




RUUKKI



1 / 6

Kilden Performing Arts Centre

What sets Kilden apart from other venues is its wavy

This site uses cookies to provide you a better user experience. By using this site you agree that we can place cookies on your device. If you wish, you can disable cookies in your browser settings. 

[Read more about cookies in our privacy policy](#)

ACCEPT

Partners

- Client and main contractor: AF-Gruppen Norge AS
- Main structural designer: Multiconsult AS, Kristiansand, Norway
- Architect: ALA Architects Ltd, Finland



Save this reference information as PDF

Located on the Odderøya island in Kristiansand, Norway, the Kilden Performing Arts Centre serves as a venue for concerts and theatre performances. In scope, the cultural development project was second only to the Oslo opera hall, and the building is one of the big three performing arts centres in Norway, the two others being in Oslo and Stavanger. The decision for constructing the centre was made in 2002. In 2004–2005, an architectural design competition was held, attracting 96 architectural firms to submit their proposal. The design by the Finnish company ALA Architects won first place, and, two years later, the groundwork for Kilden began. Autumn 2011 saw the grand opening of the Kilden Performing Arts Centre.

What sets Kilden apart from other venues is its wavy facade. The facade structure continues indoors as the ceiling of the building. The top part of the facade is supported by bent steel columns every 25 metres. The building itself serves as the counterweight for the steel structure. Due to challenging wind conditions, it would have been impossible to create the complex wave pattern with any other material than steel. The building itself is located between a steep cliff and the ocean. Local oak was used for coating the facade.

Challenges

In addition to the special form of the facade, the biggest challenge for the project was limited on-site storage for steel components. The project site manager was tasked with ordering the required materials, which could be brought in only 2–3 days prior to installation. This required seamless communication between all parties at all stages of the project. Communications were smooth thanks to an extensive building information model (BIM) created for the project, allowing designers to identify critical structures and joints already at the planning stage. The model allowed designers to find optimal solutions and installation methods beforehand and check how they would perform in the finished building. In addition, Ruukki's experts helped with steel structure optimisation and cost assessment.

Kilden Performing Arts Centre in brief

Kilden has a total volume of 128,000 m³. It has four different halls seating a total of 2,270 people.

Blog

in

f



Products

Wall structures

Facade claddings

Roof structure

Customized components

Services & support

Sandwich panel support

Facade cladding support

Load-bearing sheet and purlin support

References

Facade cladding references

Wall and roof structure references

References by country

Contact

Find your contact

Send contact request

Contact head office



CHOOSE SITE

Ruukki Construction

Panuntie 11, 00620 Helsinki, Finland

Tel: +358 (0) 20 59 150

© 2020 Rautaruukki Corporation. All Rights Reserved.

[Privacy](#)