

New technologies and products – Thin MDF and fiber insulation board

Dirk Koltze
Executive Vice President
Siempelkamp L.P. Charlotte Office
Charlotte, North Carolina, USA

Joachim Meier
Executive Vice President
Siempelkamp L.P.
Marietta, Georgia, USA

Thin MDF with a thickness ranging from 1.5 – 4.5 mm (1/16" – 3/16") opens up completely new application areas. Siempelkamp Maschinen-und Anlagenbau– Krefeld, Germany has developed a special thin MDF production technology which has been introduced with great success to the industry. Nine plants especially equipped for the manufacture of thin MDF have been sold within the last 2 years; four of them have already successfully started their operations. In this paper Siempelkamp will present the main features of this special process.

The second part of the presentation discusses a fundamentally different application for fibrous material: Wood-Fiber Insulation Boards.

Siempelkamp Maschinen-und Anlagenbau has developed a new method producing wood-fiber insulation boards in a dry-manufacturing process. This new process allows the continuous production of boards with a thickness of 20 mm (0.8 in) to 240 mm (9.5 in) and a density of 80 – 200 kg/m³ (5 – 12.5 pcf). These boards provide excellent thermal and sound insulation and are used for insulation in roof, wall and floor applications. The first wood – fiber insulation board line was put into operation at Gutex in Waldshut, Germany.