NONWOVENS and VENEERS REINFORCEMENT

1. Supporting a veneer.
2. Fleece for Veneer in fleece backing laminating machine.
3. Fleece for Veneer in Press.
4. Finger jointing tape.
5. Fleece-Gauze inside the doors.
6. Acoustic and FR fleece for dividing walls and ceilings.

1. SUPPORTING A VENEER

Scope: veneers reinforcement.

Fleece backing improves all the mechanical properties.

- The veneer can take new shapes, without risk of breaking.

2. FLEECE FOR LAMINATING MACHINES

- Laminating of the fleece onto the veneer, with liquid glue applied in a continuous machine with an oven (IR) and 2/3/4 hot rollers.

- Application Systems of the laminating process:
  - PVAC glues. MNP range of products.
  - PUR glues. Base products.

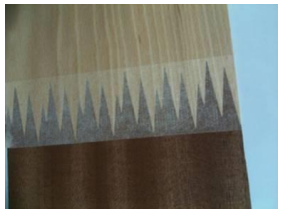
- In both cases, several types of fleece are available, using nonwovens between 20 and 70 g/m2, uncoated or coated with glue, from 20 to 100 g/m2.

- Main products to manufacture:
  - Edges, Veneer wrapping: Profiles, frames, baseboards …

3. FLEECE FOR VENEER IN PRESS

- PRE-GLUED NONWOVENS.
- No additional glue is required in the process.
- Non-continuous process.
- It must be reactivated by heat and pressure.
- Standard widths: 300, 400, 600, 1200 mm, 1600 mm
- Main products to manufacture:
  - Playwood, edges, profiles, …

4. FINGER JOINTING TAPE (ZiZu Tape)



- PRE-GLUED nonwoven to joint two veneers in order to make rolls of veneers.
- Applied in Finger joint machines.
- It allows to apply the fleece backing in rolls, meaning an increase of the speed and, therefore, the productivity.

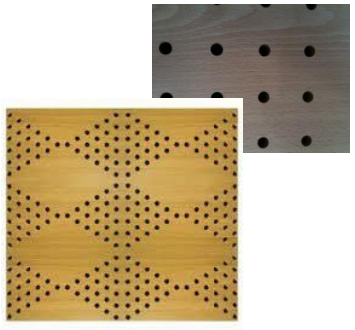
- The ZiZu can be removed, if necessary, by sanding it out. For that purpose, our thinnest tape (MZZ-2340) is optimum.
- Used for edge-banding process, where the material is supplied in rolls to the final customer.
- Standard width: 42 mm

5. FLEECE-GAUZE INSIDE THE DOORS.

- Inside the door, we can find different type of materials, with different behavior to the environment conditions, mainly the moisture: hard wood, MDF,…
- Different behavior means that both materials can suffer movements once the door is manufactured, even installed.
- The fleece-gauze is a very opened material, which allows the liquid glue used in the press to go trough this nonwoven, keeping fixed once that glue is dry, and avoiding the movement of the different materials inside the door.
- The gauze becomes a jointing bridge between both type of materials.
- Sizes at request. (size of the doors) Example: 2150x850 mm (or rolls)

6. Acoustic and FR fleece for walls and ceilings.

- Material used in manufacturing process of ceilings and walls in public buildings, offices, theaters, ships, …
- The nonwoven comply with the two essential requirements of this application: acoustic and non-flammable insulation.
- Acoustic behavior is measured by the European standard UNE-EN 20354.
- Flame retardant properties are measured by European standard of Reaction to Fire Classification, Euroclass UNE EN 13501-1:2002, or German rules, DIN.
- The material is normally supplied pre-glued. (powder glue)
- The nonwoven can be supplied in rolls or sheets.
- TEFIM®INSULATE registered trademark by TEFISA




Thank you for your time