

Web tool for quantitative sustainability evaluation of hygro-thermally optimized insulation solutions

Signe Walther

Department of Civil Engineering Technical University of Denmark



Introduction

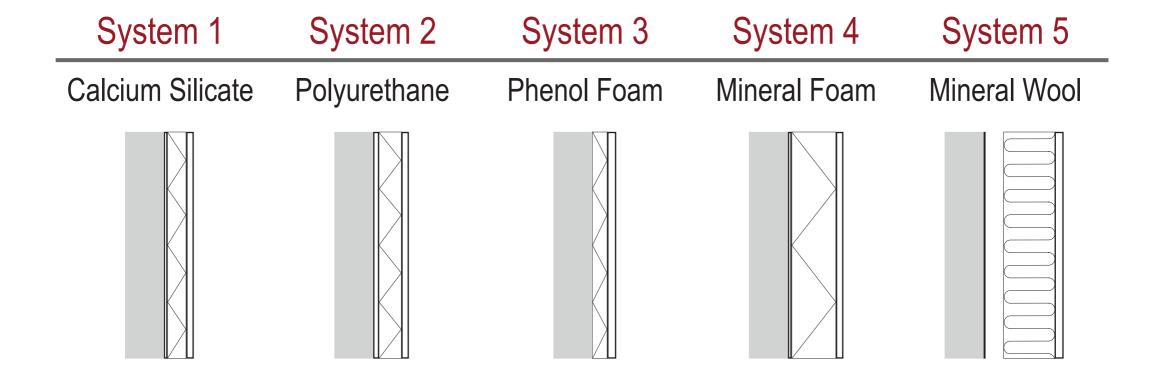


Robust Internal Thermal Insulation of Historic Buildings



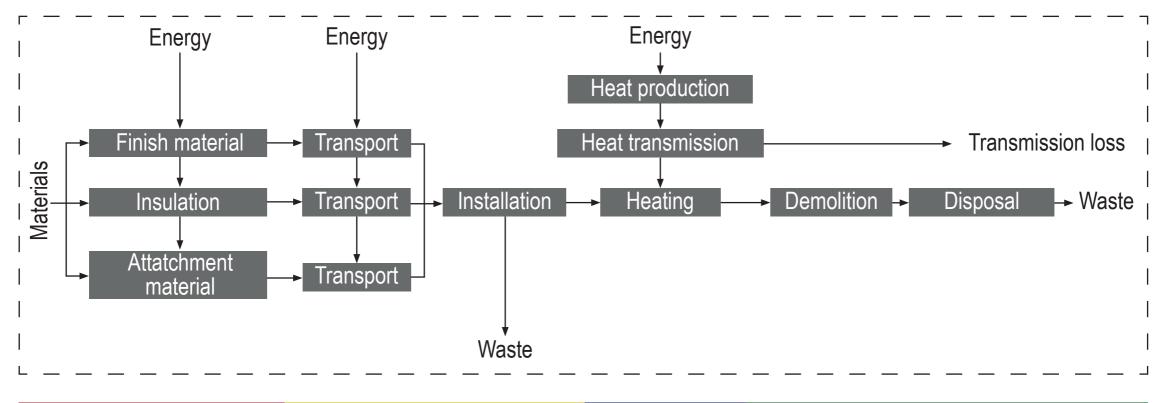


Insulation systems





Life cycle stages



Production Installation Use End-of-Life



Web tool - input



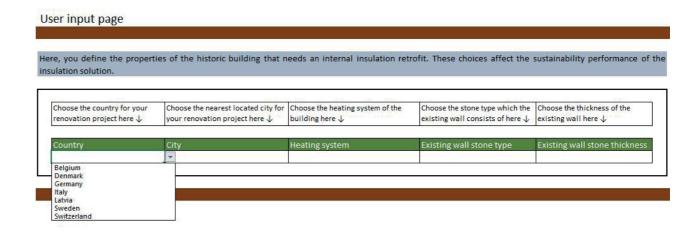
160 locations in seven countries (Belgium, Denmark, Germany, Italy, Latvia, Sweden and Switzerland)



5 existing wall types



3 heating systems per country





Web tool - output









Conclusions

Is an energy retrofit always the most sustainable solution for a historic building?







ANY QUESTIONS ?



Thank you for your attention!