

WETLAID NONWOVENS COMPETENCE CENTER



TARGETS

Assessment of technical risks

- To verify that the selected line configuration fully complies with quality requirements
- To detect process adjustment and fine tune the concept before going to industrialization

Assessment of commercial risks

- To produce samples for validation of the products both internally and with end-users
- To optimize the cost of the final product to be in line with the market prices

Support to decision-making

- Provide concrete data to help decide whether to proceed with or modify the project

FOR WHO

Customers

Evaluate latest technology and test specific line configurations

R&D and commercial teams

Expand their original markets or develop new ones

Allimand partners

Test their equipment in combination with Allimand equipment

ADVANTAGES

- **To Limit costs and resources**
- **To conduct tests in real conditions** with raw materials that are new or already used by the customer and with existing line operation conditions
- **To avoid heavy investment** in an inadequate industrial solutions

PILOT LINE CHARACTERISTICS

- **Stock preparation**
- **Formation**
 - ◇ **Hydrofiber** : Inclined wire with double ply headbox
 - ◇ **Rotofiber** : filtration mould formation with hydraulic headbox
 - ◇ **Hybrid headbox** : Headbox for flat wire specially designed for low consistencies.
 - ◇ **Secondary headbox** : Hydraulic headbox allowing the addition of an extra layer of fibers
- **Impregnation** with Microflow by application of excess binder to wet sheet (latex or resin)
- **Hydroentanglement** : Application of high-pressure water jets to entangle the fibers
- **Press section** single or double nip
- **Drying** : Through-air dryer / Yankee
- **Reel**
- **Laboratory** for pulp and product testing
- **Width at reel** 300 mm
- **Design speed** 300 m/min



TRIALS BACKGROUND

- Basis weight from 9 g/m² to 3200 g/m²
- Raw materials
 - ◇ Cellulose pulps
 - ◇ Long fibers : Abaca, Flax, hemp, kenaf, ...
 - ◇ Synthetic fibers : PP, PET, PA
 - ◇ Viscose rayon and derivatives
 - ◇ High-tech fibers : aramids, PTFE, composite fibers
 - ◇ Mineral fibers : ceramic glass, microglass, rock wool

ABOUT US

Allimand has a worldwide presence. With 85% of our turnover generated from exports, our team and representatives support our customers in 50 countries around the world.

Our wetlaid nonwovens competence center is located in New York state – USA.

