

# SOUND ABSORBENT COMPOSITE MATERIAL AND OBTAINING PROCESS

## *Inventors:*

*Tiuc Ancuța Elena, asist. prof.;*  
*Rusu Tiberiu, prof.;*  
*Nemes Ovidiu, assoc. prof.*

## *Contact:*

*ancuta.tiuc@yahoo.com, 0756 102 923;*  
*ovidiu.nemes@imadd.utcluj.ro, 0724 072 598*

### **Description:**

The patent relates to a sound-absorbent composite material used to reduce the overall noise, to reduce the structural noise transmission and to obtain appropriate acoustic spaces. The sound-absorbent material consists of softwood sawdust or beech wood fibers and of flexible two-component polyurethane (PUF). The manufacturing process consists in mixing the two components of the polyurethane foam, at room temperature, with the wood fibers. The mixture is poured quickly into a mold, due to the high reaction speed, the mold covered with a cap and left for for 30 ... 45 minutes completion of the chemical reaction and to achieve the dimensional stability.

**No. Patent or patent application: a 2013 00336/30.04.2013**



### **Applicability:**

**Sound absorbent plates waste based manufacturing**