

PAVATEX

ENGRAVING
WITH WATER JET CUTTING.

WATERJET AG: A GENERAL CONTRACTOR FOR INNOVATION

From simple water jet cutting to complex projects that include product development, Waterjet acts as a general contractor: Waterjet goes the extra mile for its customers.

With water jet cutting, new projects always represent new challenges. Waterjet therefore analyses the new situation with the customer and develops relevant solutions in the areas of material (acquisition and processing), production (cutting procedures and processes), logistics (delivery) and installation (monitoring and post-processing).

Waterjet is always a reliable service provider for all its customers. But, above all, Waterjet is a partner of the highest standard.



PAVATEX – NEW ENGRAVING PROCESSES FOR SOFT MATERIALS

For Pavatex, an international manufacturer of insulation materials, Waterjet engraved with abrasive water jet cutting the brand name „Pavarooft“ on roof insulation boards.

The problem with engraving a softer material lies in the varying depths of particles, which emerge when switching on the high pressure water jet with the abrasive. For this project, Waterjet developed a production process that left no impressions, so that beginnings as well as ends could be cleanly and precisely engraved.

WATERJET: THE GENERAL CONTRACTOR

The laboratory-developed method was based on a systematic measuring out of the pressure and the abrasive during the forward and back movement. The new process is complemented by special sensors that enable the curved plates to be machined with the necessary precision during the toughening process.

The 5-meter pieces were three times as long as the largest machine. Therefore, Waterjet modified its latest machine: with a conventional blade, the machine was divided into two parts. An inserted spacer widened the water jet cutting machine to the required length. Therefore, we developed a new machine for the customer and its project.

The production process was subsequently extended to a splashguard and the process control was significantly enhanced. In this way, Waterjet produced serial engravings in the manner of a general contractor.