DETERMINATION OF VENEER RIBBON LENGTH DURING LOG PEELING PROCESS

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SUMMARY

In the plywood making, log peeling is a very important stage to produce key material for the technology process. Veneer ribbon length in plywood production affects decisively the use efficiency of raw material in production technology and the cost of plywood product. In this article, we would like to introduce two formulas to determine the veneer ribbon length through the parameters of rounding billet diameter, core billet diameter and veneer thickness. The difference between the theorical formula and the equivalent formula in veneer ribbon length calculation is negligible, ranging from 0.3 to 2.5% depending on the specific case. The biggest difference happens as the rounding billet diameter is small and the veneer thickness is high. In this study, the largest difference is 2.5% in case the rounding billet diameter is very small (85 mm), and the veneer thickness 1.5 mm; and the smallest deviation is less than 0.3% in case the rounding billet is 270 mm in diameter, veneer thickness is 0.5 mm. With these calculation results, the author recommended: At the production site, it is necessary to determine the length of veneer ribbon by the equivalent calculation formula through the perimeter of concentric circles or using data in the available table when knowing the rounding billet diameter and veneer thickness.

Keywords: Equivalence formula, veneer peeling production, veneer ribbon length.