

SHAPING COMMUNICATIONS

Bellapart has recently completed a 2,000 m² facade of a particularly unique building for Ambar Telecomunicaciones. Located in the Scientific and Technological Park of Cantabria (PCTCAN) in Santander, the building will be dedicated to the innovation of systems engineering and integrated communications.

The complex geometry of the building and the requirement of the structural form has led to an entirely bespoke design with each node, beam, bar, anchor and glass panel individually unique. The roof cladding panels are a sandwich

construction, consisting of an opaque, tempered glass panels, an insulating layer of mineral wool and an internal perforated composite panel. This is designed to limit the solar gain through the roof and reduce the internal ambient noise, while maintaining the external form and appearance.

To blend the opacity of the roof and the transparency of the vertical facades together, high performance, transparent insulating glass units were installed around the perimeter of the roof and for the top two rows of the walls with a ceramic frit, phasing from 100% transparency at the bottom

panel to 100% opaque where the roof cladding panels begin. At the lower parts of the wall facades, the same high-performance insulating glass units were used without any frit.

Rain water is collected by two gutters hidden within the facade. The downpipes from these gutters are integrated into the facade, so they remain hidden from view.

Four of the glass units are designed to open through motorised actuators. The framing of these was carefully formed to leave the outer

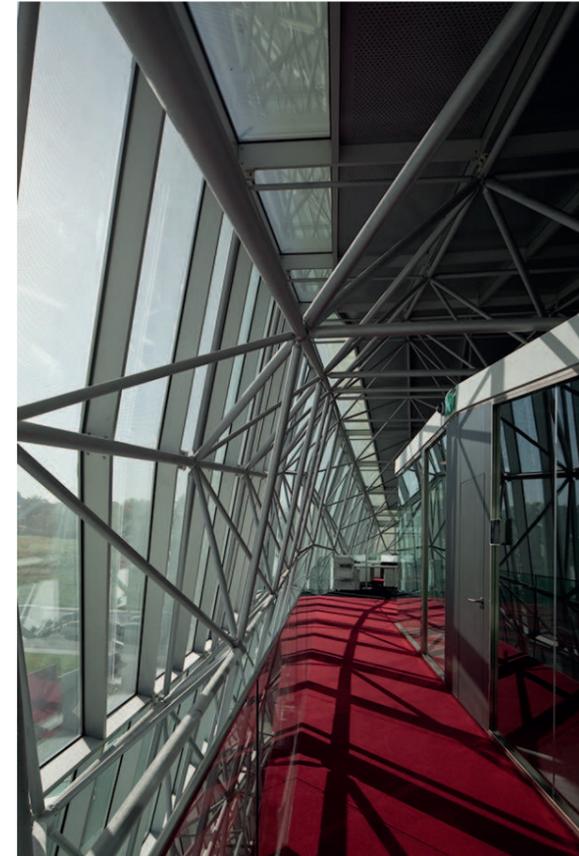
surface flush with the rest of the facade when these are closed thus concealing their purpose.

The access doors to the building were designed and adapted to the entrance area, maintaining harmony with the geometry and form of the facade as a whole.

Owner:
Ambar Telecomunicaciones

Architect:
Sobrellano Arquitectos

Contractor:
Bellapart S.A.U.



Ambar Telecomunicaciones