



PATENTED TECHNOLOGY

FFC™: FOAM FIBER COMPOSITE  
THERMOPLASTIC RESINS AND NATURAL FIBERS



FFC™ IS

- ✂️ ULTRA-LIGHT 0,8 g/cm<sup>3</sup>
- ✂️ NO WATER ABSORPTION
- ↕️ TRANSPIRANT
- 🛡️ ANTIBACTERIAL
- ♻️ RECYCLABLE
- 🪚 WORKABLE AS WOOD
- 🔥 SELF ESTINGUISHING
- ✂️ INSULATING

## PATENTED TECHNOLOGY

- MATERIAL FORMULATION
- EXTRUSION PLANT AND TOOLINGS
- EXTRUSION PROCESS
- FINAL PRODUCT SPECIFICATIONS

FFC™ is a composite material consisting of the mixture of **thermoplastic** material with vegetal fibers and lightened with closed cell expansion.

The result of the extrusion of this material is a **profile similar wood**, complex and compact shapes and sections. Smooth outer surface with **hardness (SHORE A = 100)**, repellent internal mass and expanded mass with microcells. Profiles can be re-grinded and re-used for extruding the same material or other PVC mixture.

Friul Filiere plants (especially designed for this material) are ideal for the production of profiles with these aesthetic, mechanical, physical, structural and qualitative properties. First all FFC™ Granules is directly charged in the extruder hopper. The extruder has got a dedicated screw for plasticizing the material without breaking wood fibers and degrading the PVC molecule. The **extrusion line consists** of a **calibrating table unit** with dry calibrators and **wet vacuum tanks**, a **tracked takeoff unit**, a **circular saw cutter unit** and a **cutter dump table**.

