



COMPOSITE FIBRE-CEMENT MATERIAL

Ideas on utilisation

The subject of the offer is a composite fibre-cement material designed for the production of building elements, in particular fibre-cement boards. The composition of the composite fibre-cement material, depending on the intended use of the final product, contains cement in the amount of 30% -60% by weight, limestone powder in the amount of 27% -43% by weight, impregnated cellulose fibres in the amount of 5% -12% by weight and flocculant in the amount of 0.01% -0.03% by weight. Composite material has been tested positively under real production conditions.

Potential adopters of technology

Composite fibre-cement material can be used for the production of building elements, including fibre-cement, also corrugated, boards and roof tiles and pipes. According to the invention offered, various density materials can be produced and thus for different applications. Low density materials are used in interiors, also in rooms with high humidity (bathrooms, SPA, swimming pools), as soundproofing panels or wall and ceiling linings. High density materials are used for floors, sheathing, external facades and concrete forms.

Advantages of technology

The main advantages are environmental protection (recycling: use of derived cellulose from recycled paper), materials made of composite are also resistant to moisture, decay, insects, mold and house mushrooms, technical pests and rodents. The advantage of the plate produced from the offered composite, compared to the available on the market boards, is increased strength and dimensional stability.

Market and context of technology

The offered solutions can be used by companies that produce construction elements, e.g. tiles, pipes, plating, elevations.

Preconditions in adopting enterprises

Partial change of technology used.