

THE INFLUENCE OF PARTICLEBOARD SQUARENESS ON THE EDGE BONDING QUALITY

Igor Džini, Tanja Palija

ABSTRACT

This paper shows the influence of the squareness of wood-based panels on the quality of edge bonding. Edge bonding of wood-based panels can be done by applying different types of adhesives and using different types of edge materials. The number of factors that affect the quality of bonding is large. Analysis of wood-based panels squareness after processing by pre-cutters, as well as the position of the roller for applying glue to the panels, was analysed. The static analysis showed that there is a significant influence of the measured parameters on the strength of the edge bonding quality. Variation of the observed factor leads to a change in the quality of the bonding quality. The highest strength of the glued joint was shown by the samples with the smallest angular deviation of the edge to the wider side of the panel. The minimum strength that the edge bonding should require is not defined by the standard.

Keywords: wood-based panels, edge bonding, squareness, internal bond