

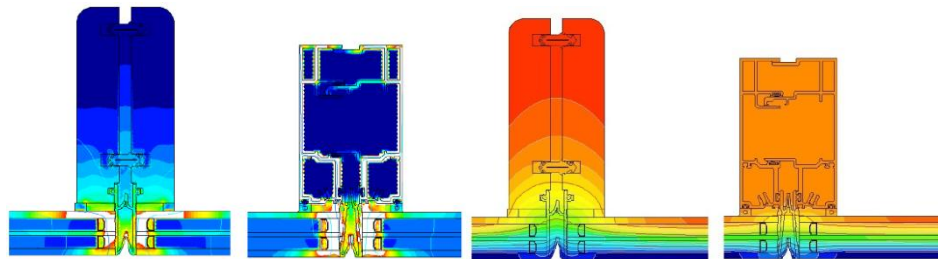
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Call for Master Thesis

„Analysis of Condensation Risk in Timber Curtain Wall“



(Advanced Building Skins; Buljanet.al., 2015)

Nowadays, the use of timber in architectural design and construction is rapidly increasing. One of most applicable areas is façade engineering. Until now, possibilities were limited to stick system used only in low-rise buildings. With the recent development of new timber curtain wall system with possible usage in high-rise buildings, new boundaries are set.

Although structurally and thermally sound, the new timber curtain wall may suffer from possible high condensation risk which can lead to material deterioration.

Within this master thesis, the intention is to introduce and explain the theory of condensation in façades in general. Research should be made on state-of-the-art in timber facades with records of condensation issue. The aim is to conduct thermal analysis with timber mullions under different conditions. The finite element software THERM ought to be used. The results must be compared and evaluated all in accordance with the current standards and regulations. As a result, key influencing factors must be recognized and proposal for improvement should be presented.

If you are interested in this topic, please contact us:

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