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## SGS建筑产品服务

### SGS CONSTRUCTION PRODUCTS SERVICES

以专业服务推动经济、环境和社会的和谐共赢, 这就是SGS的永续成长之道

WHEN YOU NEED TO BE SURE



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## 关于SGS ABOUT SGS

总部位于瑞士的SGS集团创建于1878年，是全球检验、鉴定、测试及认证服务的领导者和创新者，也是公认的品质与诚信的全球基准。SGS集团在全球拥有1,250多个分支机构和实验室，64,000多名员工，服务网络遍及全球。

SGS道标标准技术服务有限公司是SGS集团和隶属于原国家质量技术监督局的中国标准技术开发公司共同建成于1991年的合资公司。在中国设立了50多个分支机构和几十间实验室，拥有9,000多名训练有素的专家。

SGS的服务能力覆盖农产、矿产、石化、工业、消费品、汽车、生命科学等多个行业的供应链上下游。近年来，我们在环境、新能源、能效和低碳领域不断创新，锐意进取，致力于以专业的检测和认证服务推动经济、环境和社会的和谐共赢，为国内外企业、政府及机构提供全方位可持续发展解决方案。

With its headquarters in Switzerland, SGS is the world's leading inspection, verification, testing and certification company. Founded in 1878, SGS is recognized as the global benchmark in quality and integrity. We operate a network of over 1,250 offices and laboratories around the world with around 64,000 employees.

SGS-CSTC Standards Technical Services Co., Ltd. was founded in 1991 as a joint venture between SGS Group and China Standard Technology Development Corp., under the State Administration of Quality Technical Supervision. SGS-CSTC boasts over 50 branches and dozens of laboratories with over 9,000 professionals working for the company.

Our capabilities are competently embodied in servicing the supply chains of various sectors such as agricultural, minerals, petrochemicals, industrial, consumer products, automotive and life science. For years, SGS has geared up its innovation efforts and collateral resources in the areas of environmental protection, alternative energy, energy efficiency and low carbon initiatives. The testing, inspection and certification services we provide help local and overseas businesses, governments and institutions develop sustainable solutions that balance People, Planet and Profit.

## 建材检测及认证服务 CONSTRUCTION MATERIAL TESTING & CERTIFICATION SERVICE

SGS在欧洲、美国、中国等国家和地区已开展建筑材料的检测和认证服务，形成一个全球性的服务网络。SGS工业部建材实验室主要从事建筑原材料如天然石材、天然石材复合板、人造石、瓷砖、木制品、木塑材料、铝塑复合板、水泥、建筑节能材料等相关产品的测试和产品CE认证等技术服务。

测试标准涵盖了中国国家标准、美国标准、欧洲标准、英国标准、德国标准、澳洲标准、日本标准及国际标准。我们也可以根据客户要求进行测试。

SGS has started the construction materials testing and certification services in Europe, USA and China etc, operating a network of all branches in the world. The SGS construction materials laboratory of industrial department focuses on the testing and CE certification of construction materials, such as the natural stone, natural stone complex veneer, artificial stone, ceramic tiles, woodware, wood & plastic composites, aluminum-plastic composite panel, cement, building energy-saving materials, fire resistance materials, and related products.

The Construction Material Laboratory can do testing services according to different kinds of testing standards, such as GB, ASTM, EN, BS, DIN, AS, JIS, ISO, etc. We can also provide testing services according to customer's need.



## 建筑材料的REACH-SVHC测试服务

### REACH-SVHC TESTING SERVICE FOR CONSTRUCTION MATERIAL



#### 建筑材料的REACH-SVHC要求 REACH-SVHC REQUIREMENT OF CONSTRUCTIONS MATERIAL

2007年6月1日，被誉为“欧盟近20年来最重要立法”的欧盟REACH法规(1907/2006/EC，化学品的注册、评估、授权及限制)正式生效。从法规开始实施以来，法规持续的更新也将各项义务的要求不断提升。特别是企业最为关注的SVHC(高关注物质)候选物质清单，其更新速度之快令人咋舌！同时，欧盟计划于2012年底前将SVHC增加至135项。

REACH法规中的SVHC对人体和环境的危害特别巨大。根据REACH要求，企业需为他们的使用申请授权、通报、通知下游用户(包括消费者)。否则将面临出口中断，欧盟处罚，消费者投诉的风险。

On June 1st, 2007, the REACH regulation (1907/2006 / EC, chemical registration, evaluation, licensing and restriction), which was known as "the most important legislation in nearly 20 years of EU", formally went into effect. Ever since the implementation of the regulation, the requirements of every obligation are enhanced greatly by continuous updating of the regulation. The SVHC (high attention substance) candidate material list, which is most concerned by company, is updating fast, and the renewal speed is very startling. The EU plans to increase SVHC to 135 items before the end of year 2012.

The SVHC mentioned in REACH regulation do great harm to human health and environment. According to the requirement of REACH, the company must apply authorization for the SVHC use, notification, and notification of downstream users (including consumers), otherwise they will face the risk of export interruption, the EU punishment and consumer complaints.

根据2011年1月10日，欧盟内部市场委员会通过的新规则，含有危险物质的建筑产品必须明确标明其含有危险物质，以保护建筑工人和建筑产品使用者的健康和环境。

Construction products containing hazardous substances will have to be clearly labelled, to protect the health and safety of construction workers and users of construction works, under new rules endorsed by the Internal Market Committee on 10th January 2011.

根据新法规，要求每种建筑产品必须要有“性能声明”，必须包括2006年REACH法规中规定的有害物质信息，从而确保所有潜在用户能清楚地了解内容。

此外，委员会还将起草一份报告，评估这些有害物质信息的具体需求，并特别考虑，为确保使用建筑产品的工人和建筑产品使用者的健康和环境安全需求，评估还必须考虑到零件和材料的回收和/或再利用。

Under the new regulation, the "declaration of performance" already required for every construction product will have to include information on hazardous substances, as required by the 2006 REACH Regulation, so as to make the contents clear to all potential users.

In addition, the Commission will draw up a report assessing the specific needs for information on these hazardous substances, and taking account, inter alia, of the need to ensure a high level of protection of the health and safety of workers using construction products and of users of construction works. Its assessment must also have regard to requirements on recycling and/or re-use of parts or materials.

该条例在欧盟官方公报上发布后20天后生效。然而，其大部分规定只有在2013年7月1日才能应用。作为一个过渡期让公司有时间去调整。

The regulation formally enter into force 20 days after its publication in the Official Journal of the European Union. However, many of its provisions will apply only as from 1 July 2013, as a transition period is needed to allow companies time to adjust.

2011年1月18日，欧盟议会正式提出将拟定建材产品的法规。这个规则将要求建材产品拥有CE标志。产品性能中凡是涉及到SDS(化学品安全说明书)第31章和REACH 法规33章所规定的内容，必须做出宣称才能拥有CE标志。

On 18th January 2011, EU parliament has adopted a position for a future regulation on construction product. This future regulation will create a CE marking for construction product. In order to have this CE marking, a declaration of performance will be required with all information required by Article 31 (SDS — Safety Data Sheet) or Article 33 (Candidate List) of REACH.

SGS SVHC测试服务帮助您准确迅速调查产品SVHC，应对REACH和客户的要求。

SVHC testing service conducted by SGS can help you to test SVHC in products accurately and rapidly, and can fully fit the requirements of REACH and customers.

## 欧盟CE认证之建筑产品CPD及认证要求

### CE SERVICE FOR CONSTRUCTION PRODUCTS DIRECTIVE (CPD) & REQUIREMENT

#### 建筑产品指令(CPD) CONSTRUCTION PRODUCTS DIRECTIVE (CPD)

建筑产品指令(CPD)是关于使各成员国有关建筑产品的法律、法规和行政规定趋于(89/106/EEC)一致的指令。各个欧盟成员国为了保证其境内的建筑物和土木工程在设计上施工上不对人、家畜(禽)、财产的安全构成威胁，同时为维护普遍的福利所遵循的其他基本要求，同时不仅关系到建筑物的安全，而且关系到健康、使用寿命、节约能源、环境保护、经济因素和其他公共利益方面的重要因素。

Construction Products Directive (CPD) is on the approximation of laws, regulations and administrative provisions of the Member States. Member states are responsible for ensuring that building and civil engineering works on their territory are designed and executed in a way that does not endanger the safety of persons, domestic animals and properties, while respecting other essential requirements in the interest of general well-being. Member States have provisions, including requirements, relating not only to building safety but also to health, durability, energy economy, protection of the environment, aspects of economy, and other aspects important in the public interest.



#### 建筑产品指令(CPD)的产品范围 THE SCOPE OF CPD

“建筑产品”是指任何以永久性方式包括在建筑工程内的任何产品。建筑工程包括建筑物和土木工程。产品范围主要包括：玻璃、天花板、墙板、混凝土、水泥、管道、绝缘材料、木板、沥青混凝土、地板、下水道设备、砖块、门窗、结构金属材料、热绝缘产品、结构木料、交通信号指示等。

"Construction product" means any product which is produced for incorporation in a permanent manner in construction works, including both building and civil engineering works. The product scope covers: Glass, Ceiling, Wall Board, Concrete, Cement, Pipe, Roof materials, Wooden board, Bituminous mixture, Floor, Sewer equipment, Bricks, Doors and Windows, Structural metal products, Thermal insulation product, Structural timber, Traffic signal indication.

#### SGS公告号 SGS NOTIFICATION NUMBER

SGS UK	No.0120
SGS INTRON	No.0958/1939
SGS Portugal	No.1029
SGS Nederland	No.0608/1122
SGS Italia	No.1381
SGS Hungary	No.1979



## 天然石材检测及认证服务 NATURAL STONE TESTING & CERTIFICATION SERVICES

### 测试项目 TEST ITEMS

表观密度及气孔率、密度、吸水率、光泽度、抗折强度、耐磨性、防滑性、岩相分析、抗压强度、断裂模数、抗冻融试验、销钉破坏载荷、毛细吸水率、温度冲击、抗盐晶、莫氏硬度、肖氏硬度、防滑性能、防火性能、放射性试验、尺寸偏差、弯曲强度、热循环、二氧化硫老化、碳酸盐含量、非碳酸盐含量、耐酸性、铝固强度、化学成分分析。

Apparent density & Porosity, Gravity, Water absorption, Glossiness, Flexural strength, Abrasion resistance, Slip resistance, Petrographic description, Compressive strength, Modulus of rupture, Frost resistance, Breaking load at dowel hole, Water absorption coefficient capillarity, Thermal shock resistance, Salt crystallization resistance, Mohs' hardness, Shore hardness, Slip resistance, Reaction to fire, Radionuclides, Dimension deviation, Bending strength, Thermal cycling, Sulfur dioxide exposure, Carbonate content, Non-carbonate carbon content, Acid resistance, Anchoring strength, Chemical composition analysis.

### 非洲及中东市场 AFRICA & MIDDLE EAST MARKET

石材出口至沙特一定要用ASTM标准。出口到肯尼亚、厄立特里亚、阿尔及利亚等国家可参考客户具体情况采用EN标准或ASTM标准。具体测试项目参见以上内容。

When the stone exports to Saudi Arabia, it must apply to ASTM standard. When exports to Kenya, Nigeria, Algeria, you could select the EN standard or the ASTM standard which depends on the client. Detail test items please see the content above.



### 产品规范 STANDARD SPECIFICATION FOR PRODUCT

#### ● 欧洲市场 EUROPEAN MARKET

根据89/106/EEC要求。以下用途的天然石材产品要求**CE标识**  
According to 89/106/EEC, below natural stone products needs **CE marking**.

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
花岗岩和大理石产品 Granite & Marble	
EN 1341	室外铺装用天然石材大板 Slabs of natural stone for external paving
EN 1342	室外铺装用天然石材小方块 Setts of natural stone for external paving
EN 1343	室外铺装用天然路沿石 Kerbs of natural stone for external paving
EN 12057	天然石材产品-规格板 Natural stone - Modular tiles
EN 12058	天然石材产品-铺地及台阶用板 Natural stone - Slabs for floors and stairs
EN 1469	天然石材产品-贴墙板 Natural stone - Slabs for cladding
EN 771-6	天然石材块 Natural stone masonry units
板岩产品 Roofing Slate	
EN 12326-1	不连续屋顶及屋面用板岩及石制品 Slate and stone products for discontinuous roofing and cladding

#### ● 美国市场 AMERICAN MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
ASTM C615	花岗岩 Granite dimension stone
ASTM C503	大理石 Marble dimension stone
ASTM C1527	石灰华 Travertine dimension stone
ASTM C1526	蛇纹石 Serpentine dimension stone
ASTM C616	石英石 Quartz-Based dimension stone
ASTM C568	石灰岩 Limestone dimension stone

#### ● 中国市场 CHINESE MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
GB/T 18601	天然花岗岩建筑板材 Natural granite building board
GB/T 19766	天然大理石建筑板材 Natural marble building board

## 天然石材复合板检测服务 NATURAL STONE COMPLEX VENEER TESTING SERVICE

### 测试项目 TEST ITEMS

尺寸要求、外观质量、光泽度、表面密度、抗折强度、弹性模量、剪切强度、粘结强度、落球冲击强度、耐磨度。

Dimension Requirements, Visual appearance, Gloss, Surface density, Flexural strength, Modulus of elasticity, Shear strength, Bonding strength, Impact resistance, Abasion resistance composition analysis.

### 产品规范 STANDARD SPECIFICATION FOR PRODUCT

#### ● 中国市场 CHINESE MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
JC /T 1049	超薄天然石材复合板 Ultra-thin natural stone complex veneer

## 人造石材检测及认证服务 ARTIFICIAL STONE TESTING & CERTIFICATION SERVICE

### 测试项目 TEST ITEMS

表观密度和吸水率、弯曲强度、弯曲弹性模量、耐磨性、抗冻性、温度冲击、销钉孔破坏载荷、抗冲击性、冲击韧性、耐化学腐蚀性、线性热膨胀系数、尺寸稳定、抗压强度、热导率、电阻率、尺寸、几何特征和表面质量、防滑性能、载荷测试、色牢度和老化性、耐污性、耐加盐性、耐高温性、耐水性、巴氏硬度、阻燃性(氧指数)、耐灼烧性(香烟燃烧)、防火等级。

Water absorption and apparent density, Flexural strength, Bending elastic modulus, Abrasion resistance, Freeze and thaw resistance, Thermal shock resistance, Resistance to fixing (dowel hole), Impact resistance, Impact toughness, Chemical resistance test, Linear thermal expansion coefficient, Dimensional stability, Compressive strength, Thermal conductivity, Electrical receptivity, Dimensions, geometric, surface quality, Slip resistance, Loading test, Colorfastness and aging test, Stain resistance test, Heated pan test, High temperature resistance test, Water resistance, Barcol hardness, Fire resistance (Oxygen index), Cigarette burning test, Reaction to fire.

### 产品规范 STANDARD SPECIFICATION FOR PRODUCT

#### ● 欧洲市场 EUROPEAN MARKET

根据89/106/EEC要求。以下用途的人造石材产品要求**CE标识**  
According to 89/106/EEC, below artificial stone products needs **CE marking**.

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
EN 15285	人造石-(室内/室外)铺地或台阶用规格板 Agglomerated stone - Modular tiles for flooring and stairs (internal and external)





## 玻璃类检测服务 GLASS TESTING SERVICE

我们能为您的产品提供全成分分析及相应的物理性能测试服务。可以依据ASTM, EN, ISO等国际标对需要出口到美洲、及欧洲的玻璃类（硅酸盐类）提供全套的测试服务，以便您的产品能迅速打开当地市场。

We can offer components analysis, mechanical properties tests and other related test of glass. Furthermore, we can offer the test for the glazing product that will be purchased in American or European market and the tested can be conducted according to ASTM, EN, ISO and other international standards. We sincerely want to help you expand the market.

### 测试项目 TEST ITEMS

尺寸测量，全成分分析，安全性能测试，高温变形，耐热冲击，耐候老化，双轮胎冲击，弯曲强度，摆锤冲击强度，震摆冲击试验，隔音，可见光透射比和反射比，太阳光直接透射比和反射比，太阳能总透射比，紫外透射比和反射比，传热系数，交通讯号识别的透射特性。

Dimensional measurement, Components analysis, Safety performance testing, Thermal durability, Heat shock, Weathering testing, Dual tires impact, Curvature(Bending strength), Charpy impact strength, Pendulum test, Sound insulation, Light transmittance and reflectance, Solar direct transmittance and reflectance, Total solar energy transmittance, Ultraviolet transmittance and reflectance, Thermal transmission coefficient, Transmittance properties related to traffic signal recognition.



### 产品规范 STANDARD SPECIFICATION FOR PRODUCT

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
EN 14449	建筑玻璃-夹层玻璃和夹层安全玻璃 Glass in building-Laminated glass and laminated safety glass
EN 410	建筑玻璃光学性能 Optical properties of glass in building
EN 12600	建筑玻璃摆锤冲击测试 Glass in building-pendulum test
EN 1036	建筑玻璃-镀膜玻璃-室内使用涂层浮法玻璃 Glass in building-- Mirrors from silver-coated float glass for internal use
EN 12150	钢化玻璃 Thermally toughened soda lime silicate safety glass
EN 14179	建筑用吸热钢化热安全玻璃 Glass in building-heat soaked thermally toughened soda lime silicate safety glass
EN 13024	热钢化安全玻璃 Glass in building-thermally toughened borosilicate safety glass
EN 14321	热钢化安全玻璃 Glass in building-thermally toughened alkaline earth silicate safety glass
BS EN 1836	太阳眼镜和太阳眼镜镀膜 Sunglasses and sunglare filters
BS 6206	玻璃玻璃冲击冲击 Impact performance
ASTM C1172	建筑夹层平板玻璃 Laminated architectural flat glass
ASTM C1048	钢化平板玻璃 Heat-treated flat glass
ANSI Z97.1	建筑安全玻璃 Safety glazing materials used in buildings
ANSI Z80.3	太阳眼镜和装饰眼镜 Sunglasses and fashion eyewear
GB/T 11944	中空玻璃 Sealed insulation glass
GB 11614	平板玻璃Flat glass
GB/T 17841	半钢化玻璃Heat strengthened glass
GB/T 8484	建筑外门窗保温性能 Thermal insulating properties of doors and windows
GB 2680	建筑玻璃光学性能 Optical properties of glass in building
GB 15763	建筑安全玻璃 Safety glazing materials used in buildings
GB 2457	太阳镜 Sunglasses
ISO 12543-1~6	建筑玻璃-夹层玻璃和夹层安全玻璃 Glass in building-Laminated glass and laminated safety glass
ISO 9050	建筑玻璃光学性能 Optical properties of glass in building
AS/NZS 2208	建筑安全玻璃 Safety glazing materials in buildings

## 木制品检测及认证服务 WOODWARE TESTING & CERTIFICATION SERVICE

### 常测产品 TEST PRODUCTS

胶合板，纤维板，刨花板，细木工板，实木地板，强化木地板，竹地板，木制品字架，等。

Plywood, Fiber board, Particle board, Laminated wood board, Solid wood floor, Laminate floor, Bamboo floor, Timber framework beam, ect.

### 测试及认证项目

CE认证，CARB认证  
CE Certification and CARB Certification.

### 主要测试项目 MAIN TEST ITEMS

#### • 尺寸要求 DIMENSION REQUIREMENT

长宽度，厚度，直角度，翘曲度。

Length width and thickness, Side straightness, Squareness, Warpage.

### 木塑检测服务

## WOOD & PLASTIC COMPOSITES TESTING SERVICE



### 测试项目 TEST ITEMS

拉伸强度，弯曲强度，弯曲模量，压缩强度，剪切强度，蠕变性能，握钉力，抗人工加速老化等。

Tension strength, Flexural strength, Flexural stiffness, Compression strength, Shear strength, Creep-recovery and creep-rupture, Nail and screw withdrawal, Resistance to artificial weathering-coating, ect.

#### • 物理性能 PHYSICAL PROPERTY

含水率，密度，吸水厚度膨胀率，耐腐度，尺寸稳定性，摩擦。

Moisture content, Density, Swelling in thickness after immersion in water, Abrasion resistance, Dimension stability, friction factor, Slipperiness, Airborne sound insulation, Sound absorption, Thermal conductivity, Resistance to staining.

#### • 力学性能 MECHANIC PROPERTY

握钉力，内结合强度，静曲强度和弹性模量，表面结合强度，拉伸性能，剪切性能，抗弯，承载。

Resistance to axial withdrawal of screws, internal bond strength, bending strength and modulus of elasticity, bonding strength, tensile strength, shearing strength, bending, bearing.

#### • 甲醛释放量 FORMALDEHYDE RELEASE

甲醛释放量，五氯苯酚含量。

Formaldehyde release, Content of pentachlorophenol.

#### • 防火性能 FLAMMABILITY PROPERTY

防火等级，表面燃烧性能。

Reaction to fire classification, Surface burning characteristics.

#### • 抗生物侵袭危险 BIOLOGICAL DURABILITY



### 产品规范 STANDARD SPECIFICATION FOR PRODUCT

#### • 欧洲市场 EUROPEAN MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
BS DD CEN/TS15534-1~3	木塑复合材料(WPC) Wood-Plastics composites(WPC)

#### • 美国市场 AMERICAN MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
ASTM D7031	木塑复合材料产品 Wood-Plastic composite products
ASTM D7032	木塑复合材料装饰板及护栏系统 Wood-Plastic composite deck boards and Guardrail systems (Guards or handrails)

#### • 中国市场 CHINESE MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
GB/T 24137	木塑复合材料产品 Wood-Plastic composite products
GB/T 24508	木塑地板 Wood-Plastic composite flooring

## 铝塑复合板/铝型材/铝蜂窝板检测服务

### ALUMINUM-PLASTIC COMPOSITE PANEL/ALUMINIUM PROFILE/ ALUMINIUM HONEYCOMB SANDWICH PANEL TESTING SERVICE

#### 测试项目 TEST ITEMS

平面拉伸强度、耐冲击测试、平压强度、耐落沙磨耗、侧压强度、耐盐酸、拉伸剪切强度、耐泥浆、芯部剪切强度、耐硫酸、热膨胀系数、耐清洁剂、热传导系数、耐窗户清洗剂、色彩均匀性、耐湿、镜面光泽度、耐盐雾、干膜硬度、南佛罗里达耐候曝晒、涂层干膜附着力、阻燃等级、涂层湿态附着力、表面火焰蔓延率、涂层沸水附着率、散烟度。

Flatwise Tensile Strength, Impact resistance, Ultimate flatwise compressive strength, Abrasion resistance, Edgewise compressive strength, Muriatic acid resistance, Tensile shear strength, Mortar resistance, Core shear ultimate stress, Nitric acid resistance, Coefficient of linear thermal expansion, Detergent resistance, Thermal transmission properties, Window cleaner resistance, Color uniformity, Humidity resistance, Specular gloss, Salt spray resistance, Dry film hardness, South Florida exposure, Film dry adhesion, Fire classification, Film wet adhesion, Surface spread of flame, Film boiling water adhesion, Smoke developed.



#### 产品规范 STANDARD SPECIFICATION FOR PRODUCT

##### ● 国际市场 INTERNATIONAL MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
Qualicoat规范	建筑用铝表面油漆及粉末涂料 Paint, lacquer and powder coatings on aluminium for architectural applications

##### ● 美国市场 AMERICAN MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
AAMA 2605	铝型材和板材上的超高性能有机涂层 Superior performing organic coatings on aluminum extrusions and panels
AAMA 2604	铝型材和板材上的高性能有机涂层 High performance organic coatings on aluminum extrusions and panels
AAMA 2603	铝型材和板材上的着色有机涂层 Pigmented organic coatings on aluminum extrusions and panels
AAMA 611	阳极氧化建筑铝 Anodized architectural aluminum
AAMA 612	建筑用铝阳极氧化与透明有机复合涂层 Combined coatings of anodic oxide and transparent organic coating on architectural aluminum
AAMA 620	滚涂结构铝涂层的高性能有机涂层 High performance organic coatings on coil coated architectural aluminum substrates

##### ● 中国市场 CHINESE MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
GB/T 17748	建筑幕墙用铝塑复合板 Aluminum-plastic composite panel for curtain wall
GB/T 22414	普通装饰用铝塑复合板 Aluminum-plastic composite panel for ordinary decoration

## 水泥及水泥基胶凝材料检测服务

### CEMENT & CEMENT BINDERS TESTING SERVICE

#### 测试项目 TEST ITEMS

强度、安定性、细度、凝结时间、烧失量、标准稠度用水量、不溶物、氧化钙含量、三氧化硫含量、氧化钙含量、游离氧化钙含量、三氧化二铝含量、二氧化硅含量、三氧化二铁含量、碱金属含量、碱金属离子、碱金属离子、硫酸三钙含量、硫酸二钙含量、铝酸三钙含量、水化热、硫酸盐膨胀、三氧化硫含量、拉伸胶粘强度、滑移测试、晾干时间。

With the rapid growth of Chinese cement exports, many large enterprises are actively looking for ways to deal with the program. Our Material Lab has the ability of cement testing in accordance with GB standards and the international Test Standards, such as ASTM, EN, BS, AS and JIS. We can provide the physical testing and chemical composition analysis of various types of the cement and related cementitious materials to the commercial purchasers and users. At the same time, our testing ability also contains the concrete admixtures, fly ash and various relevant building products.



Strength, Soundness, Fineness, Time of setting, Loss on ignition, Normal consistency, Insoluble residue, Magnesium oxide (MgO), Sulfur trioxide (SO<sub>3</sub>), CaO, f-CaO, Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>), Silicon dioxide (SiO<sub>2</sub>), Ferric oxide (Fe<sub>2</sub>O<sub>3</sub>), Chloride content, Alkali (K<sup>+</sup>, Na<sup>+</sup>), Tricalcium silicate (C<sub>3</sub>S), Dicalcium silicate (C<sub>2</sub>S), Tricalcium aluminate (C<sub>3</sub>A), Heat of Hydration, Potential expansion of sulfate (14days), CO<sub>2</sub> content, Tensile adhesion strength, Determination of slip, Open Time.

#### 产品规范 STANDARD SPECIFICATION FOR PRODUCT

##### ● 欧洲市场 EUROPEAN MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
EN 196	普通水泥 Common cements
EN 197	

##### ● 澳洲市场 AUSTRALIAN MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
AS 2350	波特兰、混合及砌筑水泥 Portland, blended and masonry cements
AS 4992	陶瓷砖砂浆和胶黏剂 Grouts and adhesives for ceramic tile

##### ● 美国市场 AMERICAN MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
ASTM C150	波特兰水泥 Portland cement

##### ● 中国市场 CHINESE MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
GB 175	通用硅酸盐水泥 Common portland cement
GB/T 176	

##### ● 国际市场 INTERNATIONAL MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
ISO 13007	陶瓷砖砂浆和胶黏剂 Grouts and adhesives for ceramic tile

## 陶瓷砖检测及认证服务 CERAMIC TILES TESTING & CERTIFICATION SERVICE



### 测试项目 TEST ITEMS

缺陷, 外观质量, 长宽厚, 边直度, 直角度, 平整度, 翘曲度, 吸水率, 破坏强度, 断裂模数, 三点抗折, 无釉砖耐磨性, 有釉砖表面耐磨性, 线性热膨胀系数, 抗热震性的测定, 抗釉裂测试(釉面砖), 抗冻性(室外用墙地砖), 冻融循环, 摩擦系数, 小色差, 耐污染, 耐化学腐蚀性, 光泽度, 抗电裂, 湿膨胀, 热膨胀, 耐磨指数, 粘结强度, 衬托纸, 防滑性。

Defects, Visual appearance, Length, Width, Thickness, Wedging of flat, Rectangular, Flatness, Warpage, Water absorption, Breaking strength, Modulus of rupture, Three point loading, Resistance to deep abrasion -unglazed tiles, Resistance to surface abrasion -glazed tiles, Linear thermal expansion, Resistance to thermal shock, Resistance to crazing-glazed tiles, Frost resistance, Resistance to freeze/thaw cycling, Coefficient of friction, Small colour differences, Resistance to staining, Resistance to chemical, Glossy, Crazing resistance, Moisture expansion, Thermal expansion, Abrasive wear index, Bond strength, Mounting, Slip resistance.



### 产品规范 STANDARD SPECIFICATION FOR PRODUCT

#### ● 欧洲市场 EUROPEAN MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
EN 14411	陶瓷砖 Ceramic tiles

#### ● 美国市场 AMERICAN MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
ANSI A137.1	瓷砖 Ceramic tiles

#### ● 非洲市场 AFRICA MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
KS 1738 Part 1 -Part 9	墙砖及墙面用陶瓷砖产品 (肯尼亚) Ceramic floor and wall tiles (Kenya)
ISO 13006	陶瓷砖 (尼日利亚, 阿尔及利亚) Ceramic tiles (Nigeria, Algeria)

## 防水材料检测服务 WATERPROOF MATERIAL TESTING SERVICE



防水材料是建筑物的重要使用材料。其质量的好坏直接影响到人们的居住环境。卫生条件以及建筑物的使用寿命。我们可以依据ASTM, EN, AS, BS等国家标准。为您的产品提供符合出口地要求的功能性测试。

Waterproof material is the important material in the construction. The quality of the product can affect our dwelling environment, sanitary condition and the service life of buildings. We can offer your products functional testing that meets the requirements of the exported places according to ASTM, EN, AS, BS and other national Test Standards.

### 测试项目 TEST ITEMS

尺寸测量, 外观, 单位面积质量, 平整度和平整度, 水密性, 拉伸强度, 耐冲击性, 接缝强度, 低温柔性, 剥离性能, 耐久性, 水蒸气渗透。

Dimensional measurement, Appearance, Mass per unit area, Straightness and flatness, Watertightness, Tensile strength, Low impact resistance, Joint strength, Low temperature flexibility, Resistance to tearing, Durability, Water vapour permeability.

### 测试标准 TEST STANDARDS

EN 1928, EN 14223, EN 544, EN 13859, GB/T 328.

### 产品规范 STANDARD SPECIFICATION FOR PRODUCT

#### ● 欧洲市场 EUROPEAN MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
EN 13970	沥青防水卷材 Bitumen waterproof membrane
EN 13984	塑料和橡胶防水卷材 Plastics and rubber waterproof membrane
EN 13859-1,-2	
EN 544	沥青瓦 Bitumen shingles

#### ● 美国市场 AMERICAN MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
ASTM D6163	
ASTM D6164	SBS改性沥青卷材 SBS modified bituminous sheet
ASTM D6222	

#### ● 中国市场 CHINESE MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
GB/T 328	沥青和高分子防水卷材 Bitumen, plastic and rubber sheets for waterproofing



## 涂料/胶粘剂检测服务 COATINGS/ADHESIVES TESTING SERVICE



### 测试项目 TEST ITEMS

#### 涂料测试项目 COATINGS TESTING ITEMS

在容器中状态、干燥时间、贮存稳定性、固体含量、硬度、附着力、容器中状态、涂膜外观、涂膜厚度、粘度、密度、闪点、杯突、光泽度、初期干燥抗裂性、遮盖力、耐刮擦测试、涂层耐洗刷性、耐磨性、漆膜耐弯曲性、耐水性、透水性、耐候性、耐沾污性、耐湿热、耐中性盐雾性能、涂层耐温变性。

State in the container, Drying time, reserve stability, Solid content, Hardness, Adhesion, Container status, Coating appearance, Coating thickness, Viscosity, Density, Flashpoint, Cupping test, Gloss of Coating Film, Initial drying crack resistance, Hiding Power of paint, Scratch test, Brush resistance, Taber abrasion, Flexibility, Water resistance, Water permeability, Weathering resistance, Stain Resistance (white or tint), Damp and heat resistance, Neutral salt spray, Coating temperature variability.

#### 胶粘剂测试项目 ADHESIVES TESTING ITEMS

拉伸强度、断裂伸长率、剪切强度、粘结强度（浸水后）、粘结强度（标准状态）、剥离强度、介电强度、介电常数、体积电阻率、耐冲击性、低温稳定性、流动性、流出时间、单体含量、粘度、PH值。

Tension strength, Elongation at break, Lap shear strength, Adhesion strength (waterlogged), Adhesion strength (standard state), (T-peel) T-peel resistance, Dielectric strength, Dielectric constant, Volume resistivity, Impact resistance, Low-temperature stability, Liquidity, Efflux hours, Monomer content, Viscosity, PH value.

#### 涂料/胶粘剂环保测试项目 COATINGS/ADHESIVES ENVIRONMENTAL PROTECTION TESTING ITEMS

苯、甲苯、二甲苯、甲醛、氨、挥发性有机化合物、重金属、卤素、邻苯二甲酸酯（酯）。

Benzene, Toluene, diisocyanates (TDI), Formaldehyde, ROHS, PAHs, Nonvolatile content, VOCs, Heavy metal, Halogen, Phthalates.

### 产品规范 STANDARD SPECIFICATION FOR PRODUCT

#### 欧洲市场 EUROPEAN MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
EN 12004	地板用粘接剂 Adhesives for tiles
prEN 14259	增强石膏物胶黏剂 Adhesives for floor coverings
EN 14293	粘合剂 粘结构木地板用粘合剂 Adhesives for bonding parquet to subfloor
EN 1504-4	混凝土结构养护用品和系统-建筑用胶黏剂 Products and systems for the protection and repair of concrete structures-Structural bonding
EN 927-1	色漆和清漆-外用木器涂料和涂料体系 Paints and varnishes - Coating materials and coating systems for exterior wood
EN 13300	色漆和清漆-内墙和屋顶用水基涂料和涂料系统 Paints and varnishes-Water-borne coating materials and coating systems for interior walls and ceilings

#### 美国市场 AMERICAN MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
ASTM C557	在木结构上固定石膏护墙板用胶黏剂 Fastening gypsum wallboard to wood framing
ASTM D2559	室外潮湿环境中层压结构木制品用胶黏剂 Adhesives for structural laminated wood products for use under exterior (wet use) exposure conditions
ASTM D3019	用于沥青屋顶卷材的搭接胶黏剂 Lap cement used with asphalt roll roofing, non fibered, asbestos fibered, and non asbestos fibered
ASTM D3498	地板系统用胶合板与木骨架组合用胶黏剂 Adhesives for field-gluing plywood to lumber framing for floor systems
ASTM D4690	脲甲醛树脂胶黏剂 Urea-formaldehyde resin adhesives
ASTM D6114	沥青橡胶胶黏剂技术规范 Asphalt-rubber binder
ASTM D5324	水性建筑涂料 Water-borne architectural coatings
ASTM D6577	工业防护涂料 Industrial protective coatings
ASTM F1130	船干舷及上部结构涂料系统 Coating system of a ship

#### 国际市场 INTERNATIONAL MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
ISO 13007-1	瓷砖胶黏剂 Ceramic tiles adhesives
ISO 8130	粉末涂料 Coating powders

#### 中国市场 CHINESE MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
GB 24264	饰面石材用胶黏剂 Adhesives for facing stones
GB 19340	鞋和箱包用胶黏剂 Adhesives for footwear and base and bag
JC/T 547	陶瓷墙地砖胶黏剂 Adhesives for ceramic wall and floor tiles
JC/T 636	木地板胶黏剂 Adhesives for wood floor
JC / T 989	非结构承载用石材胶黏剂 Structural load-unbearing stone adhesive
GB/T 23997	室内装饰装修用溶剂型聚氨酯木器涂料 Solvent-thinned polyurethane wood coatings for indoor decorating and refurbishing
GB/T 9757	溶剂型外墙涂料 Solvent-thinned coatings for exterior wall
HJ/T 201	环境标志产品技术要求-水性涂料 Technical requirement for environment labeling products - Water soluble coatings



## 防滑、防火及放射性测试服务

### SLIP RESISTANCE, FIRE RESISTANCE & RADIOACTIVITY TEST SERVICE

#### 防滑测试服务 SLIP RESISTANCE TEST SERVICE

国内外公共场所地面过于光滑而导致意外滑倒致伤致残等事件不断上升。地面防滑已经成为了公共安全的新问题。澳大利亚/新西兰(AS/NZS 4581)、英国、美国已对防滑有严格的规定。

As the probability of accident to slip wounds cripples caused by public place ground is too smooth rise unceasingly in domestic and foreign, the ground skid prevention had already become a new question of public security. The Australian/New Zealand (AS/NZS 4581), Britain, the US had set up strict stipulation to the skid prevention.

#### 常用测试方法 COMMONLY USED TEST ITEMS

摆锤法摩擦系数 Pendulum friction test  
推拉力计摩擦系数 Horizontal Dynamometer Pull-Meter Method  
斜坡法(油渍状态) Oil-wet ramp test  
斜坡法(赤脚状态) Barefoot ramp test

#### 防火测试服务 FIRE RESISTANCE TEST SERVICE

材料防火性能的检测是各国政府都要求强制执行的。目前世界上有建筑防火的标准体系三大类。分别为欧洲体系、美洲体系和澳洲体系。我们能为您的产品提供世界上大多数国家的防火测试。为您的产品在打入当地市场的过程中节省时间和费用。

Fire resistance of materials is forced to carry out by governments in every country. The standard system of fire resistance of Building materials has three main categories in the world, the European system, the United States system and the Australia system. We can provide fire resistance testing services of different systems in the world, help you to save time and costs when entering the local markets.

#### 测试项目 TEST ITEMS

防火评级。可燃性。难燃性。不燃性。燃烧释放热量。着火性。氧指数。毒性指数。产烟量。燃烧滴落物。烟密度等。

Fire resistance rating, Inflammable, Nonflammable, Non-inflammable, The release heat of combustion ignitability, Oxygen index toxicity index, Tobacco products, Dropping materials of combustion, Smoke density, etc.

#### 放射性测试服务 RADIOACTIVITY TEST SERVICE

2001年底国家质量监督检验检疫总局和国家标准化管理委员会联合发布了GB 6566-2001《建筑材料放射性核素限量》。所有的用于建造各类建筑物所使用的无机非金属材料。石材、瓷砖、水泥等产品均强制要求符合该标准要求。

人们生活消费品如石材、陶瓷、玻璃、建筑材料等不同程度存在放射性物质。研究证明,建筑装饰材料放射性物质超标,直接影响消费者特别是儿童、老人和孕妇的身体健康。使人体免疫系统受损害,并诱发白血病等慢性放射病。建筑装饰材料的放射性辐射,由此也受到了人们的普遍关注。

国家标准中将石材的放射性分ABC三类。A类装饰材料产销和使用范围不受限制。B类装饰材料不可用于(民用建筑(如住宅、老年公寓、托儿所、医院和学校等)的内饰面,但可用于民用建筑的外饰面及其他一切建筑特的外饰面。C类装饰材料只可用于建筑特的外饰面及室外其他用途。不符合C类装饰材料要求的只可用于碑石、海堤、桥墩等人类很少涉及到的地方。

Standard of GB 6566-2001, limitation of radionuclide in construction materials, was issued by General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China and National Standardization Management Committee in 2001. All the materials used in constructions like inorganic materials, stone, ceramic and cement are obligated to comply with this standard.

Radionuclide exists in most of the construction materials like stone, ceramic, glass, etc. According to research findings, the over standard of radionuclide in construction materials will effect the health of children, the old and pregnant women, even induce leucocythemia as well as other chronic diseases. In this situation, people pay lots of attention to radionuclide in those materials.

The radionuclide is classified into A, B and C three classes according to national standards. There's no using limitation for A class materials. B class materials can be used as outer cladding in I class civil constructions like housing, apartment for the old, kindergarten, hospitals, schools, etc. They can also be used in other kinds of constructions. C class materials can only be used as outer cladding of constructions or other outer using. The materials not belong to A, B and C class can only be used as inscriptions, sea walls and pier, which are far from people's daily life.



## 节能材料类检测服务

### ENERGY SAVING MATERIALS TESTING SERVICE

随着社会可持续发展的要求,建筑节能已被纳入建筑物的规划、设计、新建(改建、扩建)、改造和使用过程中。我们能够依照ASTM、EN、ISO、GB等标准进行节能材料的一系列测试。

As the requirements of the social sustainable development, energy-saving building has been brought into the process of building planning, design, construction(reconstruction, expansion), renovation and service. We can offer energy-saving materials testing according to ASTM, EN, ISO, GB and other national test standards.

#### 测试项目 TEST ITEMS

外观尺寸、尺寸稳定性、燃烧性能、导热系数、吸水率、压缩性能、氧指数、密度、抗折强度、线性收缩(指定温度)、热面性能试验、不燃性测定、应力腐蚀性能、表现密度、单位面积质量、断裂强力。

Dimension, Dimension stability, Combustibility, Thermal conductivity, Water absorption, Compression performance, Oxygen index, Density, Flexural strength, Soaking heat linear shrinkage (Specified temperature), Hot surface performance, Non-combustibility test, Stress corrosion performance, Apparent density, Mass per unit, Breaking strength.

#### 测试产品 GENERAL TESTING PRODUCTS

聚苯板EPS、XPS、聚氨酯泡沫塑料、建筑用岩棉矿物棉绝热制品、泡沫玻璃制品、硅酸铝纤维绝热制品、膨胀蛭石制品、建筑绝热用玻璃棉制品、膨胀珍珠岩绝热制品、石膏板、纤维水泥板。

EPS, XPS, Cellular plastics and rubbers, Mineral wool, Cellular glass, Calcium silicate, Vermiculite, Fibrous glass, Perlite Gypsum Plasterboard, Fiber-Cement Sheet.



#### 产品规范 STANDARD SPECIFICATION FOR PRODUCT

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
ASTM C533	硅酸钙绝热制品 Calcium silicate
ASTM C518	建筑绝热材料 Thermal insulation material
ASTM C177	建筑绝热材料 Thermal insulation material
ASTM C518	建筑绝热材料 Thermal insulation material
EN 12667	中、高热阻建筑产品 Building products of high and medium thermal resistance
EN 13496	玻璃纤维网 Glass fibre meshes
BS EN 13162	矿棉材料 Mineral wool
EN ISO 845	泡沫塑料和橡胶 Cellular plastics and rubbers
EN ISO 1923	泡沫塑料和橡胶 Cellular plastics and rubbers
ISO 2796	硬质泡沫塑料 Rigid cellular plastics
GB/T 6343	泡沫塑料和橡胶 Cellular plastics and rubbers
GB/T 8813	硬质泡沫塑料 Rigid cellular plastics
GB/T 9914.3	增强制品 Reinforcement products
GB/T 7689.5	增强材料织物 Reinforcement woven fabrics

## 脚手架检测服务 SCAFFOLDS TESTING SERVICE



我们可以根据客户要求对脚手架类产品进行材料性能、尺寸及承载力等方面的测试。

We can offer scaffolds testing according to client requirement, such as material properties, dimension and loading.

### 测试项目 TEST ITEMS

长度调节装置尺寸测量、钢管屈服强度、钢管材料屈服强度、抗拉强度、延伸率、变形量测试、破坏载荷、销钉及其支持装置最大载荷、位移、镀锌层厚度、整体结构尺寸、脚轮测试、整体结构最大不利荷载组合测试、平台组件受力角度、护栏受力角度、垂直组件组合倾斜角度、整体结构刚度测试、平台均布载荷、集中荷载、踏板硬度、强度、滑动、滑移测试。

Length adjustment device dimension measurement, Prop strength, Yield strength, tensile strength and elongation, Deflection measurement, Failure load, The maximum load and displacement, The thickness of zinc coated, Dimension of the structure, Castor wheels test, Tower structure load test in worst combinations, Elastic deflection of platform components, Elastic deflection of side protection, Inclinations between vertical components, Stiffness test, uniform load and concentrated load, The stiffness, strength, sliding and slip test

### 产品规范 STANDARD SPECIFICATION FOR PRODUCT

#### ● 欧洲市场 EUROPEAN MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
EN 1065:1998	可调节套筒式钢支撑 Adjustable telescopic steel props
EN 1004:2004	可移动式塔式脚手架 Mobile working towers
EN 39:2001	扣件脚手架用空心钢管 Loose steel tubes for coupler scaffolds

#### ● 澳洲市场 AUSTRALIAN MARKET

产品标准号 TESTING STANDARDS	适用产品 APPLICABLE PRODUCTS
AS 1577:1993	踏板 Scaffold planks



## 构件承载力及挠度检测 (非标) COMPONENT LOAD BEARING AND DEFLECTION TESTING (NON-STANDARD)



此类构件广泛运用于机场、码头等的装卸吊运，没有相关标准。而对承载力及挠度或变形有一定要求。如图所示为烟台现代轮船重工有限公司的锅炉起吊横梁 (3600kN) 以及上海永顺丰国际物流有限公司的马兜横梁 (2000kN)。承载力测试范围：≤10000kN

The component is widely applied to lifting or handing in airport, dock and so on. There is not relevant standard of the component; however, there is requirement about load bearing and deflection/deformation. The lifting beam of boiler (3600kN, Yantai Hyundai Moon Heavy Industries Co., Ltd) and split heads beam (2000kN, Winsonful Shipping Co., Ltd) are shown in the figures. Load bearing testing ability: ≤10000kN

## 现场审核服务 ON-SITE AUDIT SERVICE

SGS基本质量体系审核方案，内容涵盖以下八个方面

SGS BASIC QUALITY SYSTEM AUDIT PROGRAM CONSIST OF EIGHT ELEMENTS AS BELOW

- 原材料控制
- 来料控制
- 过程控制
- 测量仪器校准
- 成品检验
- 抽样检查
- 持续改善
- 质量保证记录

- Purchase Control
- Incoming Material Control
- Process Control
- Calibration of Measurement Equipment
- Inspection of Finished Product
- Random Product Inspection
- Continuous Improvement
- Quality Assurance Records



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