



LVM 5 Kristall, Münster

Data and facts

Company	PORR Hochbau West GmbH
Type	Office buildings
Runtime	09.2018 - 12.2020
Principal	LVM Landwirtschaftlicher Versicherungsverein Münster e.G.

[Project report online](#)

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Structural work for an architectural gem

The project is also notable for its energy performance. With concrete core activation, a double façade, a triple-glazed interior façade and its own solar power system, the glass high-rise qualifies as an energy-plus building. The project has been awarded a Gold Certificate from the German Sustainable Building Council (DGNB).

Outstanding accuracy and punctuality

The four-storey building plinth features a reinforced concrete construction with wide-span underbeam and suspender beam ceilings. Angled walls erupt from the essentially rectangular structure in several places. The tower is supported by a braced exposed concrete staircase core with two lift shafts and four illuminated yellow exterior columns made from composite steel. The concrete-filled hollow profile columns with a solid core profile are flexibly built onto one another. More than 800kg of steel combination cleats connect the ceilings to the columns. This construction method ensured millimetric accuracy throughout the project. Despite the many different challenges presented by the ambitious project, our construction experts required just two weeks to complete each floor of the building. Around 2km of utility lines were installed for the concrete core activation, approximately 200m of electrical cable had to be laid and 50 embedded steel components were required.

Impressions

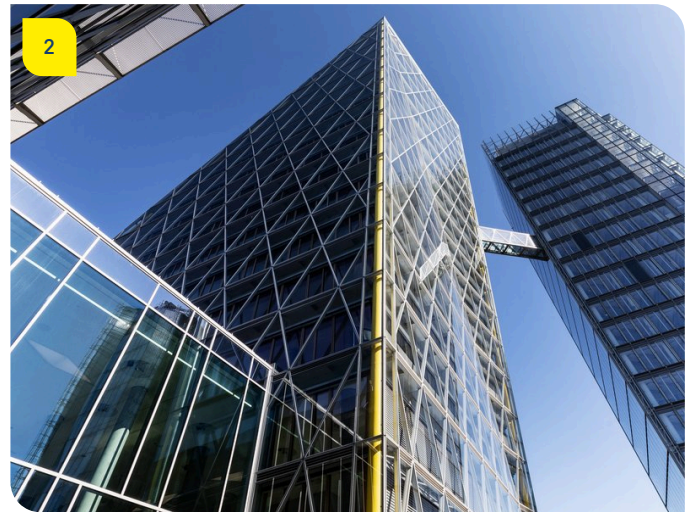
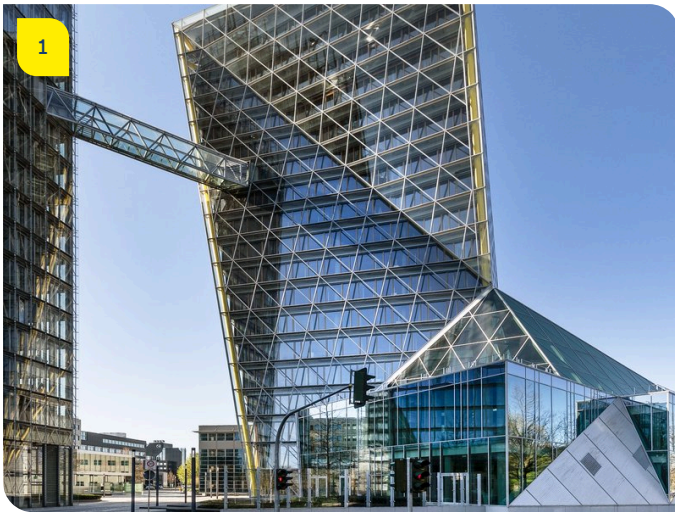


Image notes

1

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At its highest point, the office tower leans at an angle of 6 degrees and is only 8 metres away from the existing building.

2

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The contract for this project included the structural work for the 17 storeys of the building, as well as a three-storey underground car park and the construction of a construction pit.

Do you have questions about the project or would you like to learn more? Feel free to contact us for further information.

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