CHEERMO

高茂光电
CHEERMO INDUSTRIAL

CHEERMO

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CHEERMO INDUSTRIAL

CHEERMO

创新产品手册
INNOVATIVE PRODUCT





关于我们 ABOUT US

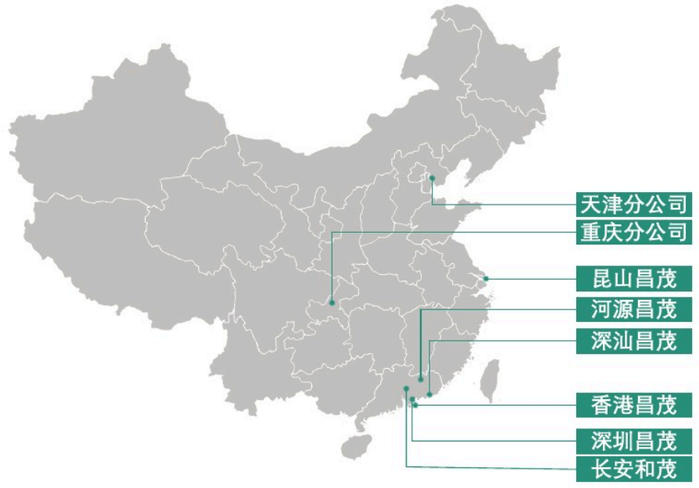
CHEERMO成立于1995年，集团总部位于深圳，下辖4个生产基地多个销售公司。

CHEERMO成立迄今已29年，以“粘贴仁慧，成就你我”为核心理念，始终专注于胶粘高分子新材料的研发、生产、销售和服务，在新材料标识领域，计算机智能标识，RFID领域，电子模切功能胶带，玩具标签领域等均取得了长足而稳定的发展，受到了社会各界和广大客户的信赖与赞扬，与一大批知名终端品牌及上市公司建立了长期合作关系，并成为了广大客户值得信赖的企业。

CHEERMO was founded in 1995, with its headquarters in Shenzhen and four production bases and multiple sales companies under its jurisdiction.

CHEERMO has been established for 29 years, with the core concept of "Paste kindness and wisdom, achieving you and me", and has always focused on the research and development, production, sales and service of adhesive polymer new materials. CHEERMO has made great and stable development in the field of new material identification, computer intelligent identification, RFID field, electronic die-cutting functional tape, toy label field, etc. By the community and the majority of customers trust and praise, with a large number of well-known terminal brands and listed companies to establish long-term cooperative relations, and become the majority of customers trusted enterprises..

CHEERMO，可靠的，非凡的
CHEERMO,Reliable,Remarkable



昌茂光电属下拥有深圳福永、江苏昆山、广东河源、深汕特别合作区共有4个生产基地，在香港、天津、重庆、深圳前海等地设立销售公司，是集研发、生产 、销售和服务为一体的新材料制造企业。公司创建于1995年2月，现有生产厂房180000m²，员工500余人(其中研发及技术人员占75%)。建有千级净化生产线20条，生产工艺已实现全自动化，涂布车间的建设领先于同行业，是目前中国胶粘制品行业的高品质、重环保的标杆企业。

CHEERMO Optoelectronics has four production bases in Shenzhen Fuyong, Jiangsu Kunshan, Guangdong Heyuan, Shenzhen-Shantou Special Cooperation Zone, and operates in Hong Kong, Tianjin,Chongqing,Shenzhen Qianhai and other places set up sales companies, is a research and development, production, sales and service as one of the new material manufacturing enterprises. CHEERMO was founded in February 1995.The existing production plant 180000m², more than 500 employees (including R & D and technical personnel accounted for 75%). There are 20 thousand purification production lines, the production process has been fully automated, the construction of coating workshop is ahead of the same industry, is currently China's adhesive products industry of high quality, heavy environmental protection benchmarking enterprises.

4
生产源区
Production Source Area

180000m²
生产厂房
Production Plant

20条
千级净化生产线
Class 1000 Cleanroom
Production Lin

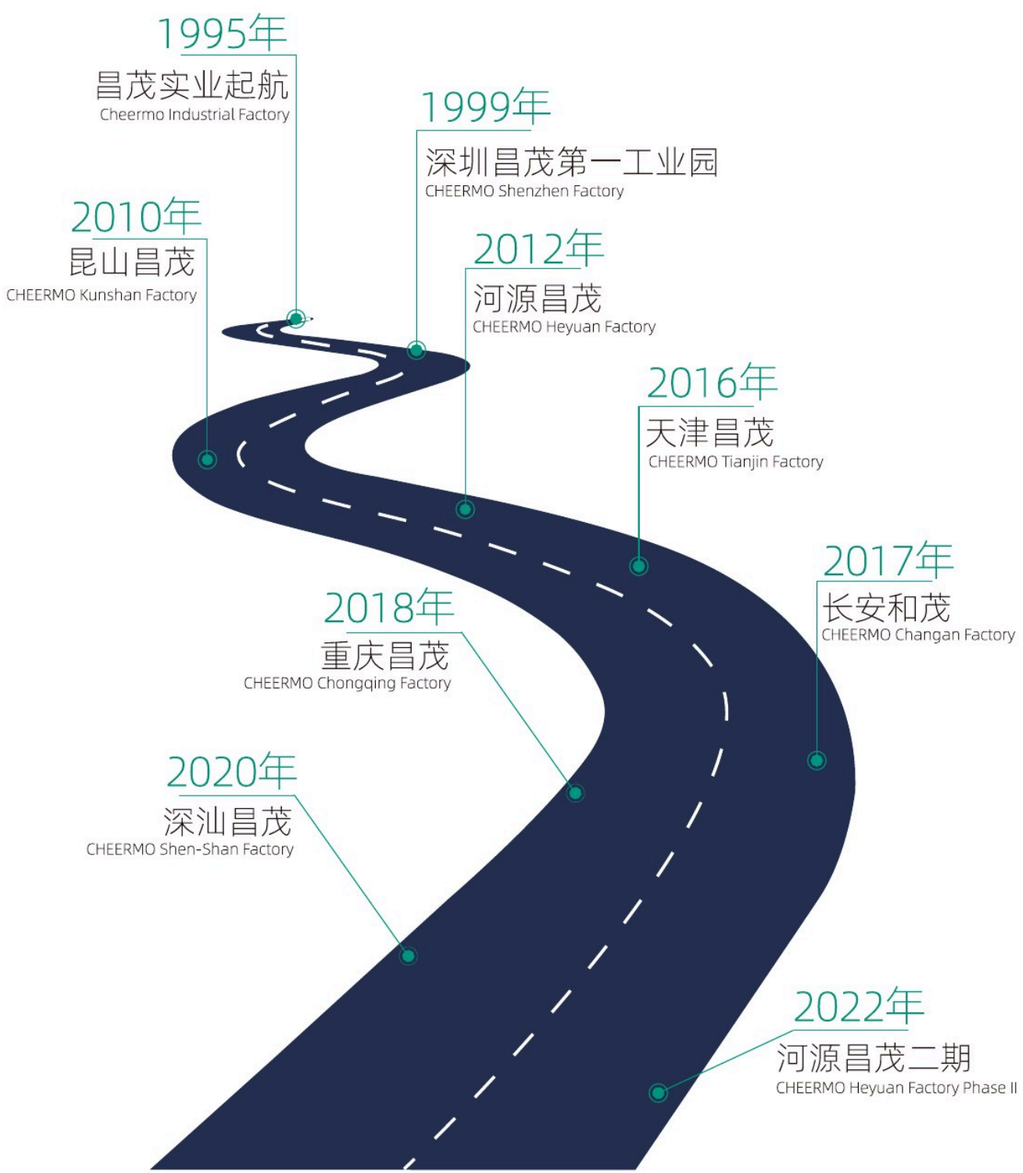
75%
技术人员占比
Technical Staff Ratio

More than 500
员工人数
Number Of Employees

100+
持有发明专利
Holding Patented Inventions

发展历程
HISTORY OF DEVELOPMENT

专注于胶粘高分子新材料创新的历史 | The focus is on the historical development of adhesive polymer innovation.



所获荣誉
PATENT CERTIFICATION

长久以来，CHEERMO一直在获得各种各样具有影响力的认证。截止目前CHEERMO拥有完整的窗膜生产及品质认证，确保产品质量，使全球客户用得安心、放心。先进的生产工艺和出色的产品性能造就了CHEERMO品牌美誉。

CHEERMO has been obtaining various influential certifications over a long period of time. As of now, CHEERMO possesses a comprehensive window film production and quality certification to guarantee product quality, providing peace of mind and reassurance to global customers. The advanced production process and outstanding product performance give rise to the CHEERMO brand's reputation



CHEERMO凭借其深厚的行业积淀、卓越的技术实力以及不断创新的精神，公司成功获得了像IAFT 16949，ISO9001等等多项行业权威认可证书,赢得了业界的广泛认可.这些证书不仅是对公司产品质量、技术实力和服务水平的全面肯定，更是公司信誉与品牌价值的坚实基石。它们见证了公司在行业内的不断突破与进取，为公司未来的发展奠定了坚实的基础。

With its profound industry experience, outstanding technical capabilities, and relentless spirit of innovation, CHEERMO has successfully obtained numerous industry-recognized authoritative certificates such as IATF 16949 and ISO9001, earning widespread recognition from the industry. These certificates not only serve as a comprehensive affirmation ofthe company's product quality, technical prowess, and service standards but also form a solid foundation for its reputation and brand value. They bear witness to CHEERMO's continuous breakthroughs and progress within the industry, laying a solid groundwork for the company's future development.

COMPOSITION OF WINDOW FILM

窗膜的构成结构



全新技术进阶，阻隔热量穿透

With the advancement of brand-new technology
,heat penetration is effectively blocked

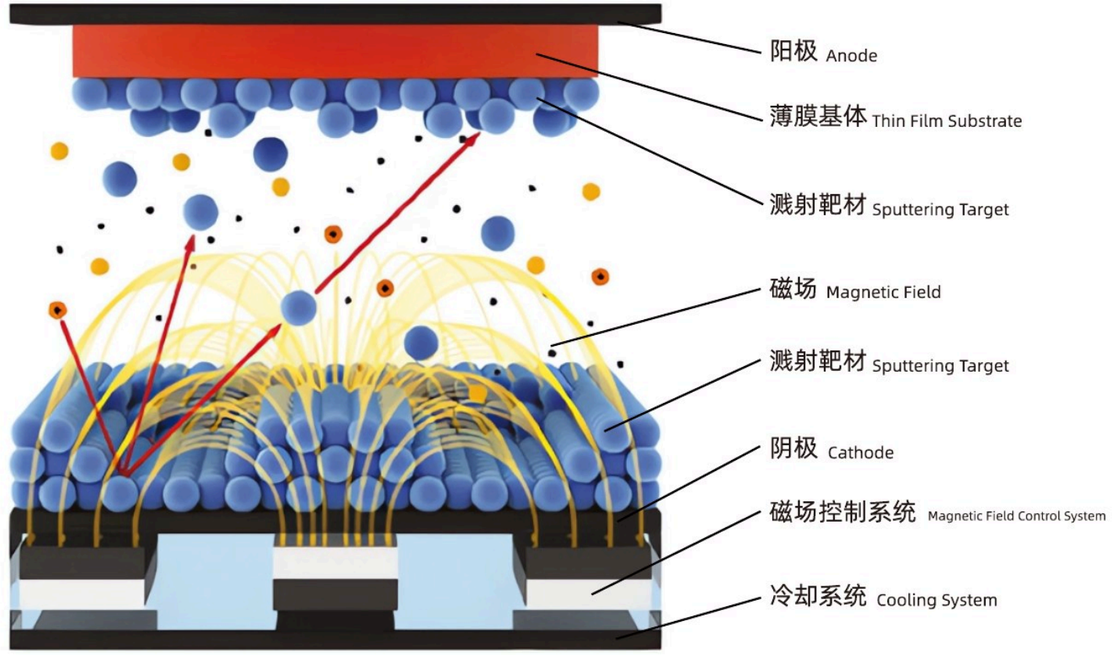
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磁控溅射工艺

MAGNETRON SPUTTERING PROCESS

CHEERMO通过长期研究与测试，获得了多层贵金属磁控溅射隔热膜的专利。将镍、银、钯等多种贵金属采用磁控技术，生产出一层金属高性能隔热膜，有效持久阻隔热能，减少汽车能耗，高性能屏蔽红外线热能、无惧阳光直射。

Through long-term research and testing, CHEERMO has obtained a patent for a multi-layer precious metal magnetron sputtering insulation film. Using nickel, silver, platinum and other precious metals with magnetron technology, a layer of high-performance metal insulation film is produced, which can effectively and persistently block heat energy, reduce automobile energy consumption, and has high-performance shielding against infrared heat energy, fearless of direct sunlight.



可靠的合作伙伴
DEPENDABLE PARTNERS

150+
发明有效专利
Invention Patent

不断突破
技术的边界
Keep forging ahead at
the technological frontier

Achieve high efficiency
and stable quality
实现高效
与品质稳定

19条
高精密涂布机
High-precision coating machine

30台
精密分切机
Precision slitting machine

品质与产能
双重保障
Double guarantee of
quality and capacity

Meet international environmental
standard Create a better future
符合国际环保标准
创造更美好的未来

> 99.5%
VOCs排放处理效率
VOCs emission treatment efficiency

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WINDOWFILM SERIES
窗膜系列

坚持可持续发展 黏贴美好生活

开发不含有害物质的环保产品
定制更安全的智能化解决方案，为更美好生活 创造可持续的未来

Develop eco-friendly products devoid of harmful substances.
Customizesmarter and safer solutions to forge a sustainable future for a superior life

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六大功能
SIX MAJOR EFFECTS

UV防护
UV REJECTION

有效隔热
HEAT REJECTION

防眩光
ANTI-GLARE

极致清晰
ULTIMATE CLARITY

节省能源
ENERGY CONSERVATION

防老化
ANTI-FADING

Sputtering Series

S70

终身质保
Lifetime Warranty



73%	可见光透过率 (VLT)
87%	红外线阻隔率 (IRT)
99%	紫外线阻隔率 (UV)

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Sputtering Series

S40

终身质保
Lifetime Warranty



40% 可见光透过率 (VLT)

87% 红外线阻隔率(IRT)

99% 紫外线阻隔率 (UV)

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高清纳米陶瓷膜

HD nano-ceramic film

防晒隔热，视野清晰，缓解刺眼阳光带来不适

Sunscreen and heat insulation,
Clear vision, alleviate discomfort caused by glare from sunlight

Ultra-clear Nano Titanium Series

HD7095

质保8年
8 Year Warranty



71%	可见光透过率 (VLT)
96.5%	红外线阻隔率 (IRT)
99.8%	紫外线阻隔率 (UV)

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CHEERMO旗下窗膜，在保证更多可见光透过的同时，
又能阻隔99%的的紫外线进入，从而保护我们的人体肌肤，
保持隔热和视野清晰，营造舒适的驾乘环境。

CHEERMO's window films, while ensuring maximum visible light transmission, effectively block 99% of UV rays from entering, thereby protecting our skin. They also maintain heat insulation and clear visibility, creating a comfortable driving environment.



Ultra-clear Nano Titanium Series

HD4592

质保8年
8 Year Warranty



45% 可见光透过率 (VLT)

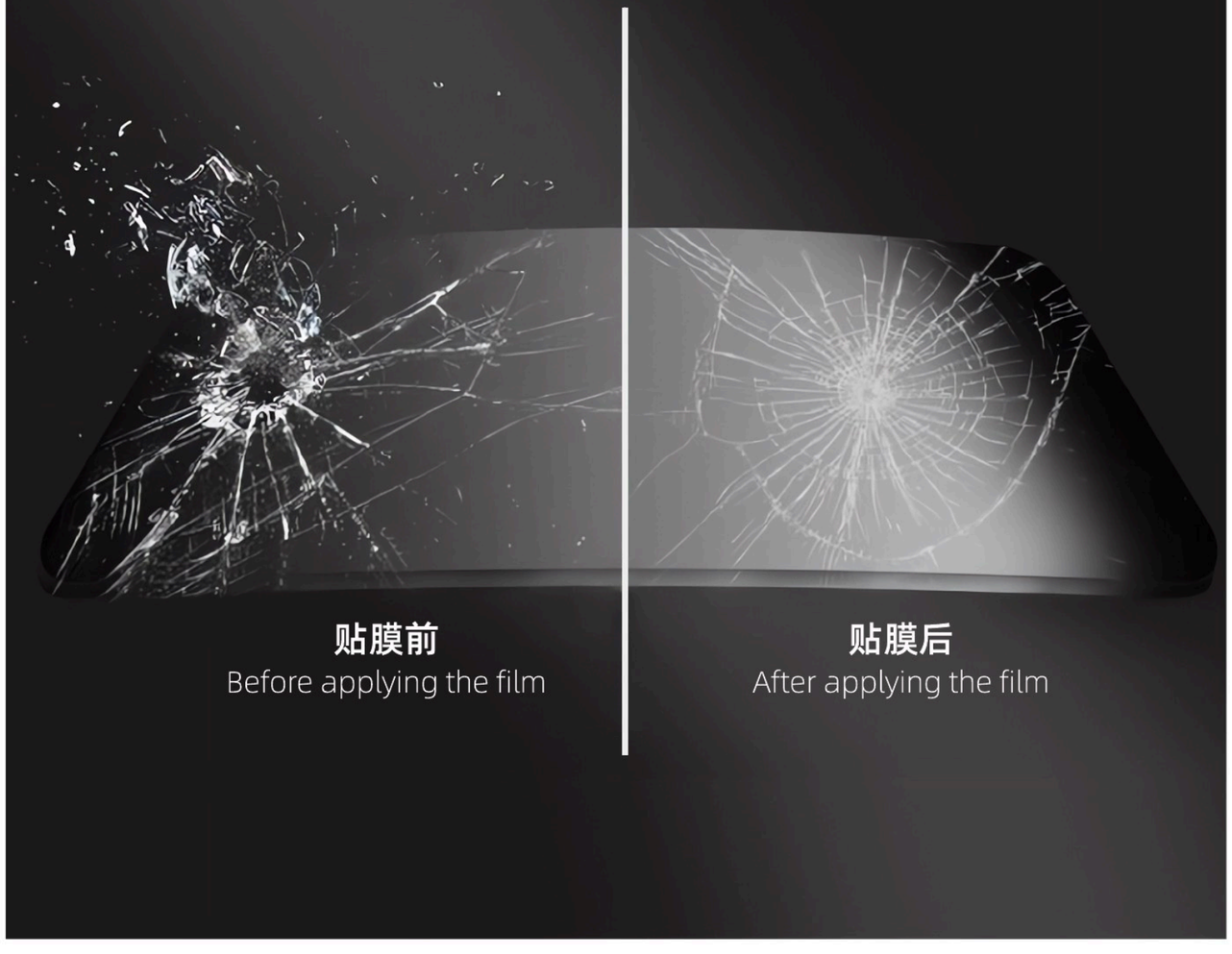
91% 红外线阻隔率 (IRT)

99.9% 紫外线阻隔率 (UV)

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性能优异的聚酯材料和超强粘附力相结合
保证了窗膜碎片牢牢吸附，减少玻璃飞溅的伤害

The combination of high-performance polyester material and super strong adhesion ensures that the window film fragments are firmly adsorbed, reducing the risk of glass splashing injuries.



贴膜前
Before applying the film

贴膜后
After applying the film

Ultra-clear Nano Titanium Series

HD3592

质保8年
8 Year Warranty



37%	可见光透过率 (VLT)
90%	红外线阻隔率 (IRT)
99.9%	紫外线阻隔率 (UV)



Ultra-clear Nano Titanium Series

HD1592

质保8年
8 Year Warranty



13% 可见光透过率 (VLT)

91.5% 红外线阻隔率 (IRT)

100% 紫外线阻隔率 (UV)

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纳米陶瓷材质，确保窗膜实现均衡的色泽和极高的清晰度，
夜间安驾驶，有效减少眩光。

The Nano-ceramic material ensures that the window film achieves balanced color and extremely high clarity, providing effective glare reduction for safe driving at night.

Ultra-clear Nano Titanium Series

HD0592

质保8年
8 Year Warranty



4%	可见光透过率 (VLT)
93.3%	红外线阻隔率 (IRT)
100%	紫外线阻隔率 (UV)

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信号“0”阻隔

SIGNAL “0” BLACK

纳米陶瓷不含金属 5G信号无干扰
Nano-ceramics contain no metal & cause no 5G signal interference

信号更强 拒绝失联
Stronger signal, no more losing connection



Nano Ceramic Series

Nano 85

质保5年
5 Year Warranty



85%	可见光透过率 (VLT)
46%	红外线阻隔率 (IRT)
99.8%	紫外线阻隔率 (UV)

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**“给车窗穿上‘未来战衣’，纳米科技，
让爱车在街头巷尾成为最耀眼的焦点”**

"Equip your car windows with a 'Future Armor' made of nanotechnology,
turning your ride into the most dazzling spotlight on every street corner."

Nano Ceramic Series

Nano 80

质保5年
5 Year Warranty



80%	可见光透过率(VLT)
75.5%	红外线阻隔率 (IRT)
99.8%	紫外线阻隔率 (UV)

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Nano Ceramic Series

Nano 7092 Blue

质保5年
5 Year Warranty



70%	可见光透过率 (VLT)
92%	红外线阻隔率 (IRT)
99.8%	紫外线阻隔率 (UV)



Nano Ceramic Series

Nano 7092 Gray

质保5年
5 Year Warranty



65%	可见光透过率 (VLT)
92%	红外线阻隔率 (IRT)
99.8%	紫外线阻隔率 (UV)

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“高清窗膜，以卓越的清晰度和均衡的色泽，为每一次出行带来非凡的视觉体验”

High-definition window film, with exceptional clarity and balanced color, brings an extraordinary visual experience to every journey

Nano Ceramic Series

Nano 5092

质保5年
5 Year Warranty



50% 可见光透过率 (VLT)

92% 红外线阻隔率 (IRT)

99.9% 紫外线阻隔率 (UV)

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透光隐私，融合艺术，旅程尽享专属静谧空间
车内视野清晰，有效阻挡外界窥视，保护隐私
Light & Privacy, Fused with Artistry: Embrace Your Exclusive Serenity on Every Journey
Clear visibility inside the vehicle, effectively blocking outside prying eyes for privacy protection

Nano Ceramic Series

Nano 2592

质保5年
5 Year Warranty



25% 可见光透过率 (VLT)

92% 红外线阻隔率 (IRT)

99.9% 紫外线阻隔率 (UV)

CHEERMO，可靠的，非凡的
CHEERMO,Reliable,Remarkable

Building Film Series

建筑膜系列

坚持可持续发展 黏贴美好生活

开发不含有害物质的环保产品
定制更安全的智能化解决方案，为更美好生活 创造可持续的未来

Develop eco-friendly products devoid of harmful substances.
Customizesmarter and safer solutions to forge a sustainable future for a superior life

“节约能源，减少碳排放”
Save energy and reduce carbon emissions

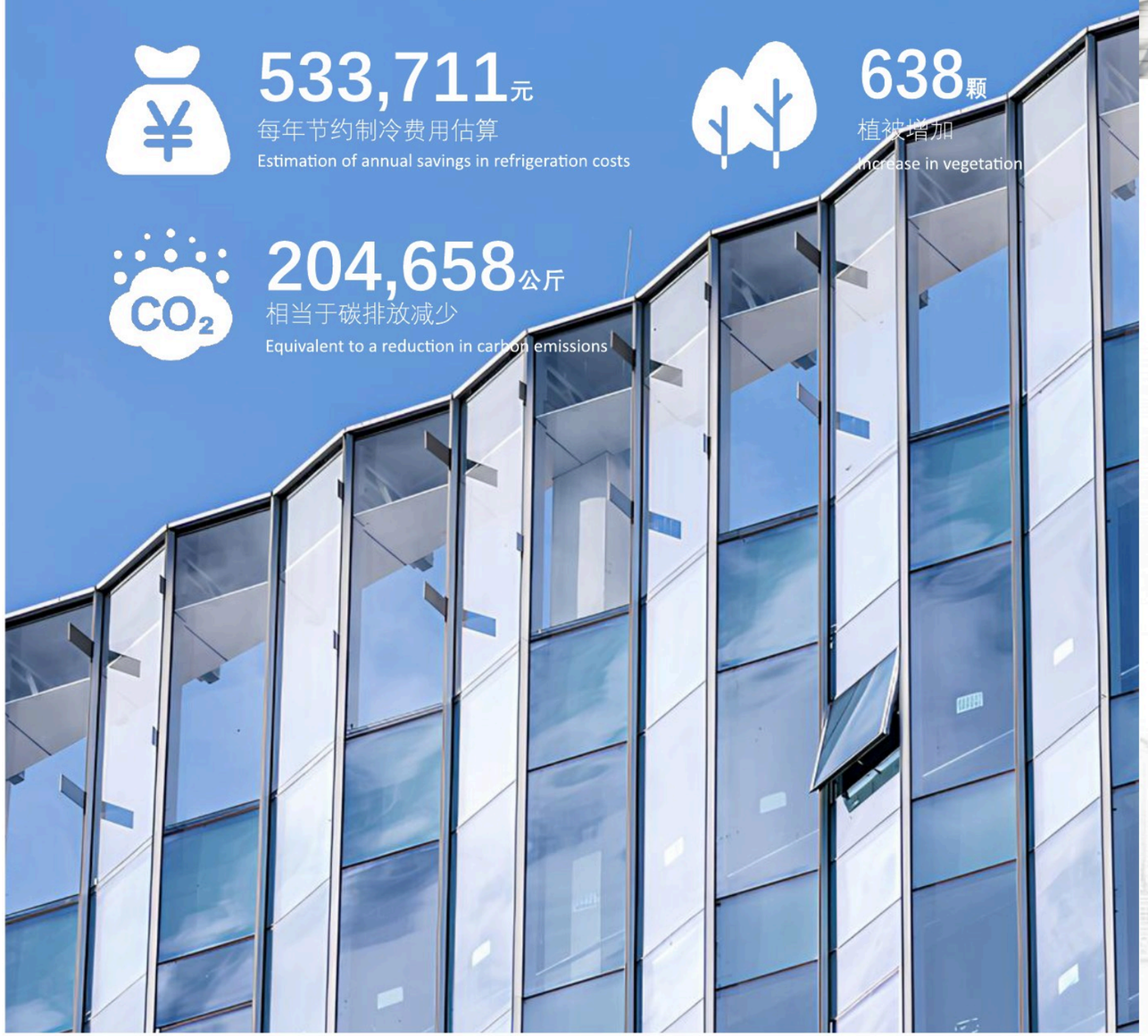
每2000平方米的窗户贴上建筑隔热膜后可省

After sticking the building insulation film on the windows of every 2000 square meters, energy can be saved

533,711元
每年节约制冷费用估算
Estimation of annual savings in refrigeration costs

638颗
植被增加
Increase in vegetation

204,658公斤
相当于碳排放减少
Equivalent to a reduction in carbon emissions





CHEERMO，可靠的，非凡的
CHEERMO,Reliable,Remarkable

“玻璃上的膜术”， 解译节能减排新密码
“The Art of Window Films” Decoding the New Password for Energy Saving and Emission Reduction.

紫外线防护：阻隔率超过99%，保护皮肤和家具免受紫外线伤害
Over 99% UV rejection rate, protecting skin and furniture from UV damage.

降温节能：可阻隔79%的太阳辐射，减少高达30%的冷气负荷，实现节能减排效果
It can block up to 79% of solar radiation heat.To reduce air-conditioning load by up to 30% and achieve energy saving and emission reduction effects.

经济耐用：功能多样，装饰性强，使用寿命长达15年以上
Multi-functional, decorative, with a long lifespan of over 15 years.

安全增强：防爆抗震，防止玻璃飞溅伤人，增强防盗性能
Explosion-proof and earthquake-resistant, preventing flying glass shards and enhancing security.

节能省电　　膜力降温　　无惧阳光

Energy Saving and Power Reduction, Membrane Power for Temperature Reduction, Unfazed by the Sun.

防晒隔热，阻隔紫外线

Sun protection and heat insulation, blocking ultraviolet rays



贴膜前，极少的阳光被阻隔在外，直射的太阳让室内像室外一样酷热;贴膜后，阻隔了大部分的有害紫外线，红外线等等，使室内光线变得柔和舒适，温度平衡同时保护室内，营造舒适清爽的居家环境。

Before the film is pasted, very little sunlight is blocked out, and the direct sunlight makes the indoor as hot as the outdoor; after the film is pasted, most of the harmful ultraviolet rays, infrared rays, etc. are blocked out, making the indoor light soft and comfortable, balancing the temperature while protecting the interior, and creating a comfortable and cool home environment.

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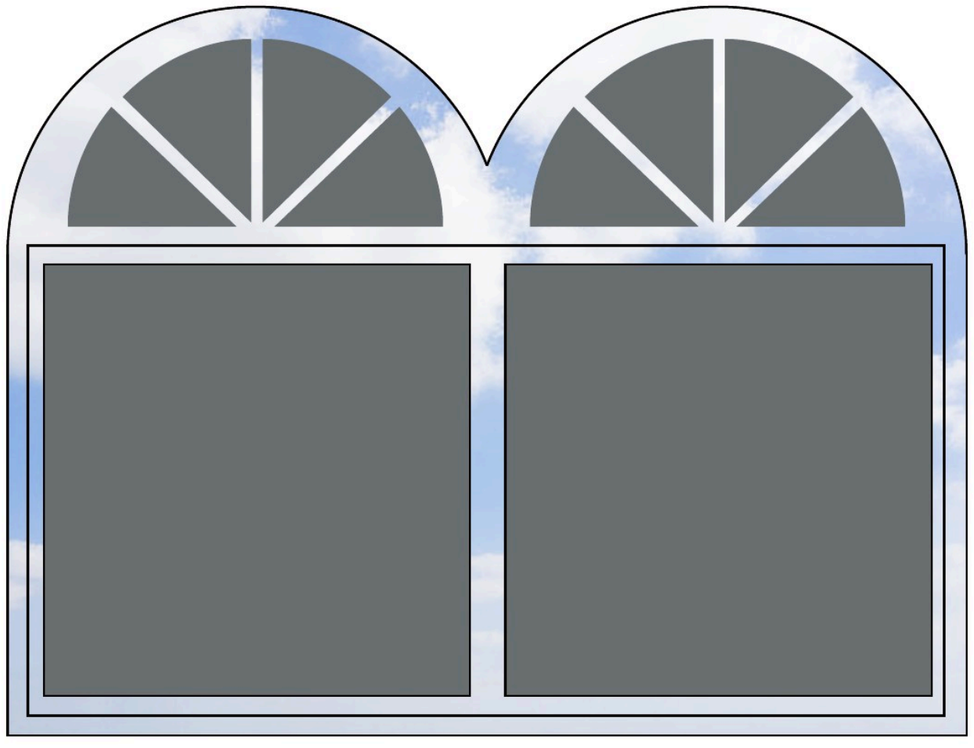
室内贴



室外贴



Gray Silver



26% 可见光透过率 (VLT)

81% 红外线阻隔率 (IRT)

99.6% 紫外线阻隔率 (UV)

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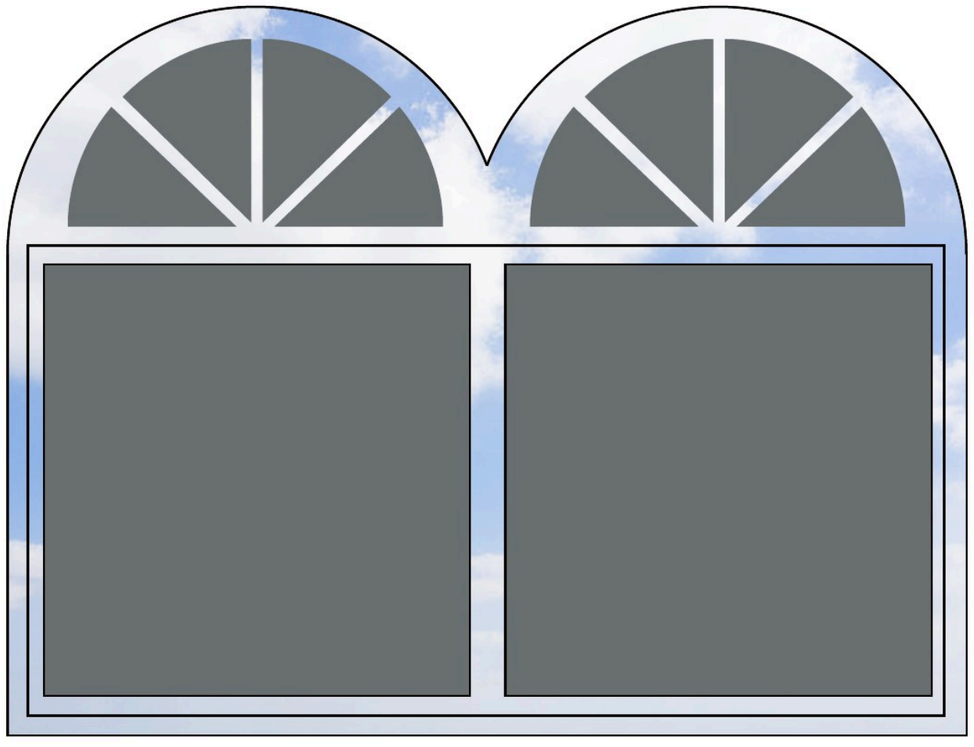
室内贴



室外贴



Black Silver



14% 可见光透过率 (VLT)

12.4% 红外线阻隔率 (IRT)

99.7% 紫外线阻隔率 (UV)

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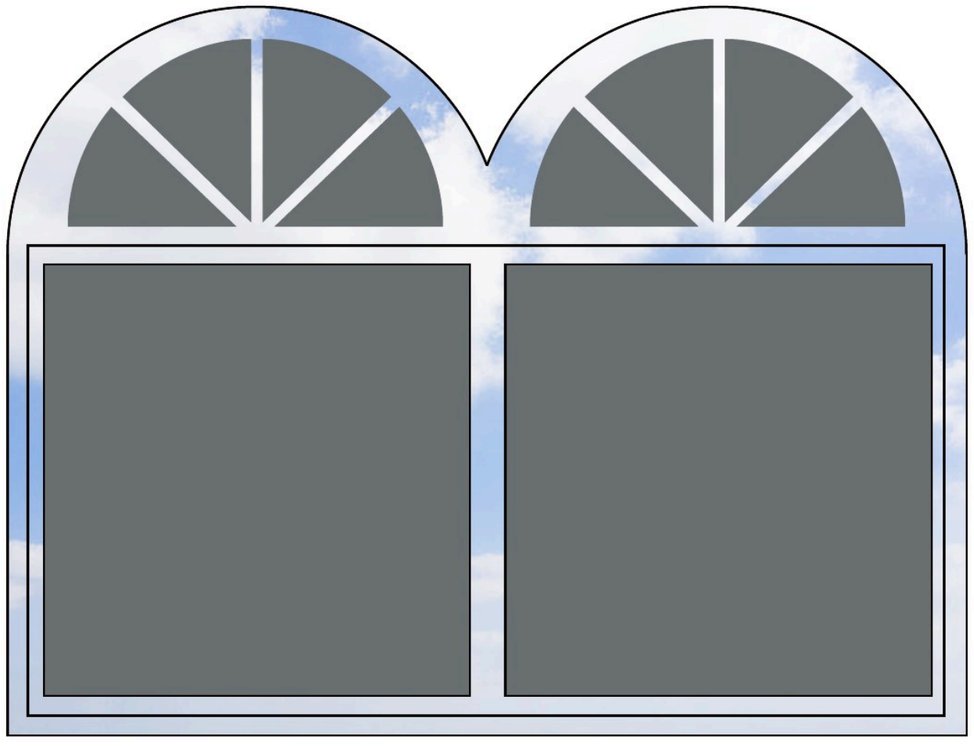
室内贴



室外贴



Deep Blue Silver



11% 可见光透过率 (VLT)

82% 红外线阻隔率 (IRT)

100% 紫外线阻隔率 (UV)

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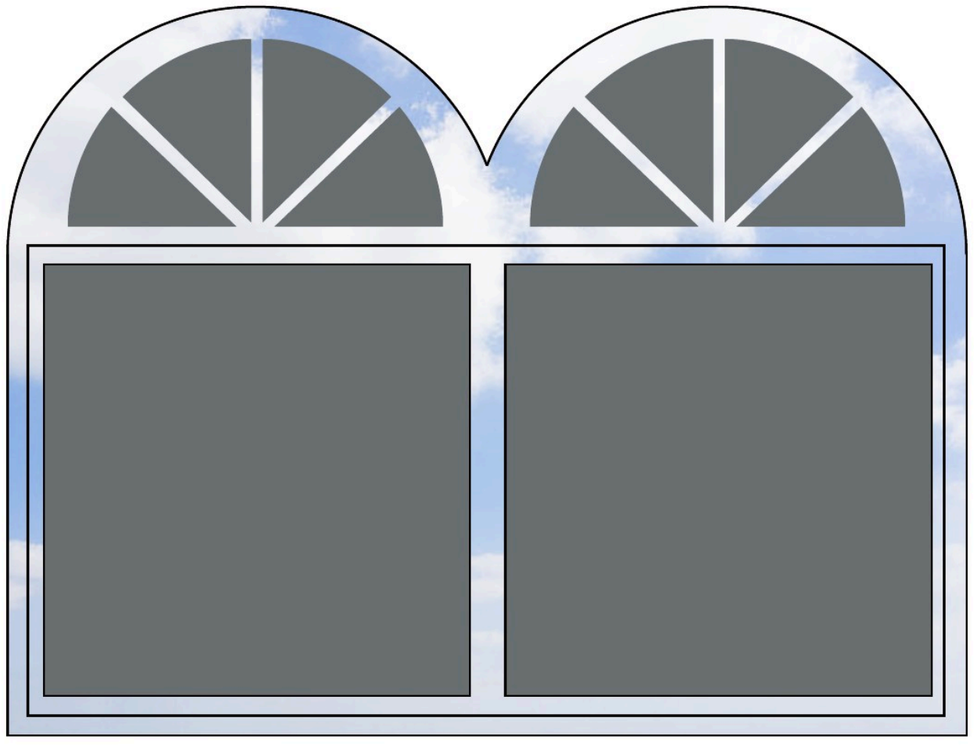
室内贴



室外贴



Green Silver



20% 可见光透过率 (VLT)

84% 红外线阻隔率 (IRT)

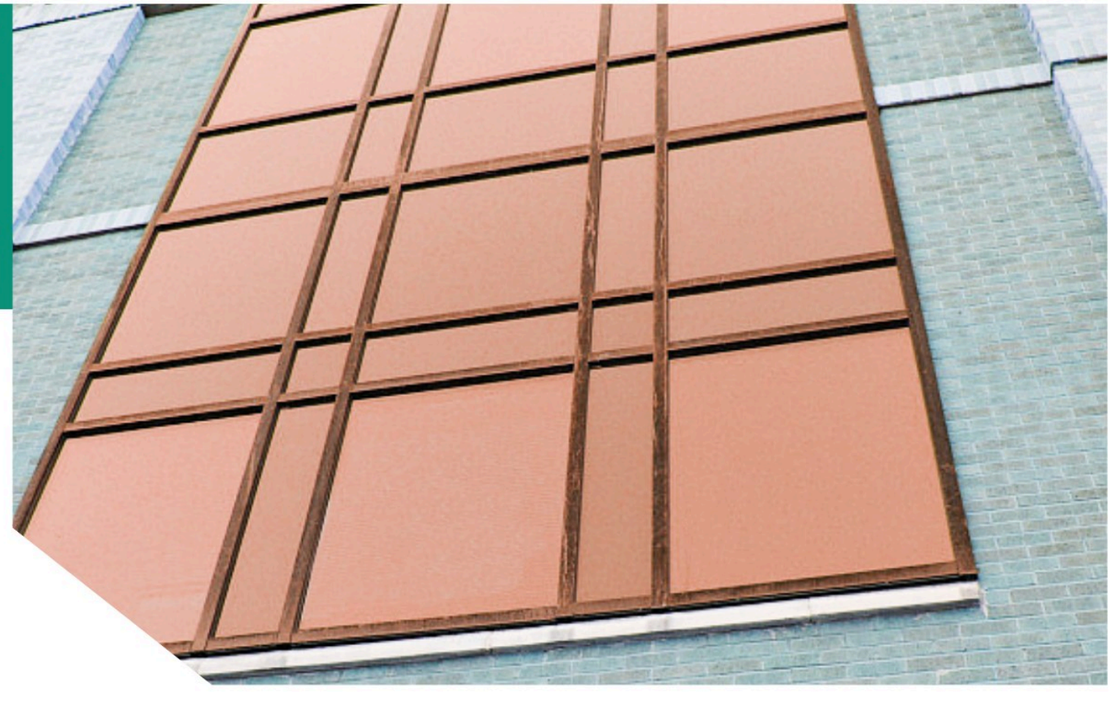
83.1% 紫外线阻隔率 (UV)

CHEERMO，可靠的，非凡的
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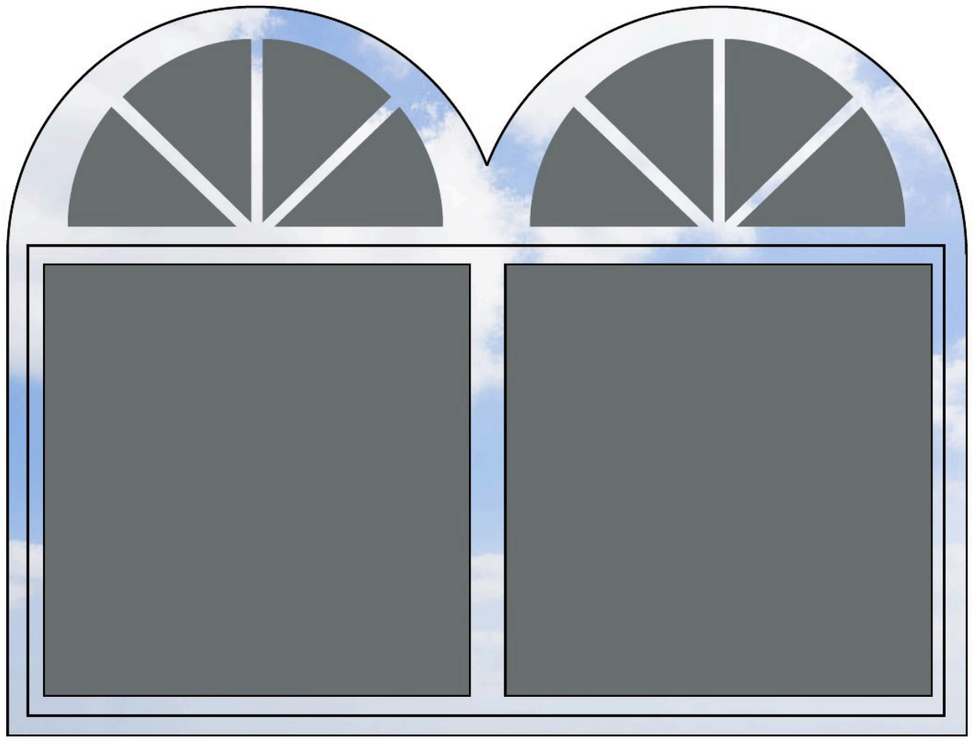
室内贴



室外贴



Red Silver



12% 可见光透过率 (VLT)

84% 红外线阻隔率 (IRT)

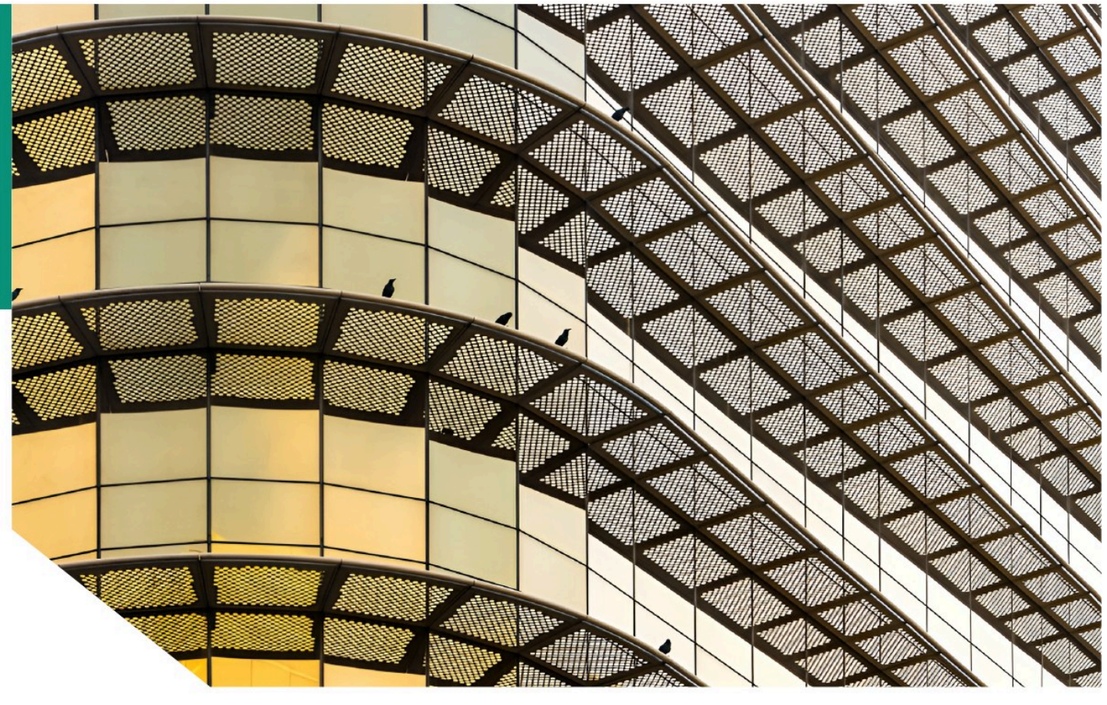
81% 紫外线阻隔率 (UV)

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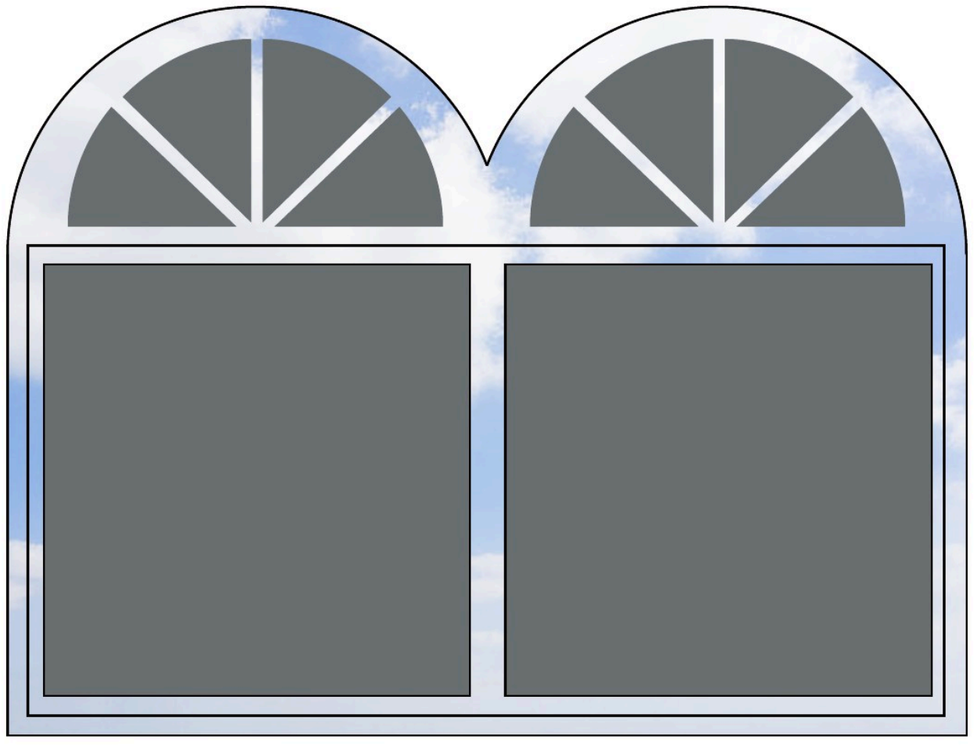
室内贴



室外贴



Gold Silver



29.7% 可见光透过率 (VLT)

72.6% 红外线阻隔率 (IRT)

99.4% 紫外线阻隔率 (UV)

CHEERMO，可靠的，非凡的
CHEERMO,Reliable,Remarkable

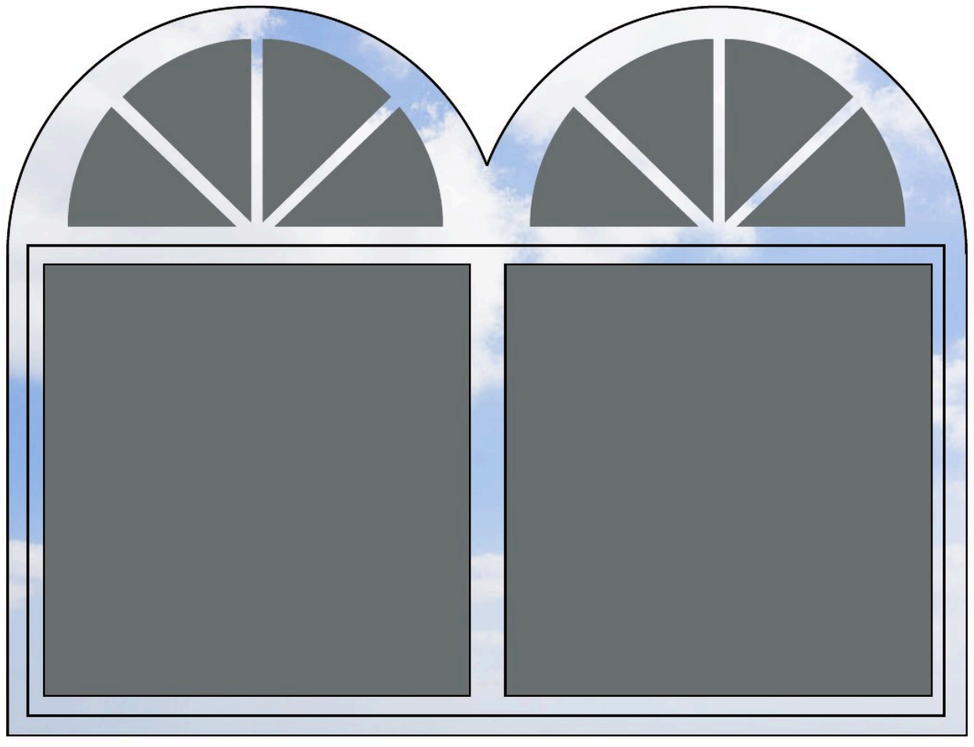
室内贴



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Blue Silver



23.7% 可见光透过率 (VLT)

74.4% 红外线阻隔率 (IRT)

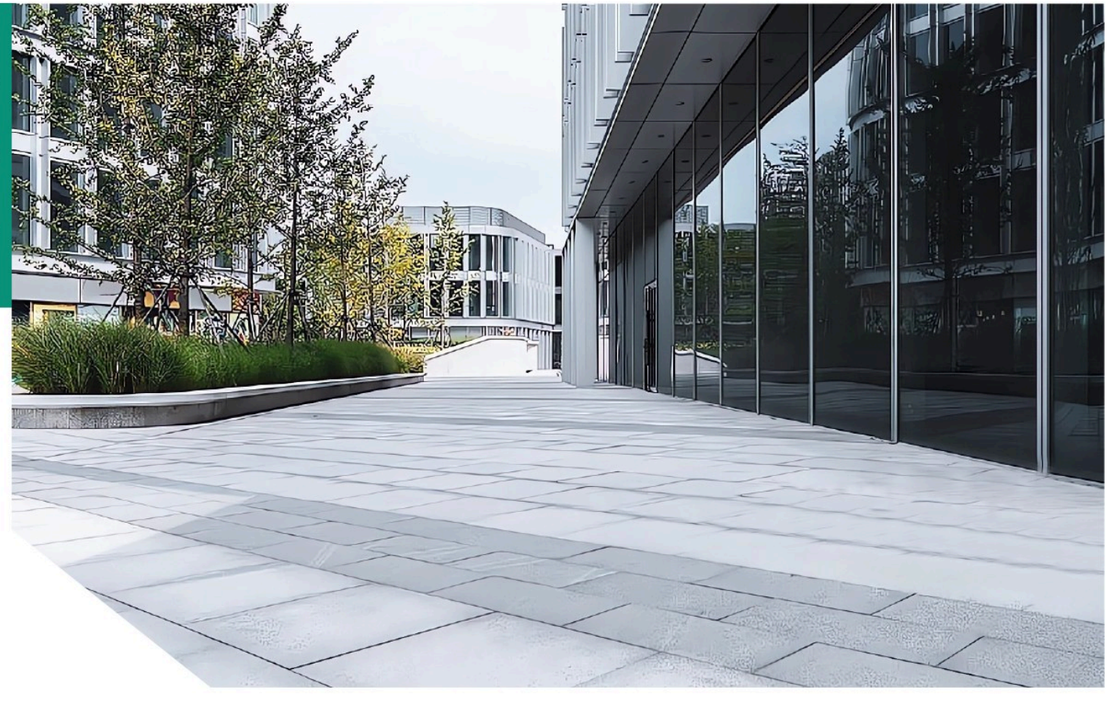
99.9% 紫外线阻隔率 (UV)

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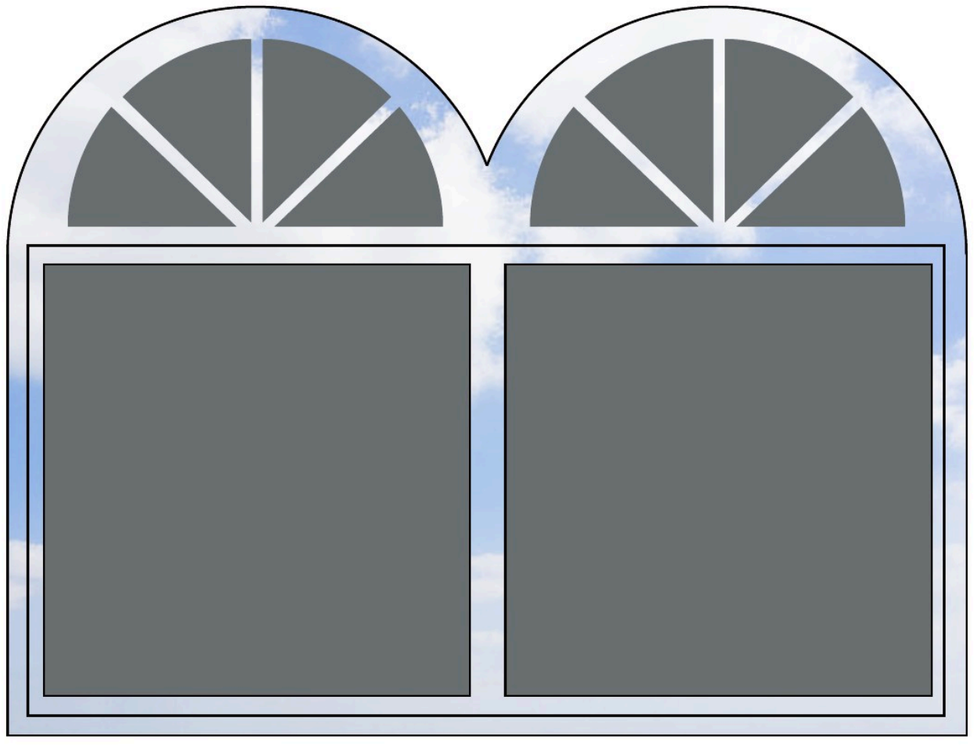


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Completely Black



2% 可见光透过率 (VLT)

12.2% 红外线阻隔率 (IRT)

98% 紫外线阻隔率 (UV)

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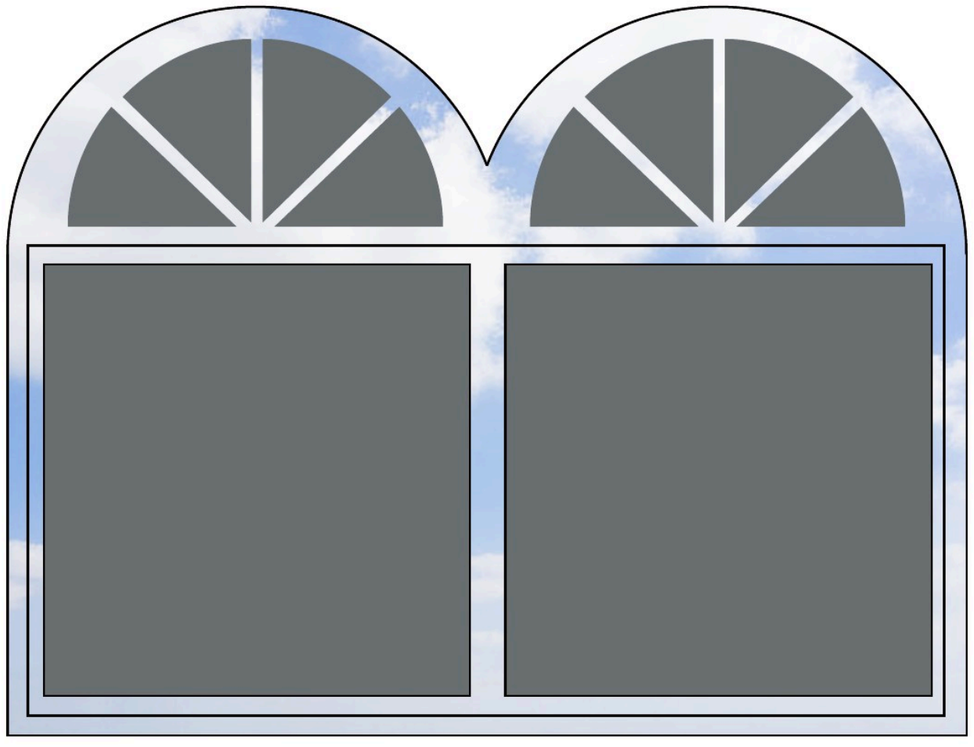
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White Matte



12.6% 可见光透过率 (VLT)

78.7% 红外线阻隔率 (IRT)

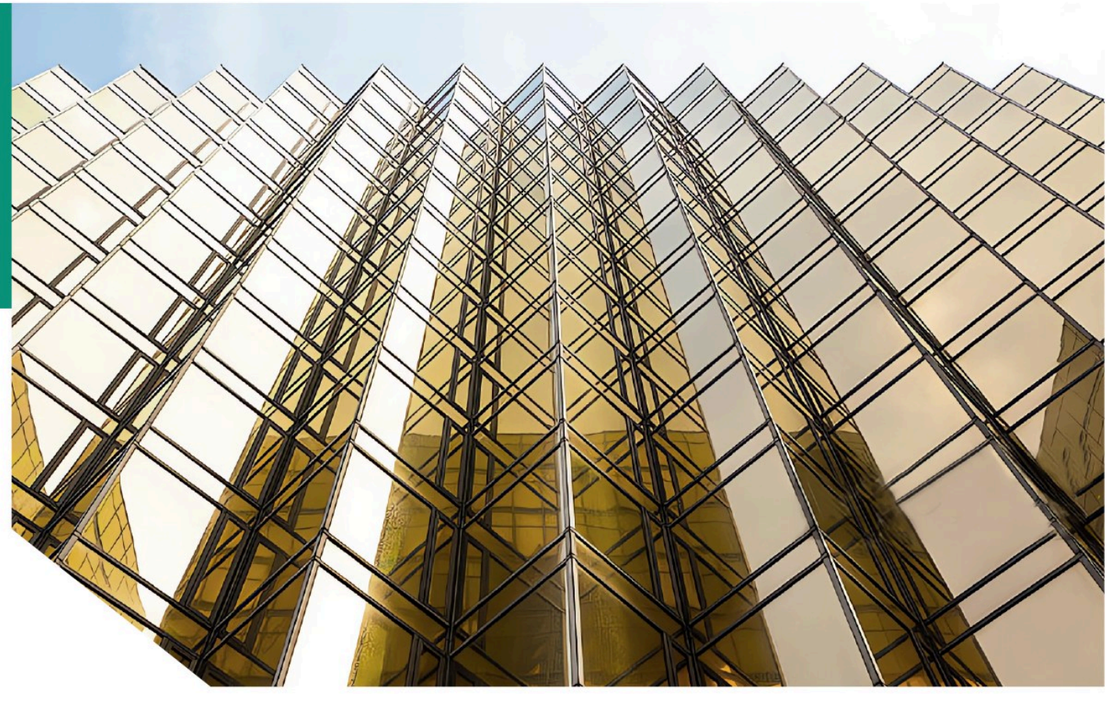
94.8% 紫外线阻隔率 (UV)

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CHEERMO,Reliable,Remarkable

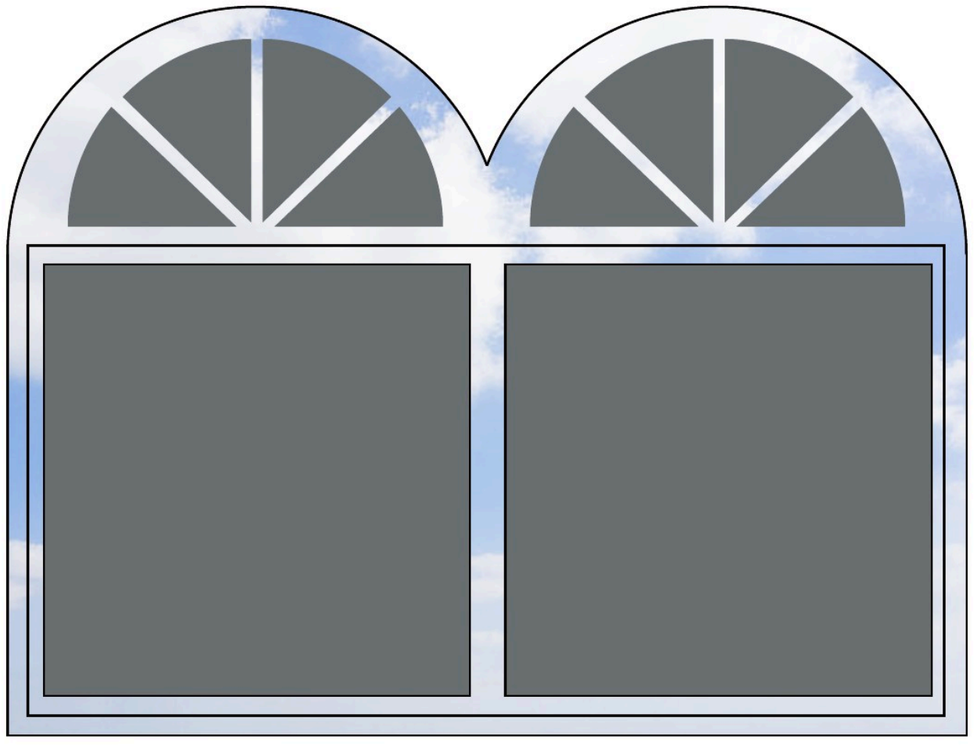
室内贴



室外贴



Tea Silver



16% 可见光透过率 (VLT)

77.3% 红外线阻隔率 (IRT)

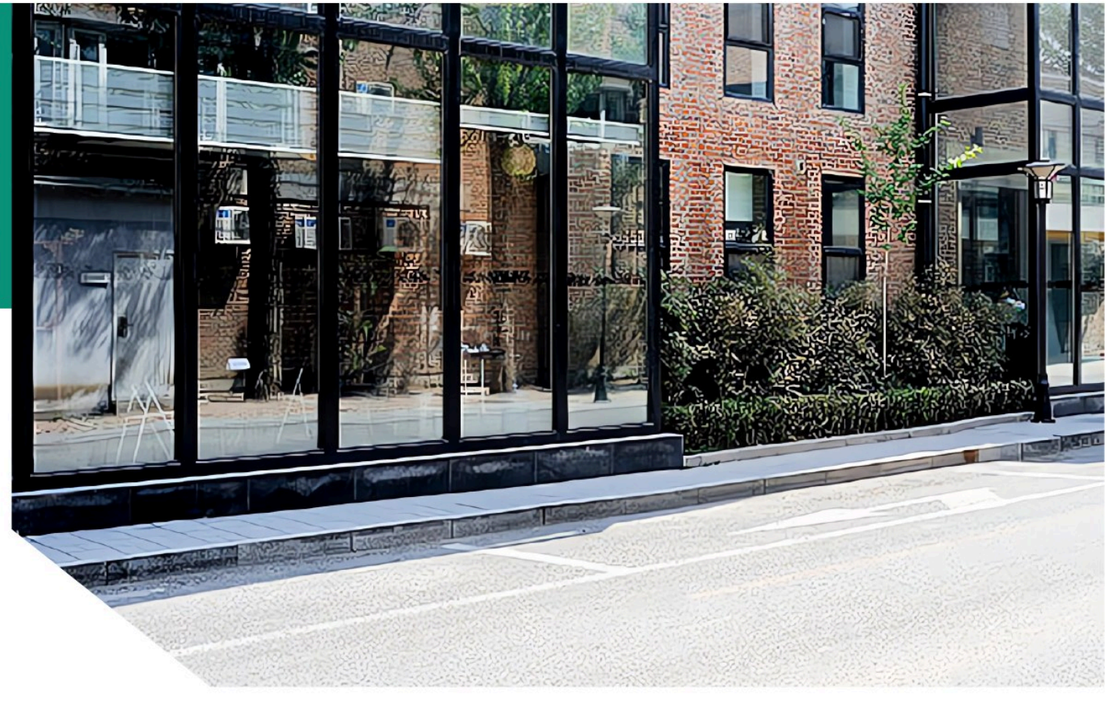
78.6% 紫外线阻隔率 (UV)

CHEERMO，可靠的，非凡的
CHEERMO,Reliable,Remarkable

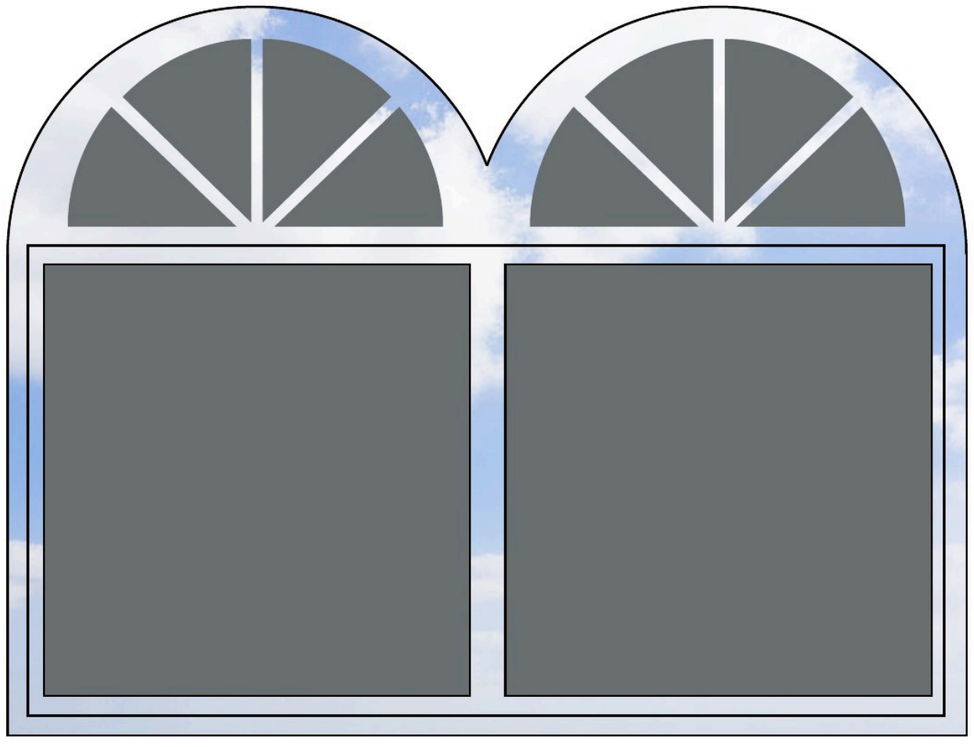
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Safety 4M



91% 可见光透过率 (VLT)

10.4% 红外线阻隔率 (IRT)

99% 紫外线阻隔率 (UV)

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CHEERMO,Reliable,Remarkable

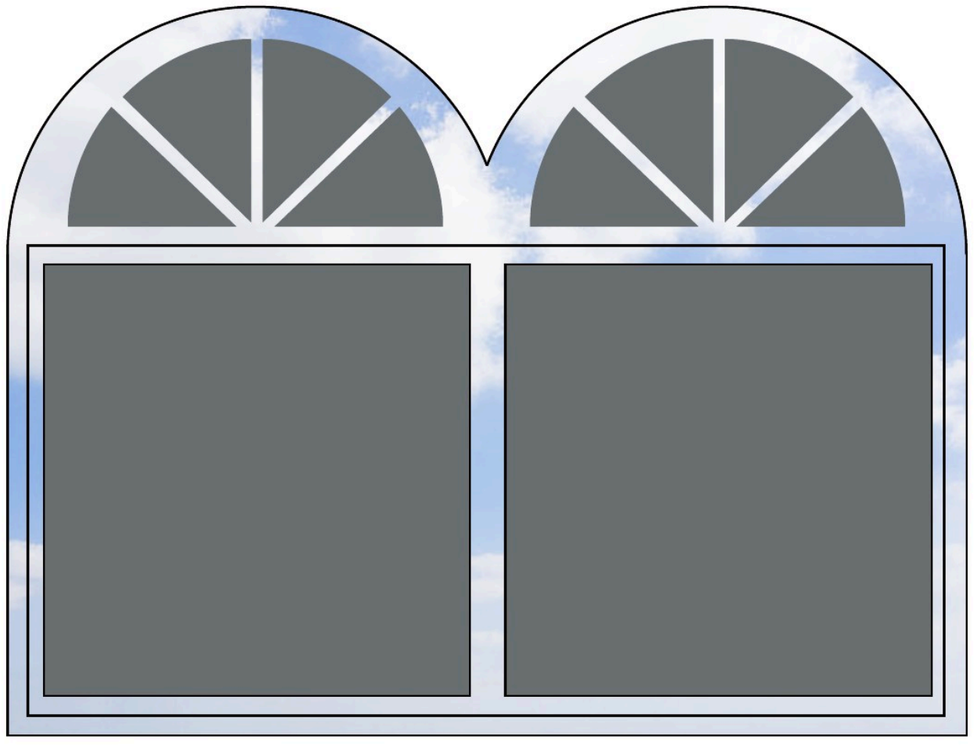
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Safety 8M



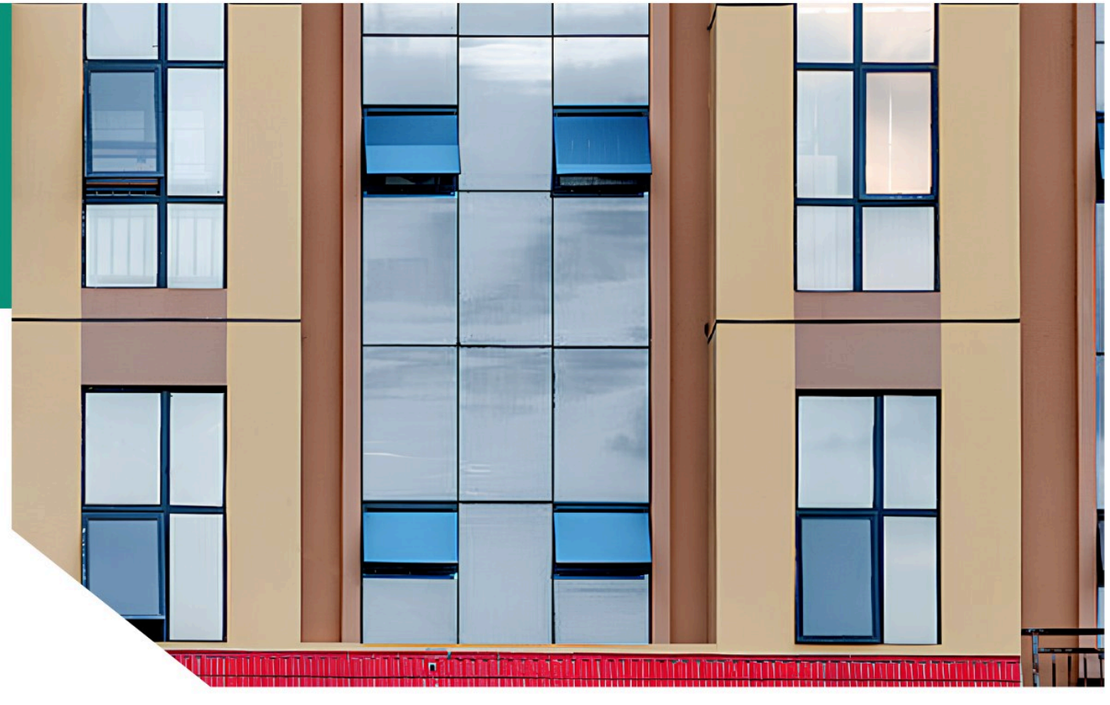
90.4%	可见光透过率 (VLT)	
11.6%	红外线阻隔率 (IRT)	
99%	紫外线阻隔率 (UV)	

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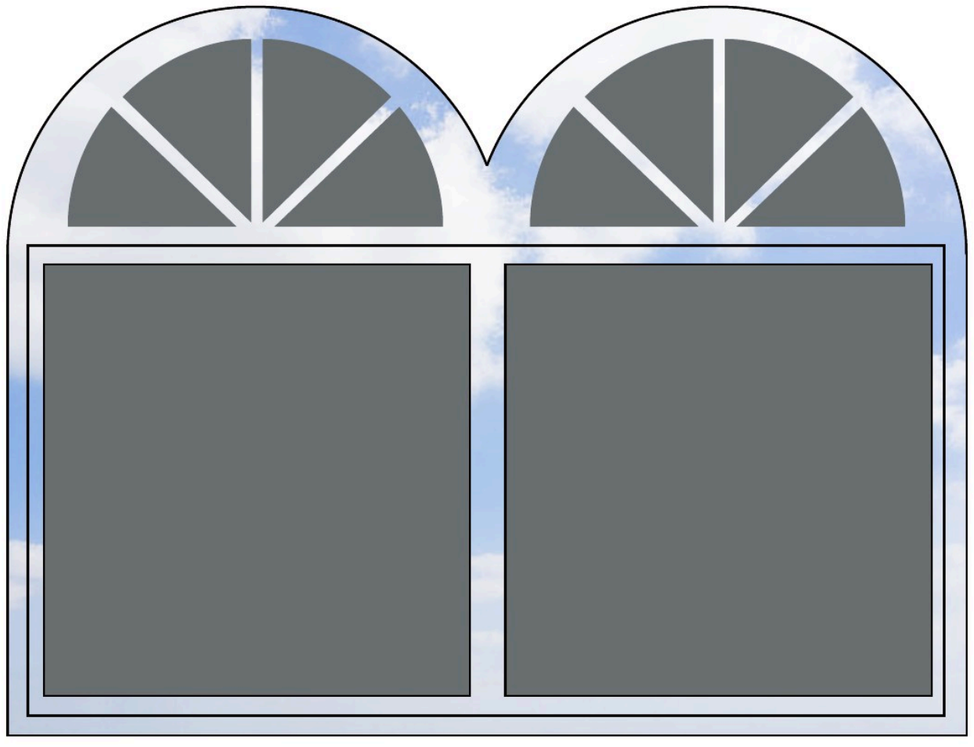
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Silver 15%



15%	可见光透过率 (VLT)
91%	红外线阻隔率 (IRT)
77.6%	紫外线阻隔率 (UV)

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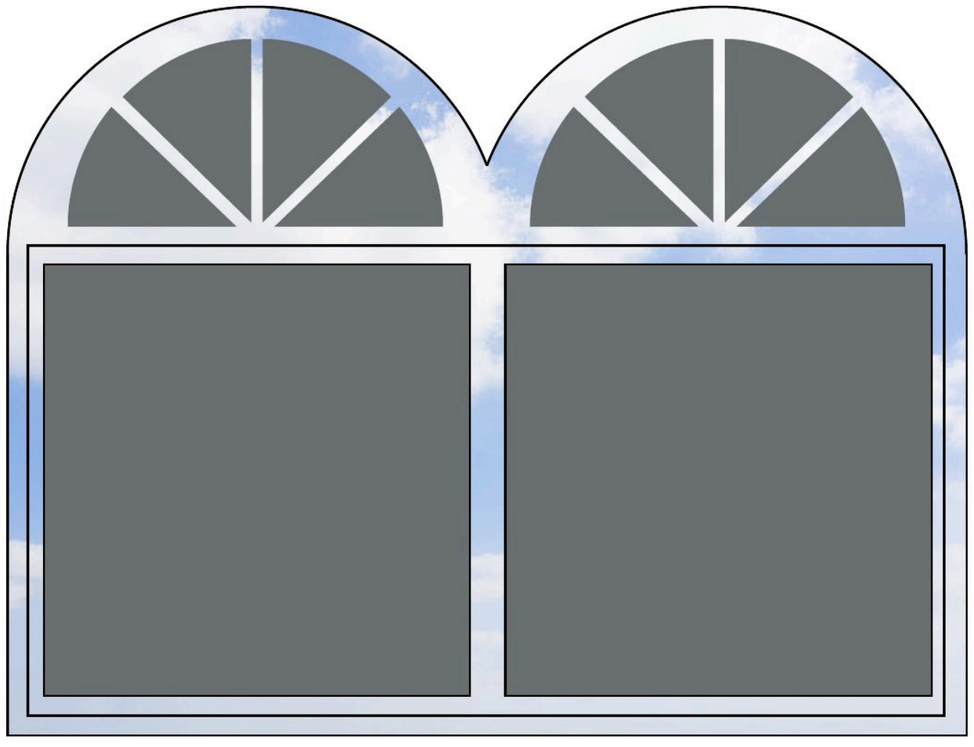
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Silver 20%



23% 可见光透过率 (VLT)

85% 红外线阻隔率 (IRT)

67% 紫外线阻隔率 (UV)

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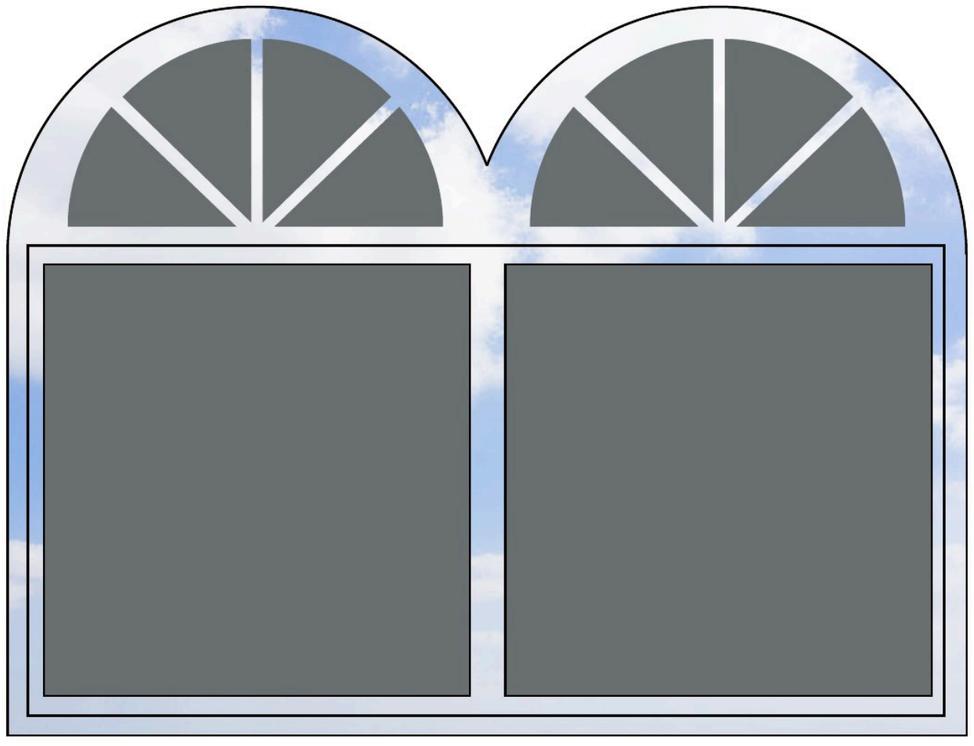
室内贴



室外贴



Silver 35%



37% 可见光透过率 (VLT)

73% 红外线阻隔率 (IRT)

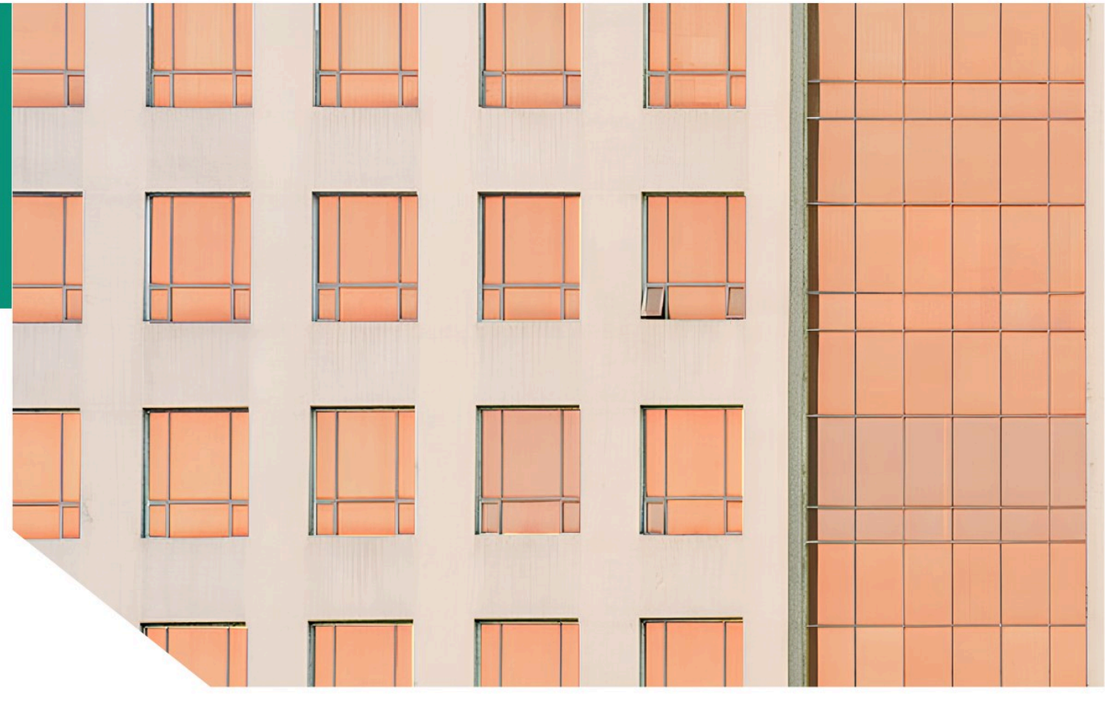
51% 紫外线阻隔率 (UV)

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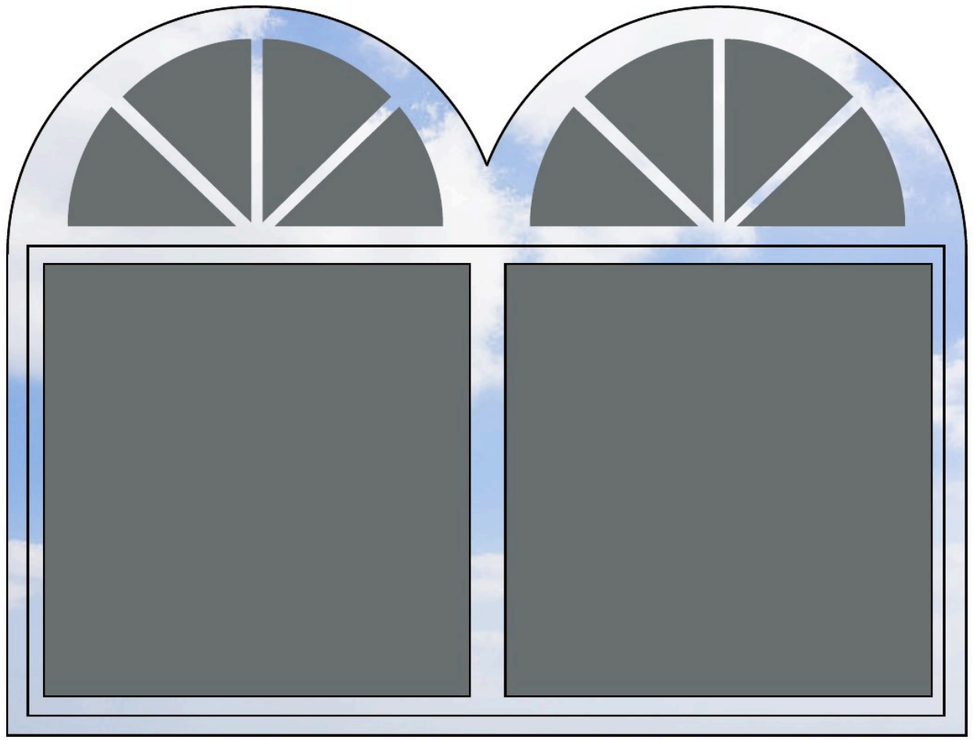
室内贴



室外贴



Copper Silver 15%



15% 可见光透过率 (VLT)

82% 红外线阻隔率 (IRT)

98% 紫外线阻隔率 (UV)

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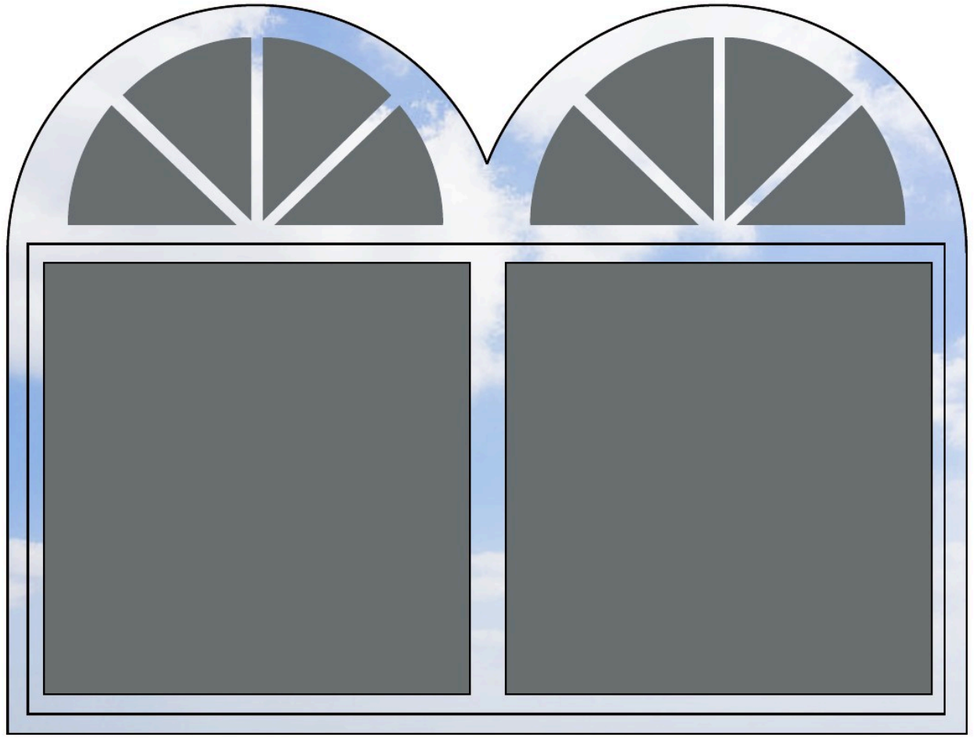
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室外贴



Copper Silver 35%



37% 可见光透过率 (VLT)

55% 红外线阻隔率 (IRT)

96% 紫外线阻隔率 (UV)

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关于昌茂CHEERMO
我们提供OEM & ODM的全面解决方案
根据客户每个产品的特殊性和需求
如何正确使用合适的解决方案是充满挑战的
根据每个产品的特殊性和需求
我们将会是您可靠的合作伙伴
帮助您定制和客制化符合市场需求的专属全面方案。

Coating process is what Cheermo Industry specializes in.
We provide a total solution for OEM and ODM.
The specificities and needs of each product are taken into account.
Using the correct solution can be a challenge.
We are here to be your reliable partner
Customizing exclusive comprehensive solutions that meet market needs.

El proceso de recubrimiento es en lo que se especializa Cheermo Industry—
Ofrecemos una solución total para OEM & ODM.
Se tienen en cuenta las especificidades & necesidades de cada producto.
Usar la solución correcta puede ser un desafío.
Estamos aquí para ser su socio confiable en la personalización de soluciones integrales exclusivas que satisfagan las necesidades del mercado.

昌茂会社産業Cheermo Industries当社について—
OEMおよびODM向けの包括的なソリューションを提供します。
各製品の特定の状況とニーズが考慮されます。
適切なソリューションを使用するのは難しい場合があります。
当社は、お客様の信頼できるパートナーとして、市場のニーズに合わせてカスタマイズされた独自の包括的なソリューションを提供します。

Beschichtungsverarbeitung ist Cheermo Industry spezialisiert—
Wir bieten eine Gesamtlösung für OEM und ODM.
Die Besonderheiten und Bedürfnisse jedes einzelnen Produkts werden berücksichtigt.
Die Verwendung der richtigen Lösung kann eine Herausforderung sein.
Wir sind hier, um Ihr zuverlässiger Partner bei der kundenspezifischen Entwicklung exklusiver Komplettlösungen zu sein, die den Marktanforderungen gerecht werden.

Cheermo,Reliable,Remarkable