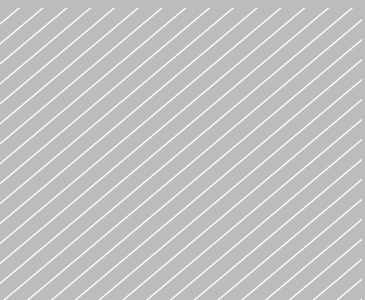




PRODUCTION TECHNOLOGY FOR FLEXIBLE WOOD/PAPER FIBRE INSULATION BOARDS



> > >>> >> INSULATION TECHNOLOGY





Production technology for flexible wood/paper fibre insulation boards

The rise in energy cost and the demand for environmentally friendly insulation materials was the driving force behind Grenzebach's development of a wood and recycled paper insulation board line. This technology uses organic fibres from de-fiberized wood chips or recycled waste paper fibres together with thermoplastic **bico** component fibres or other binders to form insulation panels with physical properties equal to or better than insulation material from inorganic fibres, at a very low energy consumption. The line design and delivery can start from fibre processing to final cut and packaged product. Key components as the fibre metering and mixing area, as well as the flexible heating oven system secure the production of a wide range of products.

We project and manufacture:

- » Wood chips storage and preparation
- » Wood fibre production: refiner
- » Recycling paper fibre production: whirlwind mill
- » Wood fibre drying: flash tube dryer
- » Fire retardant metering system
- » Fibre preparation: dry wood fibre bin and belt scale
- » Bico fibre preparation: bico opener and belt scale
- » Wood fibre and bico fibre mixing
- » Board forming: dosing bin, belt scale, prepress
- » Air flow press curing oven
- » Air cooling zone
- » Cutting and stacking line
- » Packing line
- » Pneumatic fibre conveying
- » Dust collection system
- » Electrical control system

GENERAL PRODUCTION DATA

Capacities	2,000 - 6,500 kg/h
Product thickness	40 - 240 mm (made of paper fibres: 40 - 80 mm)
Working width	1,350 mm, 2,600 mm or 3,100 mm
Sizes of final product	Length: 1,200 - 1,250 mm
	Width: 350 - 900 mm
	Density: 40 - 60 kg/m ³ (made of paper fibres: approx. 75 kg/m ³)
	or as per requirement





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