

Clear view of cool things: anti-reflective glass combined with high thermal insulation

The newly refined glass SCHOTT CONTURAN® Low-E is almost invisible and ideally presents products in refrigeration units while offering the highest thermal insulation.



The trend in the retail food trade of outfitting and retrofitting with energy efficient refrigeration units is creating clear advantages for customers and sellers. In supermarkets, for example, a very high proportion of energy costs is still being spent on chilling products. Energy saving appliances can be used to solve multiple problems at once: they considerably reduce costs, return investments quickly while ensuring a positive external image in terms of sustainability.



Save energy and present products better

Creating a positive shopping experience is important to attract and retain customers so refrigerated goods need to be optimally presented. One way is with glazed refrigeration units, as they offer two decisive advantages: firstly, they support energy saving solutions better than open refrigerators; secondly, they provide a clear view of the goods on offer. The glazing being used should also be free of distracting reflections. The newly launched CONTURAN® Low-E glass from SCHOTT provides the necessary combination of energy efficiency and anti-reflection.

SCHOTT CONTURAN® – the multitalented solution

CONTURAN® is an anti-reflective floated glass with a one or two sided interference optical coating that largely prevents surface reflections. For this purpose, several nanometer-thin metal oxide layers are applied in a special dipping process. This reduces reflections by 90% making the glass seem almost invisible. With a transmission of >98%, the viewer can focus on the essentials. CONTURAN® is therefore ideal for any kind of ambient light conditions, ensuring excellent viewing through the glass. Due to its high mechanical and chemical stability, the glass is also suited to everyday usage.

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Low-E: 40% less thermal transfer

CONTURAN® Low-E also supports the production of energy efficient refrigeration units. In addition to its anti-reflective coating, the glass material also offers a thin, pyrolytic Low-E coating (low emissivity) which improves the thermal transmittance value of insulating glazing by 40%.

CONTURAN® Low-E can be thermally toughened as well as manufactured in curved form. In the latter, the special construction of our anti-reflection coating is particularly effective: neither the anti-reflective coating nor its durability are adversely affected by bending the glass.

Optimum visibility at PoS, fast return on investment

The new CONTURAN® Low-E glass from SCHOTT is the perfect solution for modernization and retrofitting. It is an energy efficient and anti-reflective glass ideal for doors and other refrigeration units. Thanks to a double surface treatment, the product combines the highest thermal protection with an unrestricted, almost reflection free view of the presented products. It is therefore a very good choice for manufacturers of refrigeration units and refrigerator doors and food retailers. A rapid payback of costs and energy saving in as part of a consistent approach to sustainability are further advantages that make the product indispensable.



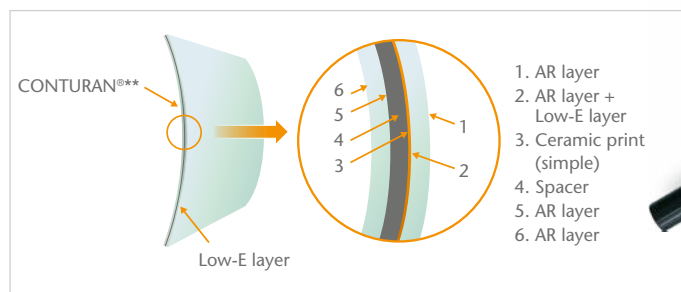
Advantages at a glance

- Clear, reflection free visibility
- High color rendering index
- Attractive presentation of goods
- Less energy consumption
- More sustainability
- Fast payback
- High mechanical resistance of the coating in everyday use

Specifications for CONTURAN® Low-E*

Transmission	91%
Reflectance	3%
Heat transfer coefficient	1.5 W/m²K
Available glass thickness	4 mm
Max. dimensions	1,770 mm x 1,220 mm

* Figures for 4/16/4 insulated glass units using 90% argon, 10% air



** Sample glass set-up for bent double glazing units. Low-E layer also on level 3 possible.

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