

Method for manufacturing lightweight particleboard using miscanthus stalks involves the following steps: producing wood particles and miscanthus stalk particles in the form of chips, drying the chips, mixing the chips with adhesive, forming a chip mat, pre-pressing it, and pressing it. The three-layer chip mat is formed, with the two outer layers consisting of wood chips. The inner layer is formed by mixing wood chips with miscanthus particles in a mass ratio of wood chips to miscanthus particles selected from the range of 75:25%, 50:50%, or 25:75%.