

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