



## Case Study: Solar Control Window Film

### *Reducing cooling costs - London, United Kingdom*

In reaction to rising electricity prices and pressure to improve its 'green image', the Royal Caribbean International, a global cruise line provider, began looking for a solution to make the existing office air conditioning system of their UK Headquarters work more efficiently. 500m<sup>2</sup> of specialised solar control Window Film was installed across the building, resulting in a 10% drop in heating, ventilation and air conditioning (HVAC) costs.

#### **WHY WINDOW FILM?**

Solar control Window Film was chosen as the most cost-effective technology for Royal Caribbean International's HQ, providing a sizeable reduction in solar heat gain along with low costs of installation onto the building's existing tinted glazing. This combination also gave the added bonus of improving visual security and privacy for the office.

#### **RESULTS**

The installed solar control Window Film contributed to a reduction of the solar heat build-up through the glass by over 70%. This kept the building's interior cooler, and also neutralised hot-spots. With lower, more even room temperatures, the air conditioners were able to work for shorter periods and consume less energy.

The Window Film also created one-way visual privacy, and enhanced the building's exterior by creating a more uniform appearance.

In total, with over 500m<sup>2</sup> of solar control Window Film installed, HVAC costs dropped by over 10%, giving a 3-year return on investment. This allows Royal Caribbean International to save significantly in cooling costs over their 12 year warranty period.

**For a better understanding of how Window Film can help tackling a number of problem situations, please visit our website: [www.ewfa.org](http://www.ewfa.org)**



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#### **ABOUT EWFA**

*Established in 2000 by major window film manufacturers, the European Window Film Association represents and seeks to further the interests of the Window Film industry. It brings together manufacturers and distributors with the purpose of promoting Window Film products in the EU and highlighting their innovative performances and properties as well as introducing the concept of EU harmonised or EU endorsed Window Film standards as no such standard presently exists. In 2016, EWFA became the European chapter of the International Window Film Association*

**([www.iwfa.com](http://www.iwfa.com))**