日
检验依据：GB/T 6892-2015《一般工业用铝及铝合金挤压型材》
检验结论：共检 11 项，所检项目符合 GB/T 6892-2015《一般工业用铝及铝合金挤压型材》标准的要求。
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备注：本报告仅对来样负责。
批准：曾耀城 审核：李伟雄 主检：李志浩

广东省质量监督铝型材检验站
检验报告
No: L16-WT0155
表号：QR-CR049-08/A/A51
共 2 页 第 2 页

序号		检测项目	单位符号	标准要求	检测结果	单项判定
1	化学成分	硅	%	单元于0.3	0.11	合格
2		铁	%	单元于0.35	0.18	合格
3		铜	%	单元于0.1	0.13	合格
4		锰	%	单元于0.3	0.12	合格
5		镁	%	4.5~5.6	4.9	合格
6		铬	%	单元于0.2	0.12	合格
7		锌	%	0.0~0.3	0.07	合格
8		钛	%	单元于0.2	0.03	合格
9		铁	%	0.05~0.25	0.14	合格
10	力学性能	抗拉强度（R_m）	N/mm²	不小于335	380	合格
11		规定非比例延伸强度（R_p0.2）	N/mm²	不小于280	245	合格
12		断后延伸率（A_50mm）	%	不小于8	14	合格

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