



Ing. Büro Bernhard Koller

Less material, high static efficiency and safe winter sports

In Austria, in picturesque Burgenland, Bernhard Koller has been running a planning office for structural steelwork since 2001. Via a partner company, Horvath Stahlbau GmbH, the construction engineer learned about the combined 2-D/3-D CAD solution of the ISD Group in Dortmund, Germany, and has been working with it since 2015 in various trades - from simple railings to complex steel and stage constructions.

“The visualization in the 3-D model makes a reliable planning of public construction projects much easier. With HiCAD, modelling in 3-D is possible, which could not be realized with the previous software,” Bernhard Koller explains his decision. “We planners are regularly faced with the challenge of presenting model drawings in such a way that they can be easily reused by



REFERENCE REPORT

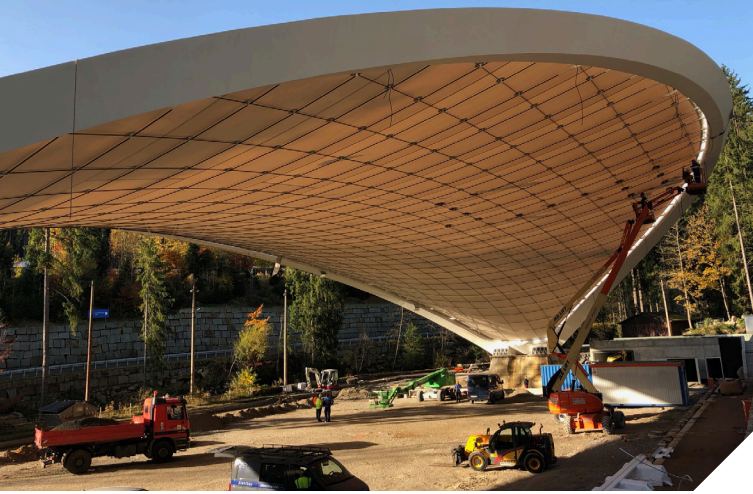


Image: © Ing. Büro Koller, Roofing of the Schierker Feuersteinarena

“The jury justified the special prize for engineering achievement with the fact that only a few companies were able to calculate, produce and assemble a three-dimensionally twisted hollow box made of steel on two supports with a cable-braced net structure as the actual roof.”

Bernhard Koller, Ing. Büro Koller

architects, structural engineers and all other trades. BIM-compliant data based on a 3-D model guarantee all relevant information - from the first concept to the realization and maintenance. Interfaces such as IFC, DWG, etc. play a very important role here, since some approvals can be made directly in the model. Without the high degree of automation provided by HiCAD, our previous projects would certainly not have been so error-free”. One such project was the Schierker Feuersteinarena, which received a special prize for engineering art from the Austrian Steel Construction Association, and won the HiCAD Award in 2018. “The jury justified the special prize for engineering achievement with the fact that only a few companies were able to calculate, produce and assemble a three-dimensionally twisted hollow box made of steel, on two supports with a cable-braced net structure as the actual roof,” says Bernhard Koller.

The choice of the shape-defining, double-curved design allows for low material usage and high static efficiency at the same time“. On board for this project was the latest

version of the HiCAD Steel Engineering suite premium with special functions for complex sheet metal constructions and arbitrarily curved surfaces, so-called free-form surfaces.

HELIOS – always the latest version for a transparent data flow

The required security and transparency of various construction projects with a rapidly increasing amount of data requires a product data management system that can be individually configured for the respective requirements of the user thanks to a large number of administration tools and additional modules and is multi-CAD-capable: HELIOS.

The PDM solution of the Dortmund-based ISD Group was implemented at the same time as the introduction of HELIOS. „We particularly appreciate the fact that all drawings belonging to a project are stored clearly and centrally. This is helpful when modifications or additions are required years after the project has been completed,” says Bernhard Koller.

“Thanks to HiCAD, we have achieved our set goals. Fully convinced of this software, we are also endeavouring to bring HiCAD closer to our customers.”

Bernhard Koller, Ing. Büro Koller

Image: © Ing. Büro Koller, Steel engineering substructure „Parndorf Railway Station“



OpenBIM compliant prepared for facade construction

“The introduction of HiCAD went smoothly and we can well imagine choosing the ISD Group as our first point of contact if we were to expand our business to include facade construction,” explains the engineer, who recently had the modules expanded to include the IFC interface in accordance with OpenBIM. In general, it can be said that the cooperation with the ISD, especially with the employees from Linz, is working without any problems. If we have any questions or problems, they are always available to us with advice and support - although problems did not occur very often. Thanks to HiCAD, we have achieved our set goals. Fully convinced of this software, we are also endeavouring to bring HiCAD closer to our customers.”

Short company profile:

- > Ing. Büro Bernhard Koller
- > Industry: Steel engineering
- > Software: HiCAD und HELIOS
- > Services: Steel and platform constructions
- > www.ingkoller.at



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Image: © Ing. Büro Koller, steel railings and balconies, construction project „In der Wiesen“

