
# Topic:

## Selection of controlled parameters of the technological process of obtaining CLT panels with increased sound insulation

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# ABSTRACT


- The problem of creating high-quality sound insulation materials is an important area of development of the construction industry today. Therefore, at the manufacturing stage, it is necessary to observe many different indicators that affect the quality characteristics of building materials.
- One of the ways to improve the sound insulation characteristics in the construction of capital walls of buildings is the use of multilayer wooden panels consisting of modernized wooden lamella structures. There are various technologies for the production of multilayer wooden panels, most of which have proven themselves well in the construction industry and allow the use of wood of various breeds and varieties, combine them to achieve optimal characteristics, such as high heat capacity, fire resistance, noise insulation, environmental friendliness, biological resistance, almost complete absence of shrinkage. Mathematical modeling of such multifactorial processes makes it possible to determine the optimal strategy for conducting the technological process. By controlling the technological process in this way, taking into account the specified quantitative and qualitative characteristics, it is possible to obtain a CLT panel with the specified sound insulation properties.

# RESEARCH OBJECTIVES

Purpose:

To obtain a CLT panel with the specified sound insulation properties.

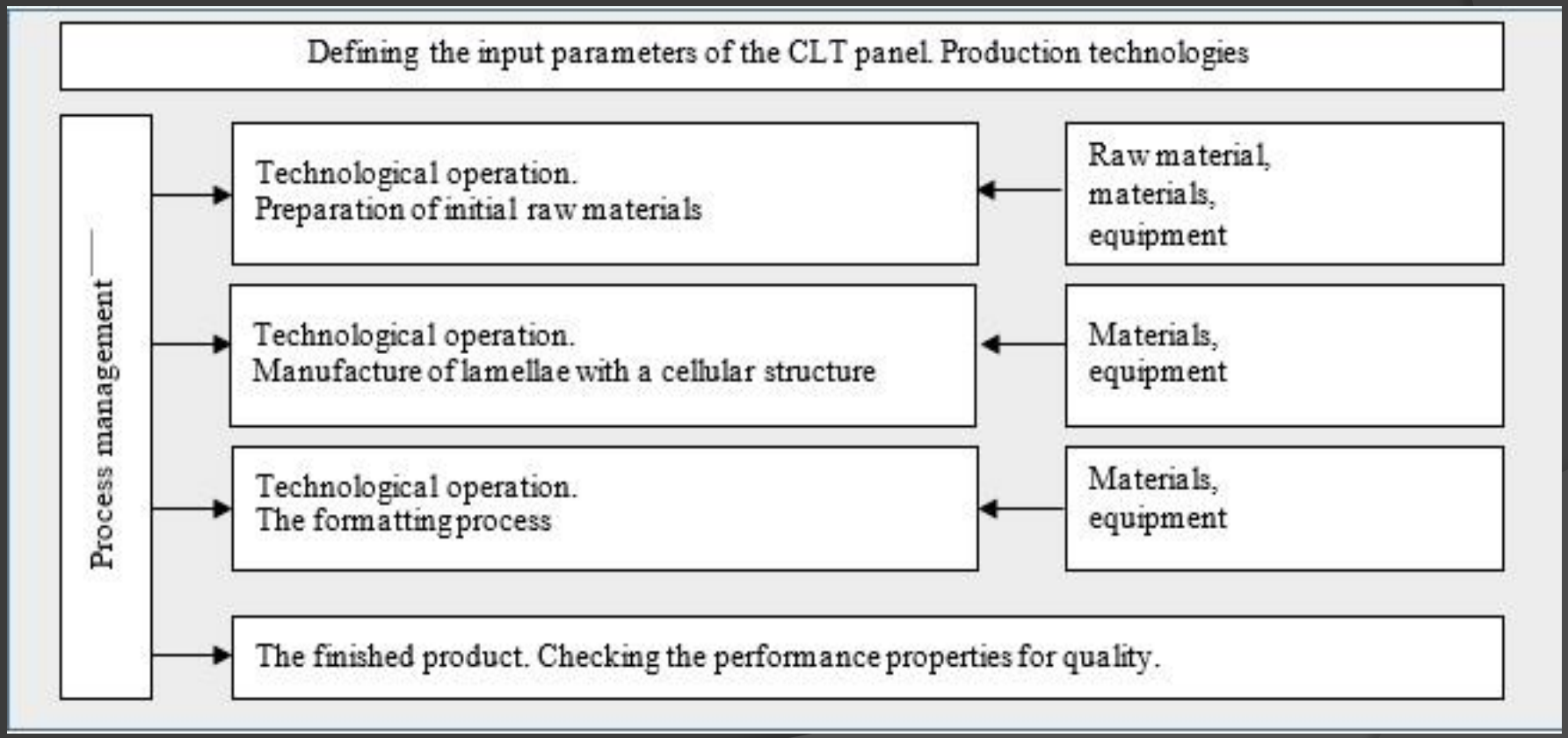
Research objectives include :

1. Conduct experiments and test the results.
2. To evaluate the use of new special plates and optimize their manufacture.

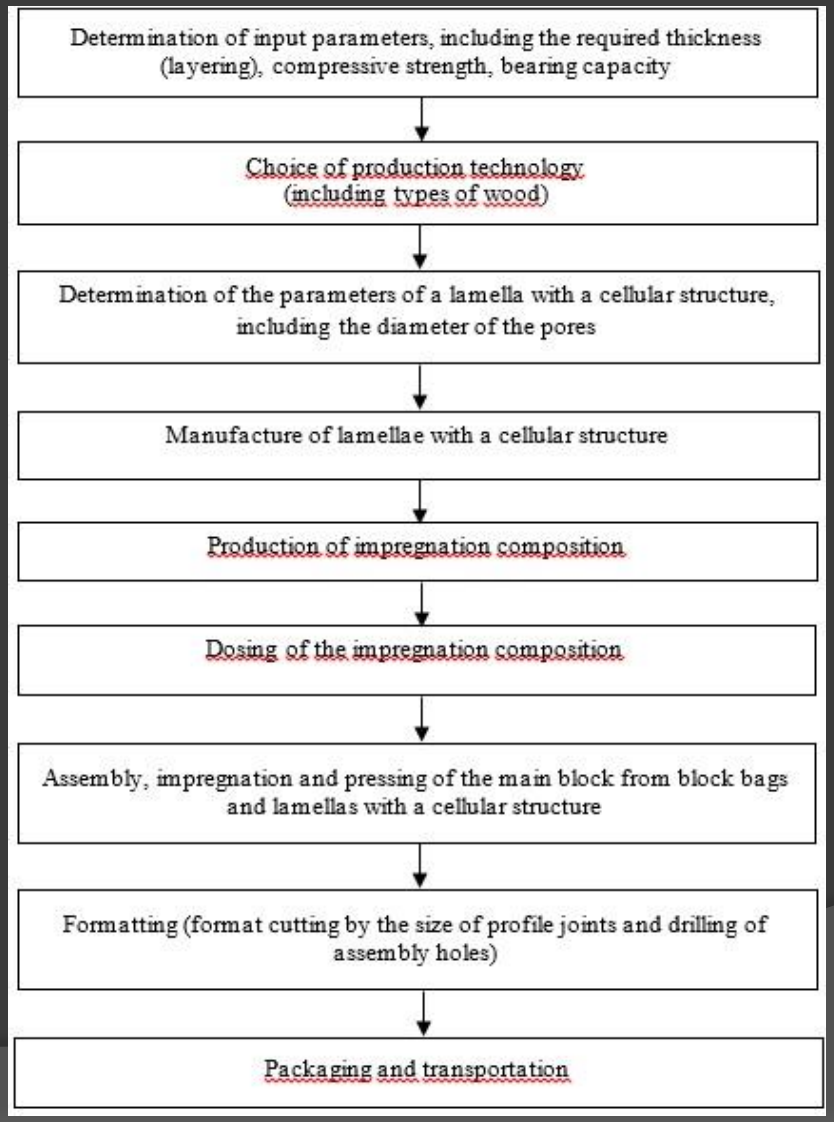
**Object of research optimization of production of improved CLT panels**

**The subject of the study is a wood panel with improved sound insulation properties**

# THE TECHNOLOGICAL PROCESS OF OBTAINING CLT PANELS WITH IMPROVED SOUND INSULATION PROPERTIES IS COMPLEX AND CONSISTS OF MANY INTERRELATED OPERATIONS



# FACTORS INFLUENCING THE PROCESSES OF OBTAINING CLT PANELS WITH INCREASED SOUND INSULATION



# CONCLUSION

- Mathematical modeling of such multifactorial processes makes it possible to determine the optimal strategy for conducting the technological process.

# PROJECT SUPPORT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**Thank you for your attention**