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Abecedni popis časopisa	Izvorni znanstveni članak	Pretraživanje članaka
asopisi po područjima		
Prirodne znanosti	Influence of plywood grain direction on sandwich panel bending properties	
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Biomedicina i zdravstvo	Mladen Brezović; Faculty of Forestry, University of Zagreb, Croatia.	
Biotehničke znanosti	Alan Antonović; Faculty of Forestry, University of Zagreb, Croatia.	Napredno pretraživanje
Društvene znanosti	Puni tekst (Hrvatski) Str. 83 - 88 (pdf, 686.26 KB) downloads: 13	
łumanističke znanosti		Upute za pretraživanje
redništva	Sažetak This paper investigates the influence of plywood grain direction on bending properties of a sandwich	Moj profil
Prijava novog časopisa	panel, as well as on stress distribution in each layer. Experimental sandwich panels (thom= 29 mm) were made of two three-ply plywood panels and a rigid PVC core between them. Grain directions of	Registracija novih korisnika
	plywood panels were between 0° and 90°, continuously raised by 15°. Seven models of sandwich panels were made. Bending properties of a sandwich panel was determined by three point bending method and stress in	Korisnička oznaka (emai
	each layer was determined by using finite element method. Simulation models were developed with equal load conditions as applied during empirical measurement of bending properties of the sandwich panel. The research results show that grain direction has a great influence on bending properties of the	Lozinka
OALster	sandwich panel, as well as on stress values in each layer. Results also indicate the importance of analyzing stress in each layer of plywood for the purpose of avoiding stress concentration in respective layers and for optimizing structural construction of the sandwich panel. Such stress analyses are not	prijava
<u> </u>	covered by standardized empirical methods for determining bending properties of sandwich panels. Ključne riječi sandwich panel; veneer plywood; stress; FEM; structural construction	Zadoraviii ste ioziniku?



[Hrvatski]

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