



Početna stranica
Abecedni popis časopisa

Časopisi po područjima

Prirodne znanosti
Tehničke znanosti
Biomedicina i zdravstvo
Biotehničke znanosti
Društvene znanosti
Humanističke znanosti

Uredništva

Prijava novog časopisa



[Drvna industrija, Vol.60 No.2 June 2009.](#)

Izvorni znanstveni članak

Performance of thermally modified timber (TMT) in outdoor application – durability, abrasion and optical appearance

Christian Welzbacher; Faculty of Architecture and Landscape Sciences, Leibniz University, Hannover, Germany

Christian Brischke; Faculty of Architecture and Landscape Sciences, Leibniz University, Hannover, Germany

Andreas Rapp; Faculty of Architecture and Landscape Sciences, Leibniz University, Hannover, Germany

Silvia Koch

Sabine Hofer

[Puni tekst \(Engleski\) Str. 75 - 82 \(pdf, 1.01 MB\) downloads: 31](#)

Sažetak

Thermally modified timber (TMT) is increasingly offered in Europe as an alternative to preservative treated timber. TMT durability in field tests as well as its moisture sorption behaviour in façade application was determined so as to consider its suitability for outdoor use. Additionally, abrasion and crack-formation of TMT deckings were examined and the optical appearance of a TMT façade was evaluated after 5 years of service. After 7.5 years exposure in ground contact, the various TMT materials tested were classed as "slightly durable" to "not durable" whereas the classification in above ground exposure was "very durable" to "moderately durable", which was in line with the reduced moisture sorption of TMT in weathered application. Moreover, the TMT-decking showed less abrasion and crack-formation compared to references, though the TMT façade revealed considerable discoloration by weathering. Hence, the suitability of TMT for above ground use is suggested, but a surface treatment is obligatory if discoloration is objectionable.

Ključne riječi

blue stain; cracks; decking; façade; weathering

[\[Hrvatski\]](#)

Posjeta: 49 (od 01.01.2007.)



Pretraživanje članka

traži

[Napredno pretraživanje](#)

[Upute za pretraživanje](#)

Moj profil

[Registracija novih korisnika](#)

Korisnička oznaka (email)

Lozinka

prijava

[Zaboravili ste lozinku?](#)