Guillermo Barrios del Valle <gbv@ier.unam.mx>

BRI referee invitation: 21BR3113-RE

1 message

Building Research & Information <onbehalfof@manuscriptcentral.com> Thu, Oct 7, 2021 at 2:32 AM
Reply-To: S.Emmitt@bath.ac.uk
To: gbv@ier.unam.mx

07-Oct-2021

Dear Miss Guillermo Barrios,

"Theoretical study of linear heat transmittance coefficient at window-to-wall connection"
Editor's reference: 21BR3113-RE

The above manuscript has been submitted to Building Research & Information (the abstract appears at the end of this email).

Would you be able to act as an expert referee for it?

Please respond (RSVP) as soon as possible to let me know whether or not you can act as a reviewer. Your comments are needed quickly, so we ask that you send your comments within 3 weeks (maximum).

To reply, please either click the appropriate link at the bottom of this email to automatically register your reply with our online manuscript submission and review system, or e-mail me with your reply.

When you accept my invitation to review this manuscript, you will be sent an email with a direct link to the scoresheet, which will be made available to you.

Thank you.

Yours Sincerely,

Professor Stephen Emmitt
Editor in Chief
Building Research & Information
S.Emmitt@bath.ac.uk
www.rbri.co.uk

MANUSCRIPT DETAILS

TITLE: Theoretical study of linear heat transmittance coefficient at window-to-wall connection

ABSTRACT:
The connection between the window with the wall plays an enormous role in ensuring appropriate conditions of temperature and humidity in rooms. The search for a window installation system that would ensure the elimination of thermal bridges in this area is still ongoing. This would mean obtaining a zero linear heat transmittance coefficient (ψ). The article presents the results of the analysis of heat flow through an external wall with a window installed using various methods, depending on the type of window, the thickness of the thermal insulation layer and the location of the window in the insulation layer. Thermal analyses were carried out with TRISCO commercial software. It was shown that the newest SCM Passive system by ERGO Plus Poland ensures a nearly zero linear heat transmittance coefficient, and compared to the methods of installing windows in the wall using mounting foam, it results in almost 8 times lower heat losses resulting from the linear thermal bridge at the window-to-wall connection. The SCM Passive system ensures continuity of the thermal insulation of the outer wall and meets the efficiency and hygiene criteria required by the Passive House Institute.

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