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Izvorni znanstveni članak

Dimensional stability of wood modified by citric acid using different catalysts

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Sažetak

Small wooden samples of fir (*Abies alba* Mill.) and beech (*Fagus sylvatica* L.) were chemically modified by citric acid (CA) as non-formaldehyde cross-linking system reagent and cured by convection heating at three different temperature regimes. Two different CA solutions were used, one with NaH_2PO_2 and the other with NaH_2PO_4 as a catalyst. The dimensional stability of the modified wood was determined by the anti-swelling efficiency (ASE) using the water soak/oven dry method. Almost equally large improvement of dimensional stability of wood was attained using NaH_2PO_4 as when NaH_2PO_2 was applied as a catalyst.

Ključne riječi

dimensional stability of wood; beech wood; fir wood; chemical modification; citric acid; NaH_2PO_2 ; NaH_2PO_4

[Hrvatski]

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