

The logo for ASG features the letters 'A', 'S', and 'G' in a bold, green, sans-serif font. A small red triangle is positioned at the base of the letter 'A'.

APPLETON

UniprofTM U profiled glass

Appleton Specialty Glass (Taicang) Limited

阿普尔顿特种玻璃（太仓）有限公司

China Factory:

Appleton Specialty Glass(Taicang)Limited
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www.appletonglass.com

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生产工艺

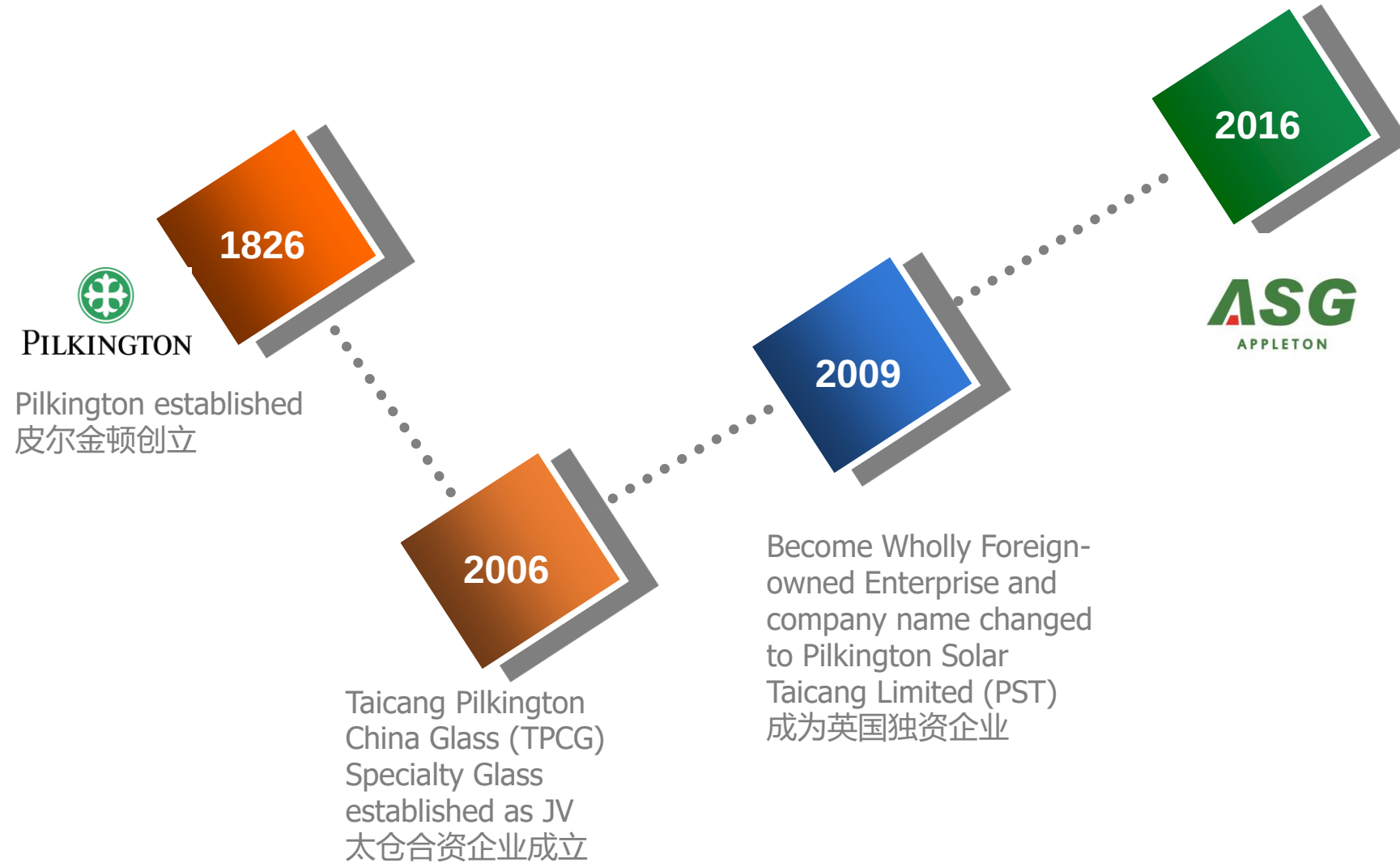
Manufacturing Process

04

质量控制

Quality Control

公司发展 Company History





产能 Capacity

40吨日熔化量超白玻璃窑炉，年产能14000吨

40 tpd low iron furnace with annual capacity 14 kt



量产 Mass Production

采用全套皮尔金顿德国U型玻璃生产工艺，自2016年开始量产超白U型玻璃供应皮尔金顿全球客户。

Pilkington Germany U glass manufacturing technology since 2016



产品 Products

全系列产品包括夹丝和在线镀膜。

Full product range including wired and online coating.



认证 Certification

玻璃成份通过欧洲Murano 实验室测试。玻璃强度和尺寸精度通过德国建筑研究所严苛测试。钢化玻璃通过中国CCC测试。

Glass properties was approved by European ilac.MRA Accredia Laboratory Murano. Glass strength and size accuracy was approved by Deutsches

Glasbau Institut GmbH. Tempered glass with CCC certification.

位置
Location

码

内河航道，公司自有卸货码头
River side, company wharf for raw
material delivery

10

距G15高速10公里
10 km to G15 high way

20

距太仓集装箱码头20公里
20 km to Taicang port

45

距虹桥枢纽45公里
45 km to Hongqiao traffic hub



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西安大悦城

建设单位：中粮集团有限公司

设计：Arquitectonica 建筑设计事务所 (ARQ)

U型玻璃：K25/60/7 超白钢化喷砂 7000m²

K25/60/7 OW 504 T+Opal 7000m²



U型玻璃: K25/70/7 超白钢化喷砂 3000m²

K25/70/7 OW Slimline T+Opal 3000m²

玻璃长度: 7000mm

花纹: 条纹

安装方式: 百叶安装、锯齿安装

西安华润置地悦府



成功案例 Projects



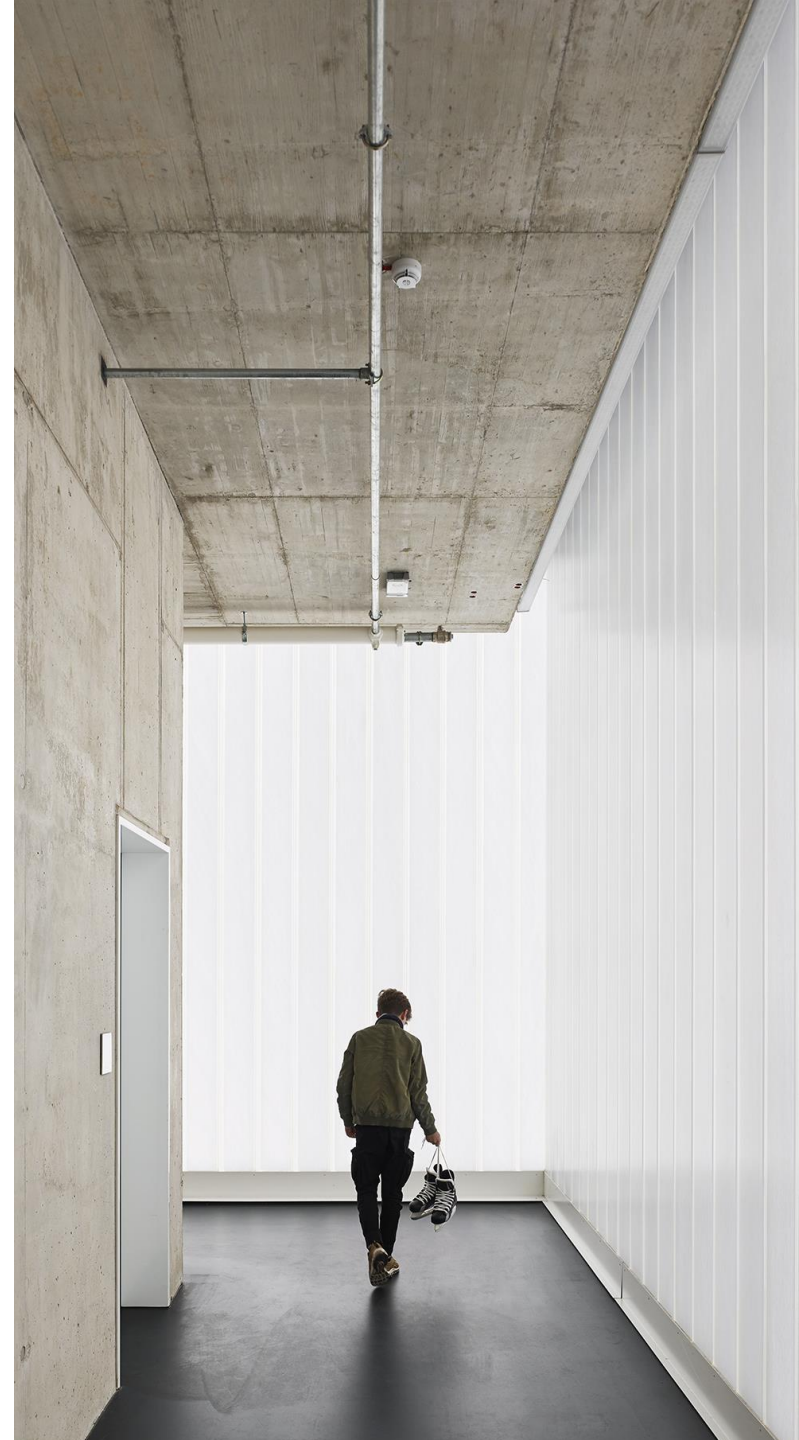
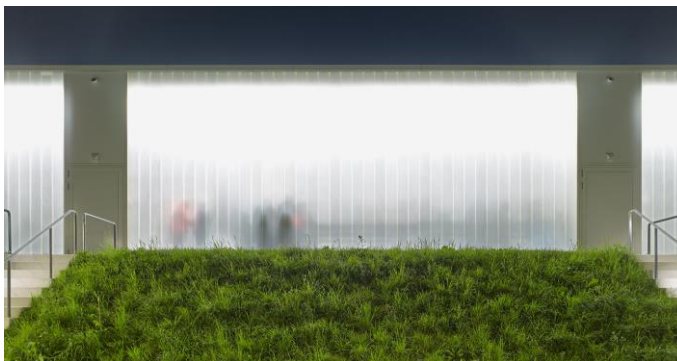
德国冰球运动馆

建设单位: Dimitrios Kogios

项目地址: Kaufbeuren, Germany

U型玻璃: K25/60/7 钢化超白喷砂 3000m²

K25/60/7 OW 504 T+Opal 3000m²





威海望岛中学

U型玻璃: K25/60/7 超白钢化 3000m²

K25/60/7 OW 504 T+Opal 3000m²





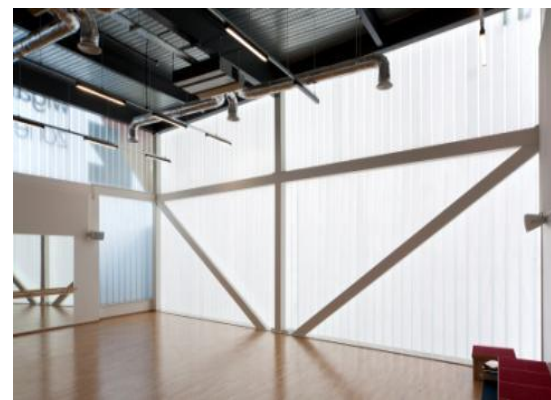
U型玻璃: K25/60/7 超白钢化喷砂 2000m²

K25/60/7 OW T+Opal 2000m²

花纹: 布纹、光面 Macro & Smooth

特殊处理: 均质、高温彩釉 Heat Soak & Enameled

英国维根青年活动中心





常州采菱观棠售楼部：优异的玻璃质量



成都龙湖西宸天街商业体：1500m²



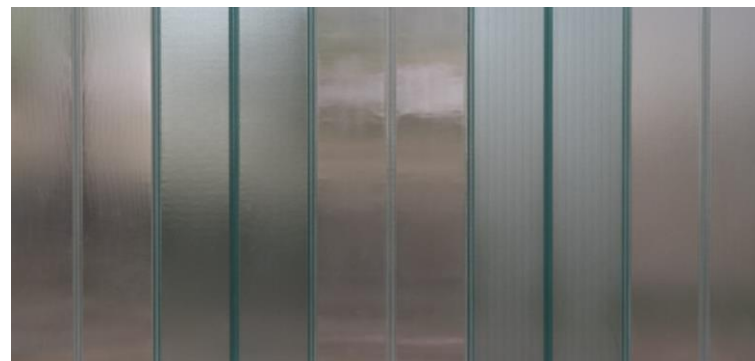
咸阳龙湖彩虹丽城：U玻长达8米



武汉金地北辰阅风华：景墙



长沙浏阳河风光带：曲面安装



源自德国
Derived from Germany



1967年开始在皮尔金顿德国生产
Pilkington technology since 1967



超白、透明、夹丝、镀膜、高温彩釉
Low iron, clear, wired, coated and enameled

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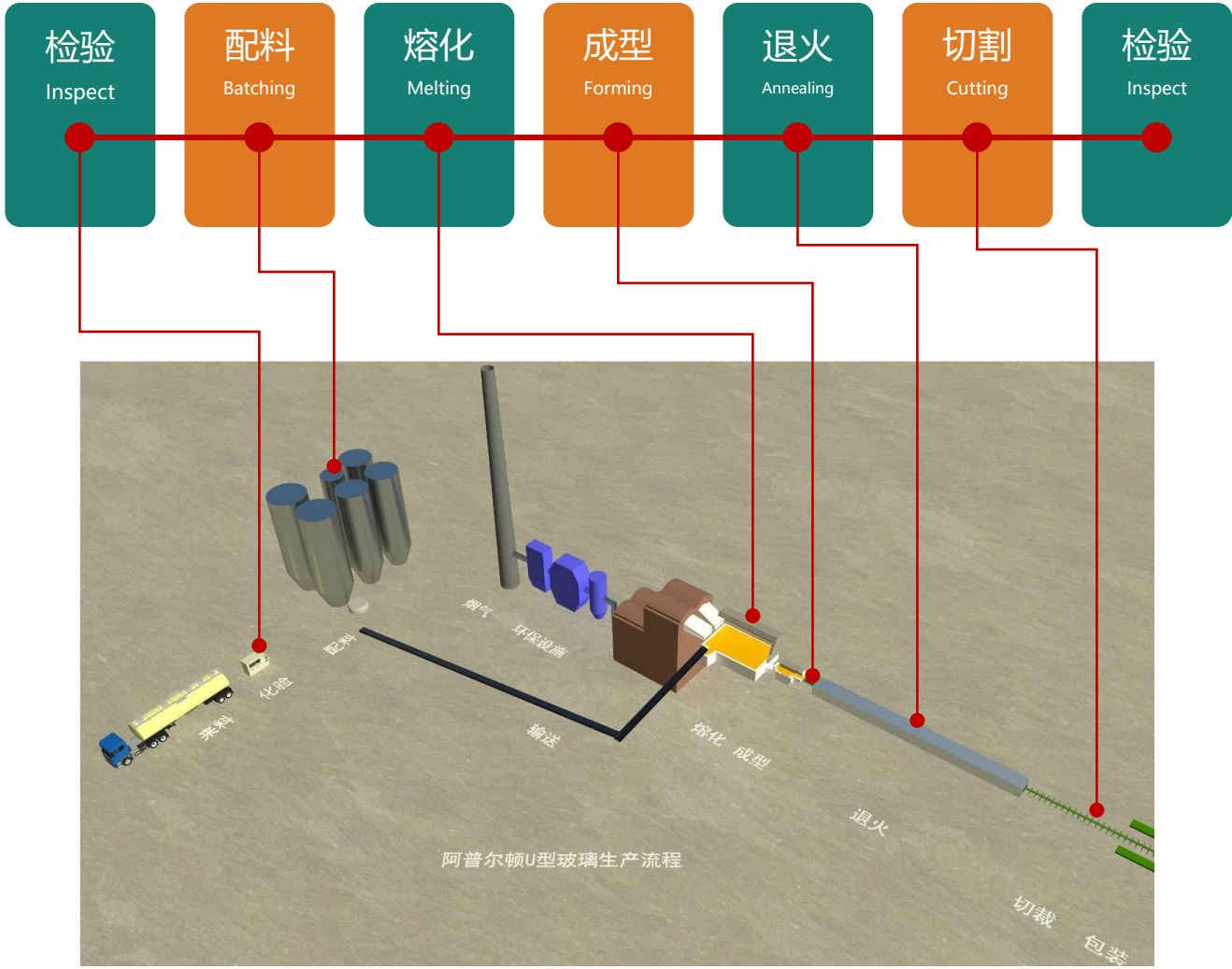
标准化玻璃工厂配置

Standardized Glass Production Facility

工厂布局 Site Overview



生产流程 Manufacturing Process



环保设施 Environment control

使用清洁能源天然气熔化玻璃，二氧化硫排放几乎为零，选用选择性催化还原法控制氮氧化物的排放，使得排放总量和浓度远低于国家排放标准，把玻璃生产对环境的影响降到最低。

Use natural gas as fuel to melting glass, almost zero SO₂ emission. Selective catalytic reduction method to reduce NO_x discharge much lower than national standard, minimize environmental impact.



阿普尔顿脱硫除尘脱硝系统

Appleton's SO₂ scrubbing and NO_x SCR system

原材料准备和配料 Raw Materials and Batch Making

选用高品质光伏玻璃材料供应商和自动配料系统，达到稳定的玻璃成份和均匀度，以避免玻璃的色差和减少自爆的风险。

Use solar glass high quality material supplier with automatic batch making system to give stable glass composition and uniformity to avoid color variation and risk of breakage.



投料和熔化 Batch feeding & Melting

自动液位控制系统实现炉内稳定的玻璃液位，从而延长窑炉运行寿命和减少耐火材料的损耗污染
使用英维思和ABB热工自动化控制系统及天然气燃烧加热，实现稳定的窑炉温度和压力以达到最优的熔化状态

Automatic glass level control system to give stable metal level inside furnace to achieve longer furnace life and reduce refractory contamination.
Invensys & ABB Distributed Control System and gas firing, to achieve stable furnace temperature & pressure then give you good melting quality.



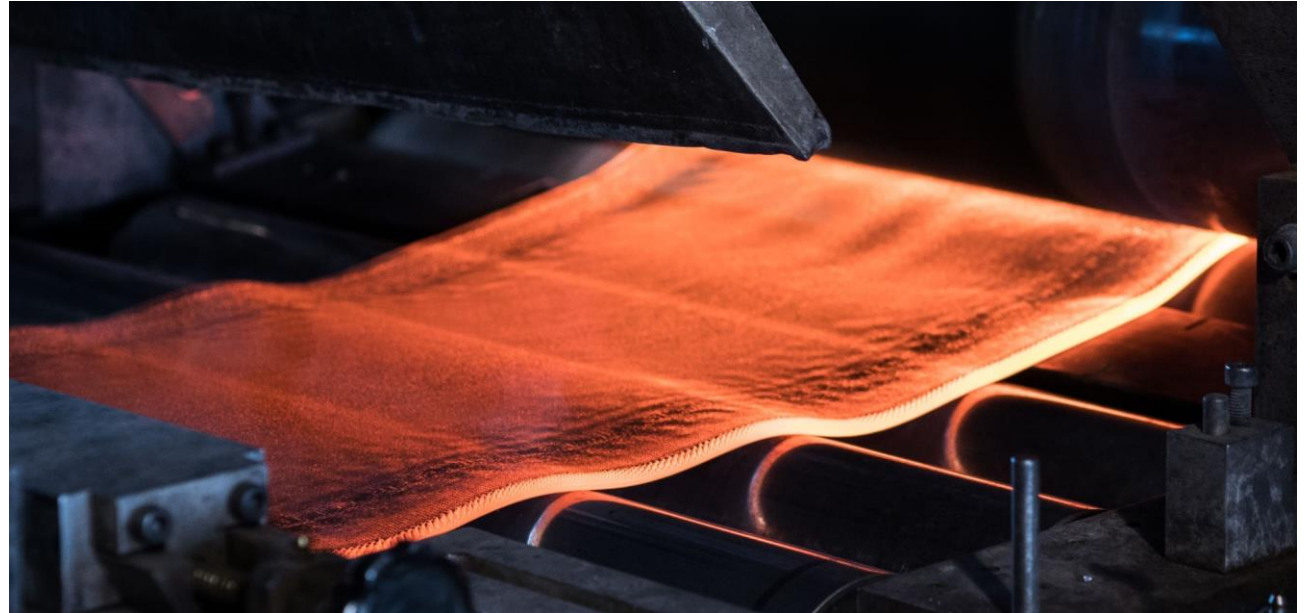
窑炉
Furnace

玻璃成型 Glass Forming



采用德国最先进的第三代U型玻璃成型技术和夹丝系统，生产出高品质的产品以满足欧洲的质量要求。

Generation 3 U glass forming technology from Germany and advanced wiring system to achieve high quality meet European standard.



阿普尔顿成型

Appleton's glass forming process

退火 Annealing

独特的退火窑设计和精确的温度控制从而达到
良好应力分布和高品质的切割质量

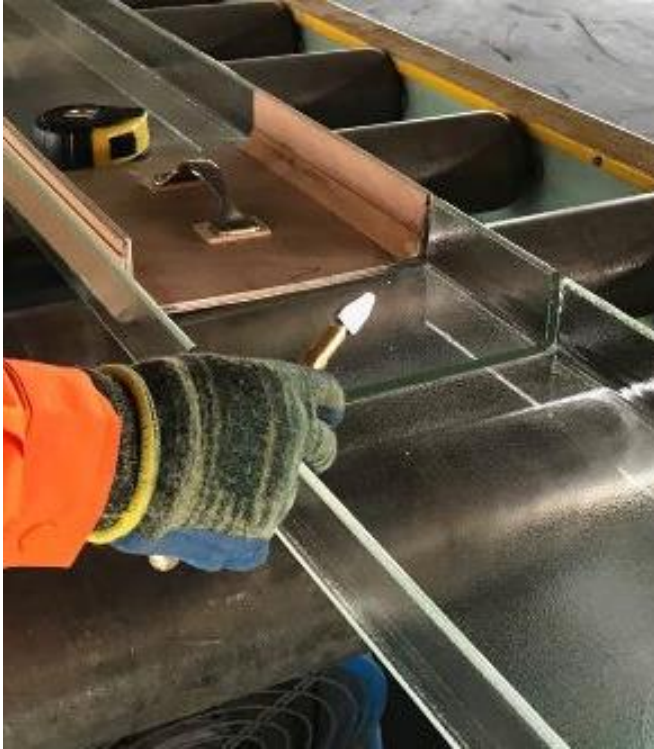
Special Lehr design & accurate process control
to achieve good cutting quality and stress
distribution.



阿普尔顿退火，在线生产超白夹丝U型玻璃

Appleton's glass annealing process, wired channel glass
production

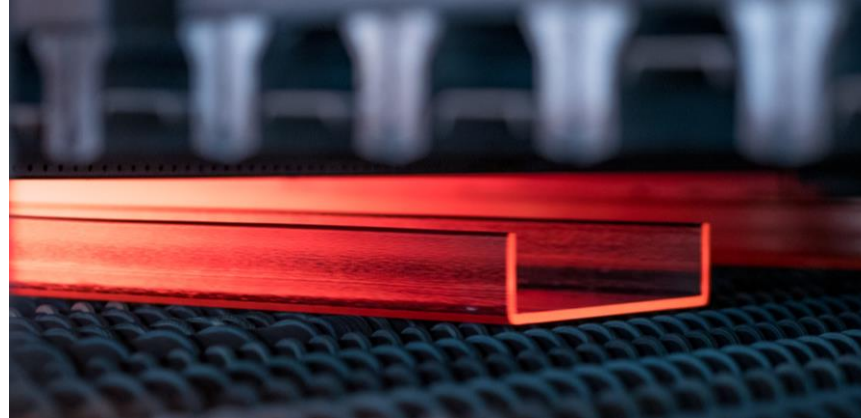
切割和包装 Cutting & Packing



极好的切割质量，精密的玻璃尺寸，标准的包装设计使玻璃能够在很低的破损率情况下达到长途运输的要求。

Excellent cutting quality, small size variation and perfect packing design to allow long distance transportation with low glass breakage rate.

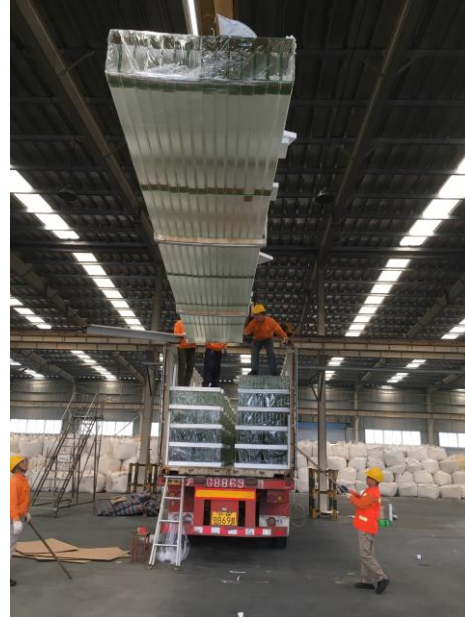
钢化 Toughening



欧洲进口的连续钢化炉具有先进的工艺控制手段，不仅使玻璃钢化后强度达到要求（4倍于原片玻璃），而且钢化后的尺寸也能达到严苛的欧洲标准和国内的CCC 要求。

European made continuous toughening furnace with State of art process control technology. To achieve not only mechanical strength (4 times stronger than anneal glass) but also size tolerance within EU standard.

存贮和装车 Storage & Loading



没有极好的玻璃尺寸，很难实现7层
堆放和7米长28片每包一次吊装

Without excellent and accurate size
control, it's not possible stock glass
in 7 layers and loading container
with 7 meters long & 28 pc pack. .

阿普尔顿U型玻璃场存贮高达7层，装车高达5层
Appleton's channel glass storage & loading



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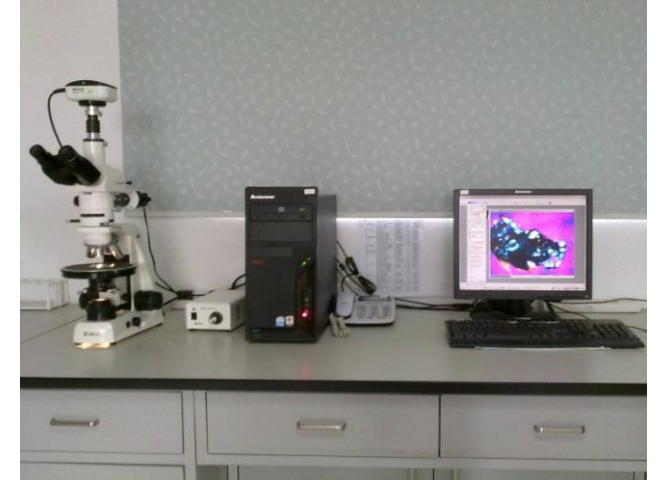
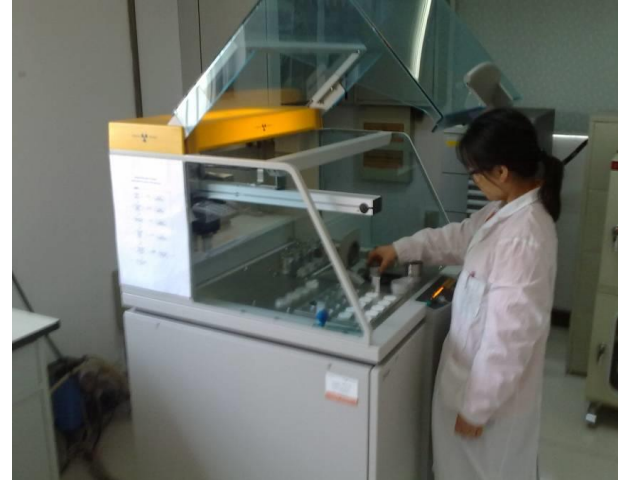
04

质量控制

Quality Control

先进的实验室设备，原材料每次进货都会按照技术标准严格的检验；每天生产的玻璃也会送到实验室检验化学成份和透光率。

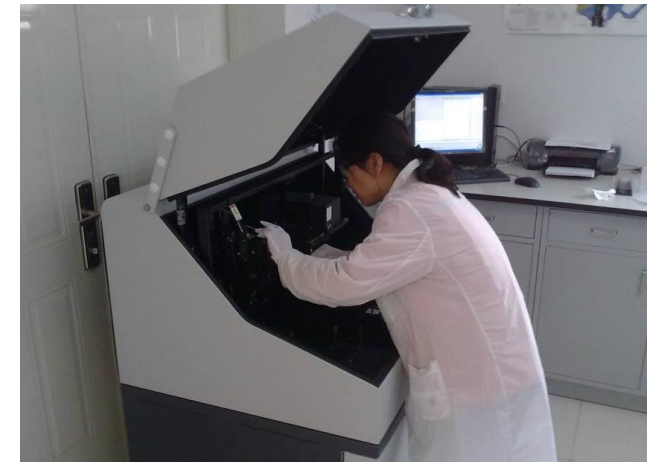
Advanced lab equipment, raw material was analyzed for every delivery according to specification and glass samples for each day production was send to lab for analysis to check chemical composition and light transmittance.



X-ray fluorescence

Microscope

Spectrometer



关键质量 EN 572-7

Critical to Quality EN 572-7

尺寸在允许的公差范围内是安装质量的关键要素。

阿普尔顿产品标准使用EN572-7。

Within the size tolerance is critical to installation quality.

Appleton products standard is EN572-7.

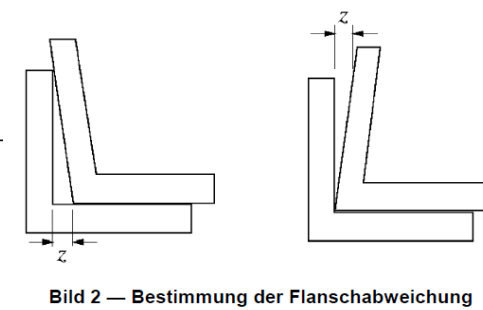
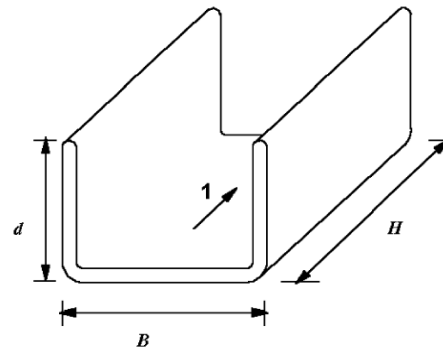


Bild 2 — Bestimmung der Flanschabweichung

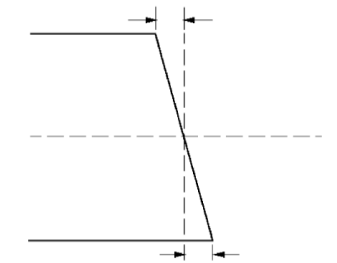


Bild 3 — Bestimmung der Rechtwinkligkeit des Schnittes

Standard 标准	Flange height d 法兰高度 d	Glass width B 玻璃宽度 B	Flange vertical z 法兰垂直度 z	Glass thickness 玻璃厚度	Glass length H 玻璃长度 H	Cutting squareness 切割平行度
EN572-7	± 1.0mm	± 2.0mm	< 1.0mm	± 0.2mm	± 3.0mm	< 3.0mm
JCT-867	± 2.0mm	± 2.0mm	< 2.0mm	± 0.5mm	± 3.0mm	N/A无要求

关键质量 572-1

Critical to quality EN 572-1

建筑用玻璃 钠钙硅酸盐玻璃
glass in building
basic soda lime silicate glass products.

Silicon dioxide (SiO ₂)	69 % to 74 %
Calcium oxide (CaO)	5 % to 14 %
Sodium oxide (Na ₂ O)	10 % to 16 %
Magnesium oxide (MgO)	0 % to 6 %
Aluminium oxide (Al ₂ O ₃)	0 % to 3 %
Others	0 % to 5 %

Low iron glass 超白玻璃
Iron level 含铁量

< 200 ppm

Light transmittance 透过光率

> 89.0% @ 7.0mm thickness
380~1100nm wave length

clear glass 透明玻璃
Iron level 含铁量

800~1200 ppm

Light transmittance 透过光率

> 83.0% @ 7.0mm thickness
380~1100nm wave length

产品标识 Product Labeling



ASG
APPLETON

阿普尔顿特种玻璃(太仓)有限公司
Appleton Specialty Glass (Taicang) Limited

产品标签
Product Label

产品 Product	优尼普®超白U型玻璃 Uniprof Low Iron U-profiled Glass
型号 Type	K25/60/7 wired clear
花纹 Pattern	micro
长度 Length	2413mm
片数 Plate	14pcs
生产日期 Production Date	2018.3.6 14:25
生产组 Shift	C
检验员 Inspector	Y. Wang
质量等级 Quality	QC PASS

地址：江苏省太仓市陆渡镇三港工业园
Add: Sangang Industrial Zone, Ludu Town, Taicang City, Jiangsu Province
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网址：www.appleton.net.cn

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