



EDGE Suedkreuz Berlin

Ensemble of hybrid-timber office buildings comprising a Carré building, a rectangular building, a basement garage, gastronomic units, and commercial spaces

Address: Hildegard-Knef-Platz 2 and 3, 10829 Berlin

Client: SXB S.à r.l. / EDGE

Floor area: 32,000 sqm

Completion: May 2022

Service stages: 1-4, general specifications and creative/design management, BIM (building information modelling)

General contractor: ARGE SXB, Suedkreuz Berlin ZECH Bau GmbH, CREE Deutschland GmbH, Rhombert Systemholzbau GmbH represented by ZECH Bau GmbH, Berlin

Project management: Witte Projektmanagement GmbH, Berlin; SMV Bauprojektsteuerung Ingenieurgesellschaft mbH, Berlin

Landscaping: service stages 1-4, hochC Landschaftsarchitektur, Berlin; service stage 5, granz + zecher architekten GmbH, Berlin

Structural engineering: Happold Ingenieurbuero GmbH, Berlin; BIT Buero fuer integrale Tragwerksplanung GmbH, Berlin

Building technology: Happold Ingenieurbuero GmbH, Berlin, IBB Ingenieurbuero Balint GmbH, Berlin

Interior design: de Winder Architekten GmbH, Berlin

Façades / glass-fibre concrete panels: Rieder Group, Maishofen, Austria

Façades / wall modules: CREE Deutschland GmbH / Opitz Holzbau GmbH & Co. KG, Neuruppin

Hybrid ceilings: BWE-Bau Fertigteilwerk GmbH, Lemwerder, thomas allton GmbH, Henningsdorf

Solar-shading glazing: MicroShade A/S, Glostrup, Denmark

Roof construction Carré-Atrium metal: Biedenkapp Stahlbau GmbH, Wangen

Roof construction Carré-Atrium Wood / ETFE foil: Temme // Obermeier GmbH, Rosenheim

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EDGE Suedkreuz Berlin is a seven-storey office complex consisting of two buildings with a total floor area of 32,000 sqm. The complex has been built using sustainable, climate- and resource-saving, and modular hybrid-timber construction techniques. The larger of the two freestanding buildings contains approximately 20,000 sqm of floor space. This makes it the largest freestanding hybrid-timber building in Germany and one of the largest in Europe.

The smaller of the two buildings (the 'Solitaire') is an elongated freestanding building which continues the line of the façade of the larger office building. The latter is a quadrangle-type structure (the 'Carré') with an irregular trapezoidal footprint. In the direction of Südkreuz Station, they create a new urban plaza with green spaces.

The heart of the Carré building is a spacious, light-filled atrium. A two-storey entrance lobby with a clear height of seven metres facing the plaza in front of the building opens up the massive, strictly gridded volume. The 26-metre-high atrium is covered by a transparent ETFE foil roof carried by a wooden-truss construction. A central highlight is the four tree-like shapes of different heights which grow skywards under the foil roof as if in a greenhouse. The structures are linked by filigree steps with white railings, which lead via platforms to the adjacent floors of offices. The fifth floor has a sky lounge with panoramic windows and a spacious external terrace. In every part of the building – from the supports, beams, windows, and doors to the claddings and railings – wood is visible in all the interior areas, adding an enriching liveliness to the complex's clear architecture and bringing nature into the individual spaces.

The Solitaire building has a two-storey entrance lobby with a clear height of seven metres. The building is entered from the new urban plaza. The landscaped outside space of the lounge on the

building's roof has a garden-like quality. Both the Carré and the Solitaire building have a flexible modular ground plan on all levels, enabling the creation of modern, multi-functional work worlds.

The rhythmic façades have a regular grid consisting of sustainable and weather-resistant glass-fibre concrete panels in a restrained colour scheme. The glass bays with fixed glazing and MicroShade solar protection additionally accentuate the façades; these are one-storey in the case of the Solitaire building and two-storey in the case of the Carré.

The sustainable façade elements of the two buildings weigh only 30 kg / sqm and are also recyclable. In addition, the façade absorbs CO₂ from the air due to the thin ground cement top layer and thus has a decarbonising effect.

In the construction of the buildings, the focus was on reducing the weight and thus the CO₂ emissions as much as possible while combining the aesthetics of the building and the ethical treatment of nature.

The intelligent combination of wood and concrete in this hybrid construction method saved up to 80% of CO₂ per square metre of floor area. Low construction weight, short shell construction times, high reliability in planning and costs, and long durability are other advantages of this construction method. The construction materials used in EDGE Suedkreuz are extensively recyclable using the principle of cradle-to-cradle recycling.

Supported by the timber hybrid construction method the project is DGNB Platinum pre-certificated and will receive Germany's first WELL Core & Shell Gold certificate.



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