

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