

## **TECHNICAL ANALYSIS OF A METAL CHAMBER FOR DIRECT STEAMING OF BEECH LUMBER (*Fagus sylvatica* L.)**

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### **ABSTRACT**

*The aim of this paper is the technical analysis of a metal chamber for direct steaming of beech (*Fagus sylvatica* L.)-edged lumber with a thickness of 50.0 mm. The paper presents the basic parameters of the chamber and calculates the dimensions of the metal chamber and its capacity. The dimensions of the chamber with sawn lumber, the number of chambers, and the volume of the single lumber stack have been analyzed. The steaming of the wood is an important and complex operation during the processing of sawlogs into sawn lumber. Steaming, in addition to being a technological procedure, is also a thermal procedure. The steaming of the sawn lumber is carried out in the presence of water vapor in steaming chambers according to the following two methods: direct steaming of the sawn lumber and indirect steaming of the sawn lumber. In the method of direct steaming of lumber, the steaming medium is saturated water vapor.*

### **REFERENCES**

- [1] Hamm, Đ., Lovrić, N. (1971): Parionice za bukovu piljenu građu. Drvna industrija, br. 9 – 10, god. XXIII, Šumarski fakultet, Zagreb.
- [2] Hamm, Đ., Lovrić, N. (1971): Parionice za bukovu piljenu građu. Drvna industrija, br. 11– 12, god. XXIII, Šumarski fakultet, Zagreb.
- [3] Nikolić, M.: Parionice za drvo, NIGOS, Niš.
- [4] Rabadžiski, B. (2019): Parilnici za parenje na bicheni sortimenti. Tehnologii, mashini i energetika vo drvnata industrija. Seminar, Kavadarci.
- [5] Rabadžiski, B., Zlateski, G. (2007): Hydrothermal processing of wood, I part. UKIM, Faculty of Forestry, Skopje.
- [6] Rabadžiski, B., Zlateski, G. (2015): Hydrothermal processing of wood, II part, Wood Plastification, UKIM, FDTME, Skopje.