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Material properties and nondestructive evaluation of laminated veneer lumber (LVL) made from Pinus oocarpa and P. kesiya

Frederico de Souza - C.H.S. Del Menezzi -Geraldo Bortoletto Júnior

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Abstract This study aimed at evaluating the mechanical, physical and biological properties of laminated veneer lumber (LVL) made from Pinus oocurna Schiede ex Schlidli (PO) and Pivas kesiya Royle ex Gordon (PK) and at providing a nondestructive characterization thereof. Four PO and four PK LVL boards from 22 randomly selected 2-mm thickness veneers were produced according to the following characteristics: phenol-formaldehyde (190 g/m2), bot-pressing at 150°C for 45 min and 2.8 N/mm2 of specific pressure. After board production, nondestructive evaluation was conducted, and stress wave velocity (m) and dynamic modulus of elasticity (E_{MJ}) were determined. The following mechanical and physical properties were then evaluated: static bending modulus of elasticity (E₃r), modulus of rupture (f₃r), compression strength parallel to grain $(f_{c,0})$, shear strength parallel to glue-line $(f_{v,0})$, shear strength perpendicular to glue-line $(f_{n,m})$, thickness swelling (TS), water absorption (WA), and permanent thickness swelling (PTS) for 2, 24, and 96-hour of water immersion. Biological property was also evaluated by measuring the weight loss by Trometer versicolor (Linnaeus ex Fries) Pilát (white-rot) and Glocophyllum trabeam (Persoon ex Fries.) Murrill (brown-rot).

After hot-pressing, no bubbles, delamination nor warping were observed for both species. In general, PK boards presented higher mechanical properties: E_M , E_{ML} , f_{AL} , $f_{C,0}$ whereas PO boards were dimensionally more stable, with lower values of WA, TS and PTS in the 2, 24, and 96-hour immersion periods. Board density, $f_{V,0}$, $f_{V,00}$ and rot weight loss were statistically equal for PO and PK LVL. The prodiction of flexural properties of consolidated LVL by the nondestructive method used was not very efficient, and the fitted models presented lower predictability.

Materialeigenschaften von Furnierschichtholz aus Pinus oocaspa und Pinus kesipa und deren zerstörungsfreie Prüfung

Zusammenfassung Ziel dieser Studie war die Bestimmung der mechanischen, physikalischen und biologischen Eigenschaften von Furnierschichtholz (LVL) aus Pieues oocurpu Schiede ex Schlidl (PO) und Pinus kraya Royle ex Gordon (PK) sowie deren zerstörungsfreie Prüfung. Vier PO und vier PK Platten aus 22 zufüllig ausgewählten 2 mm dicken Furnieren wurden wie folgt bergestellt: Phenolformaldehydlarz (190 g/m²), Presstemperatur 150°C, Presidance 45 Minuten, Presidanck 2.8 N/mm², Nach der Herstellung der Platten wurde diese zerstörungsfrei gepriift und die Spannungswellengeschwindigkeit (vo.) sowie der dynamische E-Modul (Eur) wurden bestimmt. Anschließend wurden die folgenden mechanischen und physikalischen Eigenschaften bestimmt: statischer Biege-E-Modul (E_M), Biegefestigkeit (f_M), Druckfestigkeit in Faserrichtung (fr. o), Scherfestigkeit in Richtung der Klebstofffuge (f, o). Scherfestigke it rechrwinklig zur Klebstofffage (f_{e.50}), Dickenquellung (TS), Wasseraufnahme (WA) und permanente Dickenquellung (PTS) bei 2-, 24- und 96stündiger Wasserlagerung. Daneben wurde die natürliche

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Forest Service (U S), Forest Products Laboratory (U S), Robert J. Ross

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networking across all industrial areas It discusses the adaptation of existing NDE techniques to emerging new technological areas such as 3D printing via the introduction of cyber systems into the inspection and maintenance processes In addition the handbook covers topics such as the management and processing of big data with respect to real time monitoring of structural integrity and reliable inspection of individual components Remote NDE to include competence not available on site will be a potential technique to increase reliability of NDE inspections by integrating additional specialist inputs into the decision process by methods such as telepresence thereby better leveraging the scarce resources of senior inspectors into industrial inspections at multiple sites. The handbook also includes non technical topics of direct relevance to leadership management and adoption of this new philosophy The handbook houses a wealth of essential information to help academics industry professionals regulatory bodies and entrepreneurs navigate through this burgeoning new field The material in this handbook is presented with the intention of ultimately improving human safety through reliable inspections and dependable maintenance of critical infrastructure while also enhancing business value through reduced downtime affordable maintenance and talent optimization The content is positioned to inspire NDE professionals to think broadly in terms of their role as continuous value add rather than discrete decision support This second edition contains many new chapters and half of all chapters were revised from the 1st edition based on the engagement of authors through global platforms such as the ICDNT Specialist International Group on NDE 4 0 and the International conference series on NDE 4 0 National Bureau of Standards Publications, 1966-1976: Key word index United States. National Bureau of Standards. Technical Information and Publications Division, 1978 Nondestructive Evaluation of Wood Forest Service (US), Forest Products Laboratory (U S), Robert J. Ross, 2015 Nature's engineering of wood through genetics wind and weather creates a wide variability in wood as a material Consequently manufacture and users of wood products are frequently frustrated in dealing with the forest resource Manufacturers sometimes argue that wood is difficult to consistently process into quality products because of the wide range of properties that exist in this raw material Users of wood products can be equally frustrated with the performance variability found in finished products Nondestructive evaluation NDE technologies have contributed significantly toward eliminating the cause of these frustrations NDE technologies have been developed and are currently used in lumber and veneer grading programs that result in engineered materials that have consistent well defined performance characteristics This brief volume explores some of the processes that are used to manufacture wood including green wood technology and provides a bit of history to wood production and its uses too Other products that may interest you from the US Forest Service can be found at this link https bookstore gpo gov agency 819 Computational Nondestructive Evaluation Handbook Sourav Banerjee, Cara A.C. Leckey, 2020-06-01 Introducing computational wave propagation methods developed over 40 years of research this comprehensive book offers a computational approach to NDE of isotropic anisotropic and functionally graded materials It discusses recent methods to enable enhanced computational efficiency for

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