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HIGH-TECH GLASS APPLICATIONS FOR NEW GENERATIONS OF SHOPPING MALLS

Europe's new shopping malls highlight the importance of architectural glass. These projects represent the best example of integration technology and advanced sustainability systems. The three buildings stands out for the high-energy-efficiency glass modules that clad the façade, fabricated with Tvitec solutions.

OPEN SKY. GIANNI RANAULO. TORREJÓN-MADRID

Open Sky, about to open its doors, has 95,000 square metres of shopping area surrounded by nature, including two lakes. Its commitment to sustainability, along with the iconic design of Gianni Ranaulo, work just like magnets. Tvitec manufactured state-of-the-art flat and curved glass for the transparent enclosures of this mall. More than 10,500 metres of insulating solutions in double-glazing, with

Open Sky Madrid, Lyon Part Dieu and Aleja Ljubljana are revolutionising architecture for important commercial buildings with sustainability and design. In this article, glass processor Tvitec, shows us how glass can ensure eco-efficiency and sustainability, while maintaining iconic-style architectural characteristics.



The Open Sky shopping mall, located in Madrid (Spain), is an iconic design of Gianni Ranaulo Architects



tempered and laminated glass, were used to ensure maximum safety. The Tvitec 6 metres of curved glass for Martifer brings together

great elegance with the eco-efficiency of double-glazing.

ALEJA SHOPPING CENTER, LJUBLJANA. ATP ARCHITEKTEN

Europe's largest shopping centre, opened during the pandemic, pays great attention to minimising energy loss to the outside and not absorbing external heat. Tvitec contributed to this energy-saving approach not only with double glazing with solar control coatings, but also with security laminated glass and also decorating the complex's distinctive outer layer with digital screen printing with its Tecglass technology. The installation by Italy's Pichler façade company is a true work of art. More than 5,000 metres of shaped glass are cleverly combined with metal parts.

LYON PART DIEU. LYON. MVRDV ARCHITECTS

The extension of one of Europe's largest centres stands out for its eco-efficient and eye-catching façade, which combines glass with a precast concrete system, also by the

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Tvitec System Glass, with its international quality certified production facilities of almost 200,000 square meters, is one of the largest high-performance glass manufacturers in Europe. Tvitec offers a comprehensive glass production system — for both flat and curved glass — that manufactures to the highest level of perfection. Tvitec 4.0 factories are equipped with state-of-the-art technology to ensure maximal precision in all automated treatments. As such, the company brings considerable added value to the glass specifications, ensuring the highest level of thermal insulation, safety, acoustic and aesthetic benefits for the building. Tvitec also produces 'Oversized Glass' of up to 12 meters in length, prioritizing maximal sustainability and luminosity to create spaces that generate a feeling of comfort and wellbeing.

Spanish firm Prehorkuiza. The design is by the prestigious Dutch studio MVRDV. Tvitec processed double glazing with solar control for increased user comfort, and laminated and strengthened safety glass in 8 to 12 mm thickness units. The installation was carried out for the French customers Coveris and Allouis Face in Tec, with excellent results.

Tvitec System Glass



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