

Skylight film installation upgrades Barcelona mall comfort - and saves on cooling costs

Description: **Urban Retail Mall**
 Film Type: **SolarZoneXTRM SkyLite S20X**
 Size of Job: **4000m² of skylights**
 Dealer: **New Technology Application**
 Estimated AC Energy Savings: **€20,000 pa**



Project Task

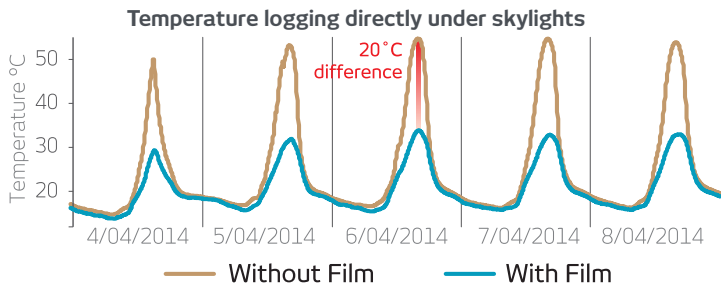
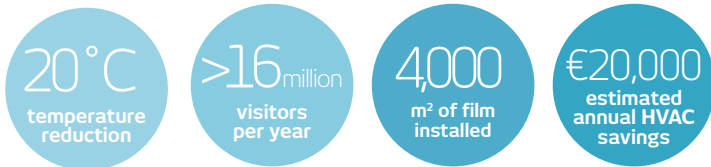
The Diagonal Mar shopping center is one of the largest in Catalonia, covering 88,000 m², and attracting over 16 million visitors a year. The three-story complex is capped by over 4000m² of skylights that flood the building with natural light – and brilliant sunshine. As a result, restaurants, cafeterias and food stalls on the top-floor leisure zone suffered from soaring temperatures, and unbearable glare.

Mr. Enrique Martínez Laguna, Vice President of CBRE, a leading property consultancy, manager of the shopping center since 2004, was familiar with the solution window film could offer. In fact, the company had previously ordered the installation of film over a 750 m² section of the roof glazing. This had been an effective solution - until the exterior film began to peel and crack, failing catastrophically under the tough Mediterranean conditions in less than 3 years.

Solution

The mall management approached contractors New Technology Application for a more robust window film alternative. The natural choice was Hanita's XTRM SkyLite S20X, a unique polymeric window film with exceptional durability, and outstanding solar performance.

Field and laboratory tested for proven longevity, XTRM SkyLite showed excellent solar heat rejection, significant energy savings and outstanding glare reduction – and was backed by Hanita's 10-year warranty. The management decided to install XTRM SkyLite S20X over the entire roof glazing.



Outcome

After 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.

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