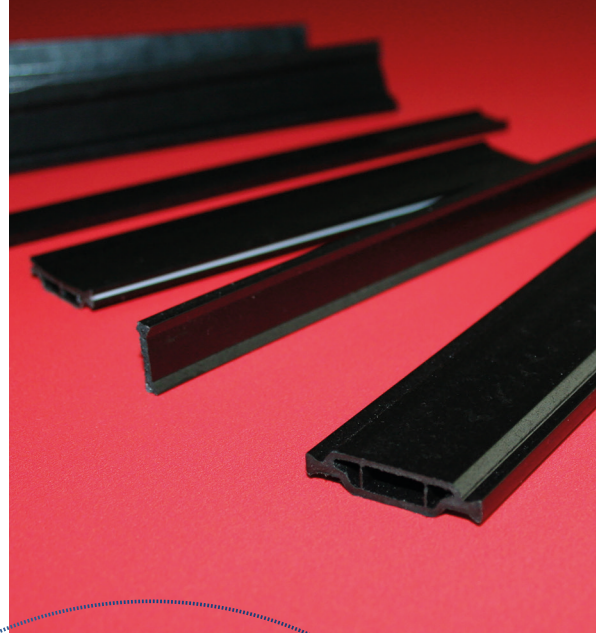
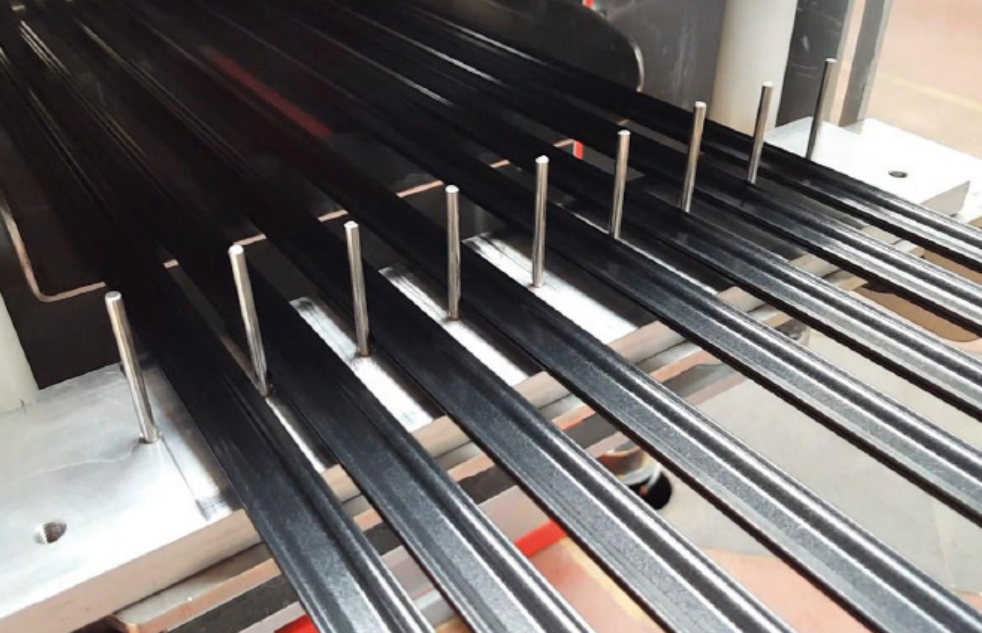




CASE HISTORY

COMPLETE PLANT FOR THE PRODUCTION OF THERMAL-BREAK PROFILE



Friul Filiere S.p.A has carried out for a European customer a **complete plant for the extrusion of thermal-break profiles** in 8 strands.

An excellent result considering the particular characteristics of this material.

PA66 is a nylon with very high processing temperatures which entail calibration difficulties.

Furthermore, the reduced tolerances (in the order of hundredths) which requires their application within windows and the production of **8 profiles simultaneously**, further complicate the extrusion process.

The plant is composed of a single-screw extruder **Omega 80** with PLC, in which the raw material arrives already dried, and **classical downstream** with insertion of auxiliary machines.

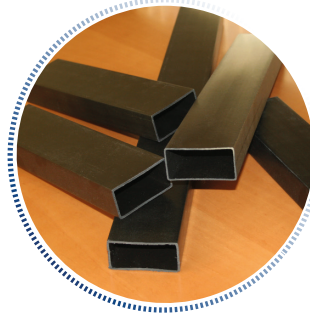
The control of the 8 strands is assured by a **dedicated calibrating system** with die-calibrator centring which allows a perfect alignment and facilitates the positioning of the profiles.

The flexibility of the extrusion plant has allowed the insertion in line of a sandblasting unit and a glue insertion system.

The sandblasting unit prepares the profile surface that will be varnished together with the window frame, allowing a better accession of the varnish.

The glue insertion system facilitates the assembly.

The extruded **thermal-break profile** presents mechanical characteristics of resistance **similar to aluminium** but ensures **high thermal insulation** performance.



NAME

TURN-KEY PROJECT FOR THE PRODUCTION OF THERMAL-BREAK PROFILES

SECTOR

WINDOWS AND DOORS

TPOLOGY

THERMAL-BREAK PROFILES

MATERIAL

PA66

PECULIAR FEATURES

INSULATION PROFILES IN 8 EXITS

- LONG LIFE TOOLINGS AGAINST MATERIAL ABRASION
- COMPLETE EXTRUSION PLANT AND KNOW-HOW
- HIGH PRODUCTION CAPACITY

