



# PUSH DOWN INSTALLATION

5G-i is the brand for our one-piece installation systems with the locking element integrated in the core. 5G-i exists in two different versions, each developed to provide maximum strength and best installation experience for its particular product category.

## HOW IT WORKS

For laminate & wood

The integrated locking element is pushed inwards when the next panel is folded down. As the panel reaches its final position, the element flexes back and into the wedge groove on the folded panel, thereby locking it vertically.

For LVT/SPC & WPC

As a panel is folded down, a locking strip has been designed to smoothly bend due to each panel's guiding surfaces. When the guiding surfaces have passed each other, the locking strip flexes back and thereby pulls down the folded panel into a perfectly aligned and locked position.

## PROFILE EXAMPLES



Laminate & wood



LVT/SPC and WPC



## Production solutions

### JUMPING MOTOR

5G-i for laminate flooring features a locking tongue that is integrated in the core material. The tongue is equipped with slits which push the locking element on the opposite panel inwards when the panel is folded down. The flexibility in the material is achieved by producing curves in the backside of the product during the final profiling step and requires an additional jumping motor.

### OPTIMIZED TOOL-SET-UP

The tool set-up and design for 5G-i has been optimized to secure robust production within the required tolerances. Critical surfaces are profiled at nearby positions in the profiling machine in order to decrease the effect of possible sideways movements in the profiling line and to improve tolerances.

By using tools with a small diameter to profile the over-angled surfaces, the overhang in the machine is kept down. This thereby prevents tolerance issues when producing profiles with negative angles.