Styrofoam leftovers reduced to 1/15 of original volume

Keywords: Building material industry – Insulating material Styrofoam, Styrofoam dust, volume reduction

Next to the briquetting classics wood and metal, there are numerous other residual materials where briquetting would be beneficial. For example, an insulating material producer from southern Germany has been using one of our briquetting machines to press his Styrofoam remains.

Our client produces insulating materials for heated flooring, facades and blind arches, as well as acoustic panels. The production and especially the cutting of Styrofoam plates produce large amounts of small pieces and dust. Since 2004, the remains go directly into the funnel of a briquetting machine of type RB 220 via a suction system and are pressed. The client chose our briquetting machine as it reduced the waste amount drastically.

The client uses this briquetting system since 2004, but actually this press is already 24 years old. The client had bought the press second hand – before 2004 the press had been running at another customer.

Overall we have sold 100 machines for briquetting of mainly Polyurethane (PU), but also Styrofoam and other foamed plastics.

The bulk density of the loose material of previous projects using Styrofoam was between 0.010 and 0.045. For the briquetting of styrofoam a fairly low pressure of usually between 500 and 1,700 kg/cm² is enough to achieve a briquette thickness of approximately 0.7. Depending on bulk density, the volume can be reduced from 15 to 70 times.