Retrofit with Interior Insulation on Solid Masonry Walls in Cool Temperate Climates - DTU Orbit (10/01/2019)

Retrofit with Interior Insulation on Solid Masonry Walls in Cool Temperate Climates: An Evaluation of the influence of Interior Insulation Materials on Moisture Condition in the Building Envelope

For historic buildings, where an alteration of the exterior façade is not wanted, interior insulation can be the solution to improve the indoor climate and reduce heat loss, but might also introduce moisture problems like condensation in the wall. Capillary active/hydrophilic insulation materials have been introduced to cope with the moisture problem. An extensive amount of calculations indicating where the challenges lie in the complex work with interior insulation in cool temperate climate has been carried out. In areas with high precipitation like Denmark, capillary active insulation may not be feasible without additional driving rain protecting of the façade.

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