CONTINUOUS SANDWICH PANELS PRODUCTION LINE

This machine makes, by profiling rollers, roof tile profile. The roll former is equipped with floating die press to produce the profile in continuous when the machine is installed into a continuous sandwich panel line. By a movable carriage the roll former can be moved out of line to produce single skin and for this reason the machine is equipped with a hydraulic die shearing machine.

MINERAL WOOL PREPARATION LINE

For roof and wall panel production with mineral wool or polystyrene the line is equipped by a series of machines for load, cut, feed and automatic inserting with zig-zag disposition of lamellas with oriented fibers of insulating material between the upper and lower sheet.

DISTRIBUTION CROSS BAR

The polyurethane foam is distributed on the lower sheet with a distribution cross bar. This machine is equipped with one or two independent high pressure mixing and pouring heads that guarantee the continuous production without stop for maintenance.

FLYING CUTTING MACHINE

The panels made in continuous stage are cutted by flying cutting machine with band saw. The band saw is equipped with a turn-blade device that permit to cut the panel on both crossing side. On the front of machine can be installed a rotating disk cutting device that obtain on both side cut for the overlappig on the roof panels.

CONTINUOUS PRESS

The continuous press is the machine where occurs the coupling between the sheets and the insulating material. The two belts where this coupling happen are composed of electrically welded steel slats. thermically treated and worked by machine tool to obtain the maximum planarity. When the panel thickness changes the upper belt is moved up or down by a series of jacks. In case of polyurethane sandwich panels, the profile of border is gave to the foam by a series of side blocks locked to the side chains. For a good expansion of foam, the continuous press is equipped by two independent heating systems.

POLYURETHANES FOAMING AND METERING UNIT

For the production of PUR or PIR sandwich panel chemical components are used and properly mixed make the polyurethane foam. The mixing of these components occurs on the high pressure foaming and metering unit. This machine is composed by a series of tanks, pumps and measuring device that controlled by electronic equipment permit the formulation and metering of components on the distribution and pouring head.

TILTER / STACKER

The stacking of panels can be made also with another type of stacker. This machine is equipped of two independent high pressure mixing and pouring heads that guarantee the continuous production without stop for maintenance.

PACKING MACHINE

Packing machine, wraps the bundle of panels with extensible polyethylene film through its rotating central device. A feeding system inserts the polystyrene blocks under the panels on the planned position automatically. Two upper uncoiling device permit to close the heads of stack to guarantee the protection up to the installation.