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Title: Experimental assessment and model validation of a vertical cooling panel

Author: Amaia Zuazua-Ros Juan Carlos Ramos César

Martín-Gómez Tomás Gómez-Acebo

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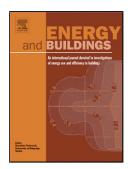
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## ACCEPTED MANUSCRIPT

1 2	Experimental assessment and model validation of a vertical cooling panel
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6	List of authors and affiliations:
7	
8	Amaia Zuazua-Ros
9 10	Department of Construction, Building Services and Structures. University of Navarra. Pamplona, Spain
11	
12	Juan Carlos Ramos
13 14	Department of Mechanical Engineering, Thermal and Fluids Division. Tecnun, University of Navarra. San Sebastian, Spain.
15	
16	César Martín-Gómez
17 18	Department of Construction, Building Services and Structures. University of Navarra. Pamplona, Spain
19	
20	Tomás Gómez-Acebo
21 22	Department of Mechanical Engineering, Thermal and Fluids Division. Tecnun, University of Navarra. San Sebastian, Spain.
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24	Keywords:
25	Heat dissipation, model validation, building integration, energy, architecture
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29	Highlights:
30	
31	Novel use of a passive vertical cooling panel is tested.
32	The relation of ambient temperature with the panel outlet temperature is assessed.
33 34	A mathematical model of the cooling panel has been developed and validated with experimental data.
35	<ul> <li>The viability of using north façades for cooling panels is confirmed.</li> </ul>
36	
37	
38	
39	Abstract
40 41	The energy used for cooling has increased in recent decades and the predicted future rise in consumption is driving a pressing need for more efficient technologies. Some technologies use

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