

WINNER

Special Prize of the Jury



“To BIM or not to BIM was not the question in this interesting stadium. SCIA Engineer offered the central information model that was exchanged with other software, such as Allplan, Tekla, Peikko Designer and Hilti. Moreover, advanced calculations like dynamic effects and fire resistance were performed.”

Quote of the Jury



Football Stadium - Dunajská Streda, Slovakia

Owner DAC ARÉNA, a.s.
Architect ADIF s.r.o.
General Contractor AVA-stav s.r.o.
Engineering Office HESCON s.r.o.
Construction Period 2016 - 2018

This project includes a phased construction of a new football stadium combined with a partial renovation of the existing one. The new football stadium will replace the current FC DAC stadium. The construction started in the spring of 2016 with the first phase (stands B and C), the entire complex should be finished in 2018. The first phase has been already finished. The construction works on the second phase are just starting. The total capacity is 13,000 spectators. The DAC arena will meet UEFA category 4. The main structure of the stands and the main building are made of prefabricated reinforced concrete elements. The roof, facade and secondary structures are designed of steel elements. The length of stand C is 122.4 m and the length of stand B is 82 m. The width of the stands is 18.45 m.

SCIA Engineer was used to create a global static model. Models were created for static design and design review. As a part of the analysis in SCIA Engineer, not only the normative loads and effects were checked, but also dynamic effects, fire resistance and overall behaviour of the structure. Afterwards, a detailed design of reinforcement in concrete elements was performed and the elements were checked for both limit states. The steel components have been checked for both limit states as well. Workshop documentation was created in Allplan and Tekla Structures.

HESCON s.r.o

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HESCON, Ltd., a design and static office, was established in 2008 by the authorized civil engineer Ing. Erik Hrnčiar. After his long-term experience in the fields of design management, design and construction of load-bearing structures, he realised his idea to gather a strong team of designers and structural engineers, all of whom you can meet in HESCON, Ltd. today.

HESCON, Ltd. offers its clients services in consulting, design, engineering from initial study up to the workshop drawing. The main company specialization is the statics of structures.

