

Inclined walls made of precast elements and designed with Allplan Precast Walls
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Allplan in practice

ARCHITECTURAL FREEDOM MEETS HIGHEST ENGINEERING ART

INCLINED WALLS MADE OF PRECAST ELEMENTS THANKS TO ALLPLAN PRECAST WALLS

The „Identity“ building complex in Rennes, France, is an extraordinary architectural masterpiece. The architectural firm Blanchard Marsault Pondevie designed „Identity“ as a crystal geode formed by three interconnected rock sections.

A silver mesh made from aluminium envelops the three building parts and connects the roofs and facades like filigree made with silver thread. In the upper part, the mesh of „Identity 2“ consists of very narrow rhombi in order to provide the greatest possible solar protection. In the lower part, on the other hand, the larger rhombi in the mesh structure allows the generous infiltration of daylight.

In the future, the three buildings of „Identity“ will form the EuroRennes business district near the main train station. „Identity 2“ houses offices, stores, and a cinema.

DESIGN FLEXIBILITY

One of the special features of this construction project are the inclined walls, which give the building a unique appearance. The French company Société de Préfabrication de Landaul, (SPL) was responsible for designing and manufacturing the inclined walls of „Identity 2“.



Construction of
„Identity 2“ in Rennes,
France

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HIGHEST PRECISION

SPL specializes in precast walls and has two state-of-the-art precast factories and two design offices in Landaul and Rennes.

AUTOMATED WORKFLOWS

For precast planning, SPL relied entirely on its long-time partner Allplan Precast Walls. Allplan Precast Walls enables the highly automated design and production of precast walls. For this unique task, the design team appreciated the perfect mix of automated workflows and individual customization.

INNOVATION


„Identity 2“ also represented a first for SPL, because it was the first time in the company's history that inclined walls were planned and produced.

FIXED PRICES AND DELIVERY DATES

SPL is proud to have produced all the precast elements to the highest quality and delivered them on time. The project duration was one year from planning to construction for the total 800m² of inclined walls.

PROJECT INFORMATION AT A GLANCE

- > Focus: Precast construction
 - > Precast design software: Allplan Precast Walls
 - > Precast design: Société de Préfabrication de Landaul
 - > Architecture's office: Architecture Blanchard Marsault Pondevie
 - > 800m² of inclined walls
 - > Floors above ground: 9
 - > Office space: 7,934m²
 - > Project duration: one year from design to construction
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„Thanks to Allplan Precast Walls, I can quickly and easily model all kinds of buildings in 3D. Allplan Precast Walls allows me to handle more projects in less time and with higher quality thanks to numerous automated processes. At the same time, I can fully customize these automated tools to my specific needs. In general, I found it easy to learn the software and the operation itself is also effortless. Allplan Precast Walls provides clear visualizations and plans, which makes collaboration with the other project participants immensely easier.“

Bauvin Aymeric, Head of Planning Office

SOCIÉTÉ DE PRÉFABRICATION DE LANDAUL

SPL, Société de Préfabrication de Landaul, is located in the northwest of France. SPL specializes in the production of precast walls and has two state-of-the-art precast factories in Landaul and two design offices. The company was founded in 2008 by Manuel de Sousa Reis, Jean-Yves Tranvaux and Stéphane Renaudin.

SPL employs about 80 people and produces approximately 270,000 m² of precast concrete walls annually. SPL offers its customers a whole range of services, from sales, planning and scheduling to production. In doing so, SPL focuses on continuous development and innovation.

ABOUT THE COMPANY

ALLPLAN is a global provider of BIM design software for the AEC industry. True to our “Design to Build” claim, we cover the entire process from the first concept to final detailed design for the construction site and for prefabrication. Allplan users create deliverables of the highest quality and level of detail thanks to lean workflows. ALLPLAN offers powerful integrated cloud technology to

support interdisciplinary collaboration on building and civil engineering projects. Around the world over 500 dedicated employees continue to write the ALLPLAN success story. Headquartered in Munich, Germany, ALLPLAN is part of the Nemetschek Group which is a pioneer for digital transformation in the construction sector.

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