

节能玻璃 Energy efficient glass

CRISLAN® /

低辐射

Low-E

选择性涂层

Selective Coatings



Myriad植物园 Myriad Botanical Gardens
俄克拉何马州 Oklahoma city, Oklahoma 2011
建筑师 Architect: Gensler - Washington DC

定义

Crislan®Low-E玻璃是曲面双层玻璃，与中空腔接触的玻璃表面覆有低辐射涂层，极大地降低了传热系数(U值)。在允许大部分短波太阳光穿过玻璃的同时，Low-E涂层将室内取暖设备产生的长波反射回室内。

普通12mm(中空腔1/2")中空玻璃的U值是2.80W/(m²K)(0.48BTU/(h° Fft²))，增加Low-E硬涂层之后，U值降至1.4W/(m²K)(0.246BTU/(h° Fft²))。若使用高选择性涂层，U值可进一步降至1.0W/(m²K)(0.176 BTU/(h° Fft²))。

U值越低表明玻璃两侧的热交换越缓慢。

市面上可热弯的涂层很少，基本都是热解涂层，性能远逊于平板玻璃使用的磁性或软涂层。但有了最新一代涂层和升级后的曲面玻璃退火炉和钢化炉，Crislan®Low-E玻璃现在能够为客户提供更多低辐射的解决方案，产品U值可媲美平板玻璃。

Definition

Crislan® Low-E is a curved double-glazing with a low emissivity coating on one of its glass surfaces (always facing the air cavity), reaching exceptionally low overall heat transfer coefficients (U-value). While the most of the solar radiation short wavelength goes through the glass, the Low-E reflects to the inside the most of the long wavelength radiation generated by heaters among others.

The U-value for a regular 12mm (1/2" air gap) double glazing is 2.80 W/m²K (0.48 BTU/(h °F ft²)). When adding a hard Low-E coating, the U-value is reduced down to 1.4 W/m²K (0.246 BTU/(h °F ft²)). If the coating is a high selectivity one, the U-value would be 1.0 W/m²K (0.176 BTU/(h °F ft²)).

The lower the U-value, the higher the efficiency in slowing down heat exchange at both sides of the glazing.

There are few coatings that can be bent, basically the pyrolytic ones with the drawback that their performance is still far from that of magnetron-ic or soft coatings, widely used in flat glass. It is thanks to the advances of the new generation of coatings along with innovation in annealing and tempering curved glass ovens, that Crislan® Low-E can already offer a broader range of low emissivity glazing solutions, being able to offer U-values as low as those found in the flat glass industry.

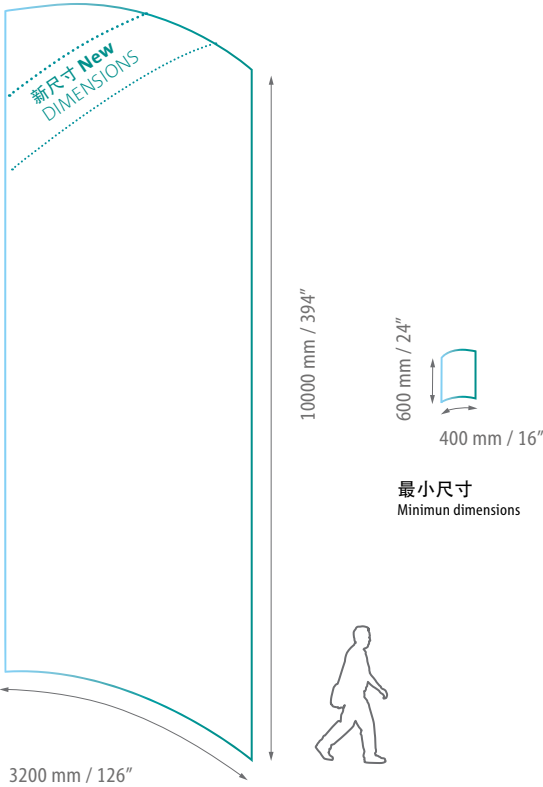
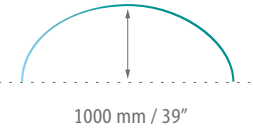


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尺寸 Dimensions

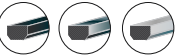
欢迎垂询定制更大尺寸产品
For larger dimensions, please contact Cricursa

最高弧深
Maximum height of rise

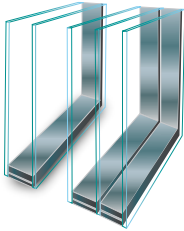


一般标准 General Criteria	Aluminum Spacer	Thermix	Chromatech	Edgetech*	Edgetech Flex
最小半径 Min. radius (间隔条 spacer <12 mm)	600 mm	500 mm	700 mm	任何半径 Any radius	任何半径 Any radius
最小半径 Min. radius (12 ≤ 间隔条 spacer ≤ 16 mm)	800 mm	700 mm	1800 mm	任何半径 Any radius	任何半径 Any radius
最小半径 Min. radius (间隔条 spacer >16 mm)	2700 mm	2000 mm	2500 mm	任何半径 Any radius	任何半径 Any radius
IGU重量 IGU weight > 200 kg	√	无 no	√	√	√
暖边间隔条 WarmEdge	无 no	√	√	√ Better Edgetech Flex	√
氩气 Argon gas	无 no	√	√	√ Better Edgetech Flex	√
球体及复杂几何形状 Spherical & complex geometries	无 no	无 no	无 no	√ Better Edgetech Flex	√
认证 Cikal certification (硅胶 Silicone DC 3363)	无 no	无 no	无 no	√	无 no
玻璃清边 Edge Deletion	尺寸 Size	硅胶Silicone+9mm	硅胶Silicone+9mm	硅胶Silicone+9mm	硅胶Silicone+12mm
	公差 Tolerance	-0/+2 mm	-0/+2 mm	-0/+2 mm	-0/+2 mm
硅胶公差 Silicone Tolerance		-0/+2 mm	-0/+2 mm	-0/+2 mm	-0/+2 mm

间隔条尺寸：大部分间隔条尺寸为10至22mm。如有特别需求，请联络Cricursa
Spacer size: from 10 to 22mm available in the most of the spacer types. In case of special requirements, contact Cricursa
Grosor: disponible de 10 a 22mm para la mayoría de los casos. Para grosos especiales contactar Cricursa
(-) 艾杰三道密封加强版超级间隔条 Edgetech Super Spacer Triseal Premium Plus



铝、不锈钢及暖边间隔条
Aluminium, stainless steel and WarmEdge Spacers



双层及三层中空玻璃
DOUBLE & TRIPLE GLAZING

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韩国工业联合会(FKI)
FKI-Federation of Korean Industries
Seoul, Korea 2014
建筑师 Architect :
Adrian Smith+Gordon Gill

