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The effect of living wall systems on the heat resistance value of the facade

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This paper shows how facade greening effects the heat resistance value on an old building. The facades of the building are made out of bricks. Two greened facades with different living wall systems have been researched and measured for one heating season. At the same time two not greened parts of the facade were measured. So far there does not exist any general method, how to calculate the U-value or particular heat resistance values of the greened facades. The method which is developed within this research-paper makes the comparison between the greened part of the facade and the not greened part possible. It turned out that there is a difference of the thermal resistance between greened and not greened parts of the facades in winter. The improvement by the greening will be discussed within this paper.

Biography

David Tudiwer is an Assistant of Azra Korjenic. He has been working at the University of Technology for more than two years and is involved in many research projects. He is currently working on his PhD thesis about greening on buildings.

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