



Report on 'Modular Concrete Buildings: An European Experience'

by Dr Chua Yie Sue

Dr Chua Yie Sue is currently a committee member of Civil and Structural Engineering Technical Division (CSETD).

The Civil and Structural Engineering Technical Division (CSETD) organized a webinar talk on 'Modular Concrete Buildings: An European Experience'. The webinar talk was held on 22nd April 2021 via Go To Webinar platform. The speaker was Richard Morsink, who holds the position of Development Manager at Leviat, based in the Netherlands. He graduated from the Delft University of Technology and worked as a sales engineer before entering the building materials industry with HALFEN. Throughout his career with HALFEN, Richard has gained a wealth of specialist knowledge in fixing systems, precast concrete connection for the façade and precast industry. With his current role in Leviat, he gained valuable hands-on product development experiences particularly for lifting, fixing and anchoring applications.

This talk was moderated by Dr Chua Yie Sue, committee member of CSETD and was attended by 175 participants. The participants included engineers from engineering consultants, contracting firms, government agencies and local authorities as well as faculty members from local institutions of higher learning.

Mr Morsink has introduced Halfen HEK precast connection. It can be applied in all construction sectors from residential to infrastructure, and industrial applications. It is flexible and demountable and fast installed. The application of this connection helps in reducing the on-site labour to the factory. It comes as a standard modular concept with serial production and has strong limitation of failure cost on site.

Mr Morsink has discussed the application of HEK connection in different locations of precast wall in a building. He has also shared the installation sequences of this connection. The application of HEK connection can be integrated with full BIM proves from design until production in factory.

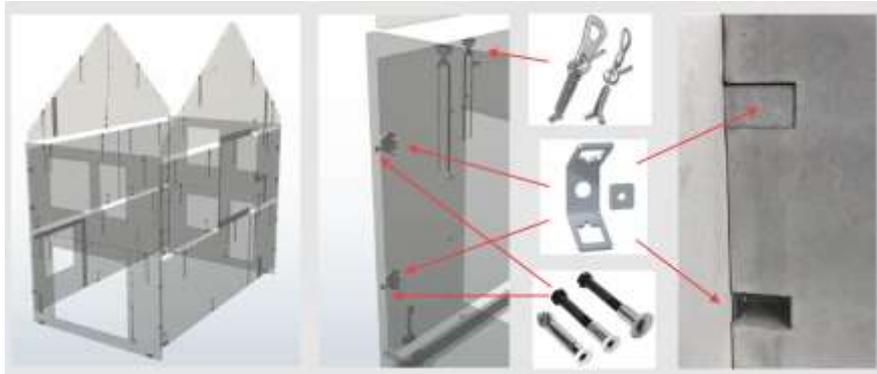


Figure 1 : 1 of the presentation slides

At the end of the talk, there were questions raised by the audience which Mr Morsink answered and clarified in more details.