



## Case Study: Solar Control & Energy Savings

### *Skylight film installation reduces Barcelona shopping centre's cooling costs*

#### THE PROBLEM

The Diagonal Mar shopping centre is one of the largest in Catalonia, covering 88,000 m<sup>2</sup> and attracting over 16 million visitors a year. The three-story complex is capped by over 4,000m<sup>2</sup> of skylights that flood the building with natural light and brilliant sunshine. As a result, restaurants, cafeterias and food stalls on the top-floor leisure zone suffered from soaring temperatures, and unbearable glare.

#### THE SOLUTION

The property management team of the shopping centre was already familiar with Window Film solutions. 4,000 m<sup>2</sup> of Silver 20 Window Film was installed over the entire roof glazing. The chosen product showed excellent solar heat rejection, significant energy savings and outstanding glare reduction.

#### THE RESULT

After the film installation, both management and vendors received positive feedback on the improvement in overheating and glare. In fact, temperature logging showed that directly under the skylights, the film reduced roof temperatures by about 20°C! Compared to the previous year, in June alone cooling costs were cut by over 11%, contributing to the estimated annual energy saving of over 20,000 EUR.

**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. In 2016, EWFA became the European chapter of the International Window Film Association ([www.iwfa.com](http://www.iwfa.com))

