## Covering of a terrasse

The terrace of the Bistro de l'Arche is located at the bottom of the Grande Arche, overlooking the esplanade of La Défense, the international business district in the west of Paris. The esplanade is a large public space framed by exceptional buildings and limited to the west by La Grande Arche, which is located on the historic axis of Paris. To fit into this unique urban context, we designed a transparent and removable shell, seemingly simple and adaptable to weather conditions. A sliding facade and a flat and openable covering with sun protections allow the maintenance of an optimal thermal and visual comfort during the seasons. A thin protective covering during the winter and a maximum aperture throughout the summer. The opening mechanism is built into the supporting structure and invisible to customers and visitors. The steel frame and the glass envelope are designed with an innovative process.
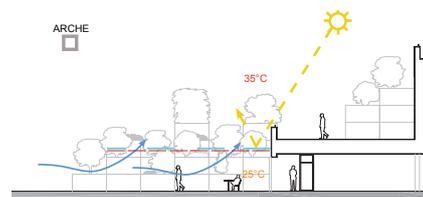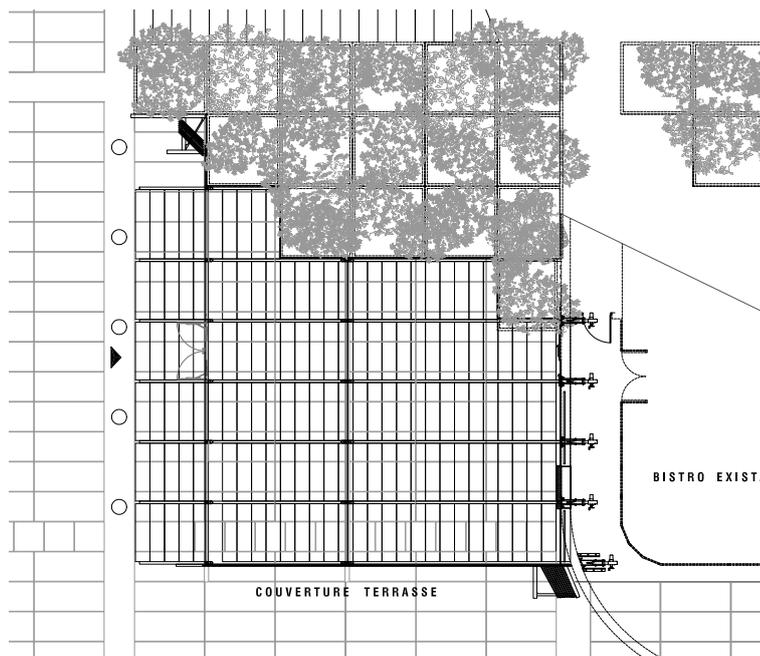

General view
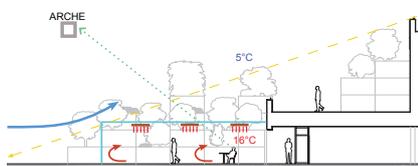
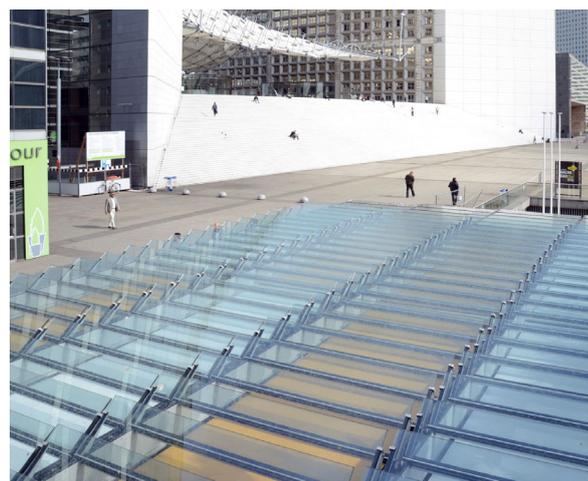Schema of the thermic confort   Winter
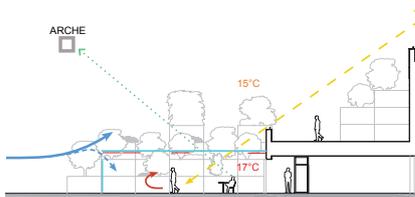
Mid-season
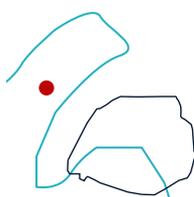

Summer

Top view on the project

Section AA

Direct order   Design+Construction
Surface: 120 m²   Building costs BT: 850 kE
Const. time: 2 months   Completion: 2011
Client: EURL Bistro de l'Arche
                 38, le parvis de la Défense F-92800 Puteaux
Location: 38, le parvis de la Défense F-92800 Puteaux
Programme: Canopy of a terrace
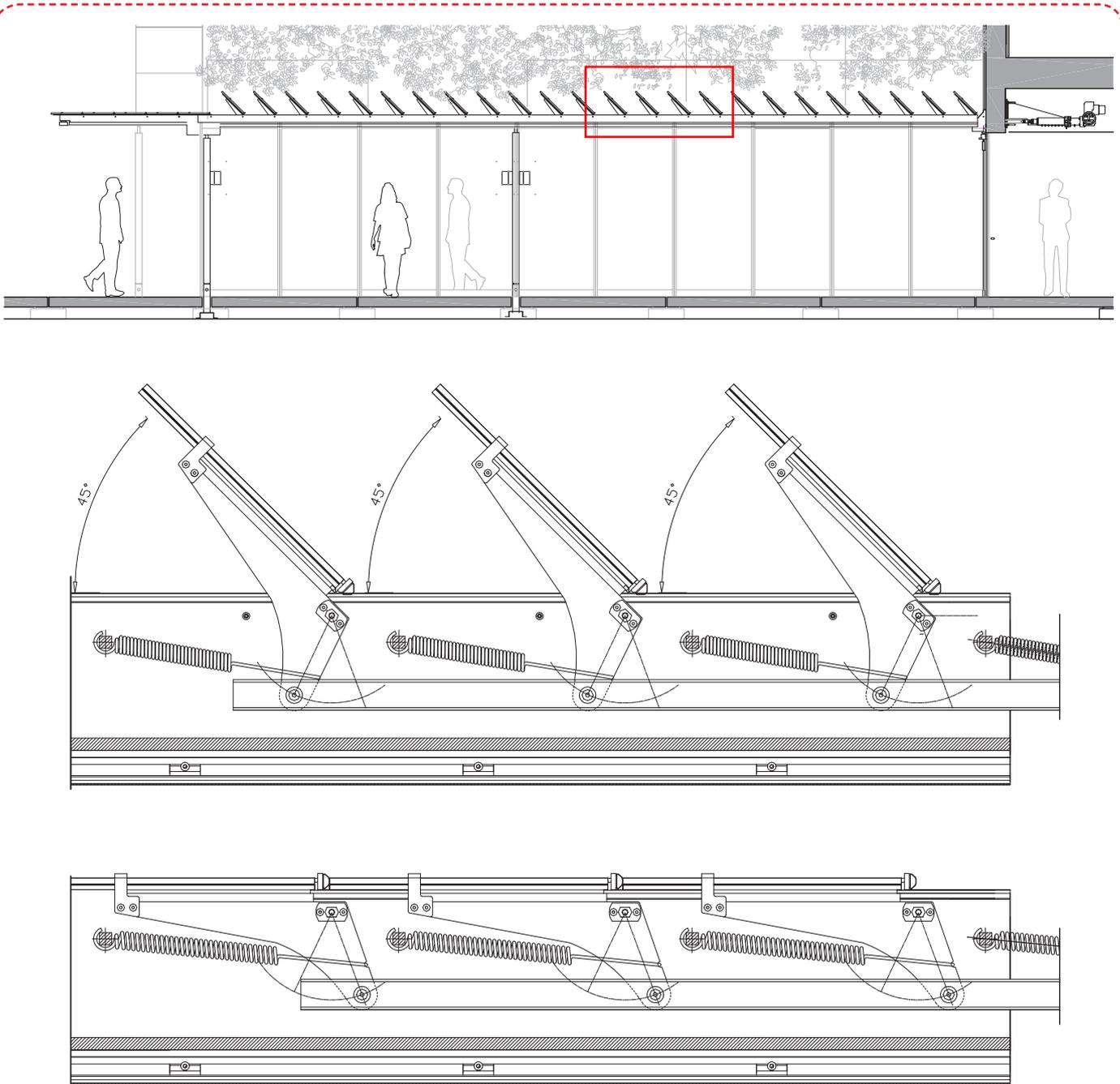Mission: Design, tender, construction supervision

BISTRO DE L'ARCHE - LA DÉFENSE
Covering of a terrace - La Défense 2009/11

Team with Lionel Pénisson - architect, RFR - engineers

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Opening mechanism of the glass canopy

The glass cover plates are driven by a horizontal cylinder and a rod to draw our attention towards the sky. The mechanism, which opens up to 45°, is integrated into the supporting structure and invisible to customers and visitors.

Publications

Project : Bistro de l'Arche

Published in the article «An innovative glass shell», magazine «The Access», january 2012, page 36-39