

Method for manufacturing lightweight wood composites using hemp shives involves the following steps: producing wood particles and hemp shive particles in the form of shavings; drying the shavings; mixing the shavings with adhesive; forming a shavings mat; pre-pressing it; and pressing it. In this process, the chip mat is formed as a three-layer structure, with the two outer layers consisting of wood chips and the inner layer formed by mixing wood chips with hemp shives at a mass ratio of wood chips to hemp shives selected from the range of 75:25%, 50:50%, and 25:75%.