

## THE EFFICIENT CORE LAYER PRODUCTION PROCESS

# > HPCC PRESS LINE

Substantially more efficient core layer production is possible with the innovative HPCC (High Pressure Core Composer) process, in which Fill is focusing on the production of gluelam as a semi-finished product. Knots, cracks, and other defects in the raw material are fixed, and a high compressive force enables exceedingly economical planing. The yield is 25 to 35 percent higher than conventional methods.



HPCC press line

## YOUR ADVANTAGES

- Minimal material pretreatment
- Low material losses
- Exceedingly economical planing
- High yield



HPCC gluelams and lamellae

## THE PRINCIPLE

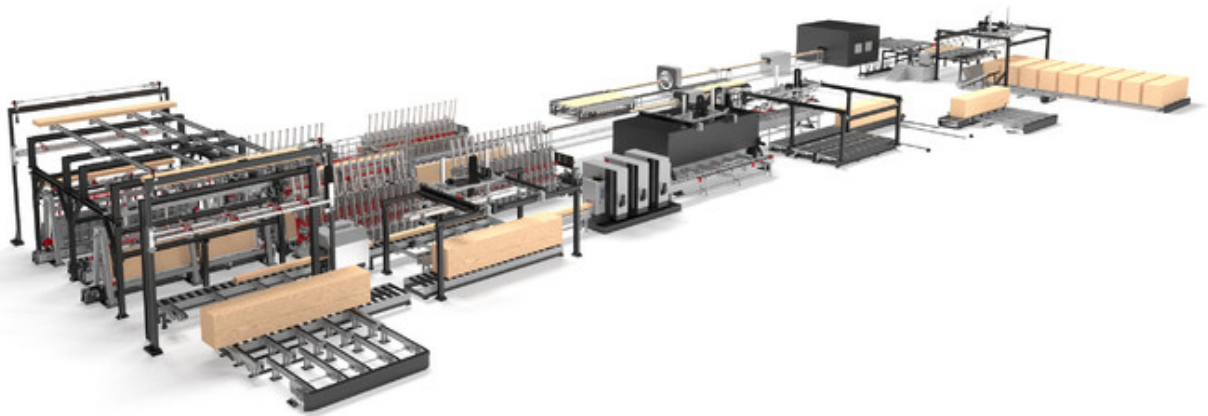
For optimum gluing, the sawn timber is not pre-planed at all on the underside and only pre-planed on the upper side to level out excess convexity. Trimming is only required if there is excessive curvature; the ends remain largely uncut. In this way, the individual strands are configured, glued, and compressed into butt-jointed gluelams.

The wood is broken partially in order to compensate for thickness tolerances and to prevent excessive stress in the lamellae. First, the gluelams are gouged out after laying down, and cut into core layer lamellae by bandsaws. These lamellae are then joined in gluing presses to form finished core layers.

In combination with the Fill speedliner band saws featuring the narrowest of kerfs, it is possible to produce up to 90 square meters of core layers from one cubic meter of raw material for the first time. Fill has already filed a patent application for the new development.

TECHNICAL DATA

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> **Machine data**

Yield	approx. 90 -100 m <sup>2</sup> finished core layers per m <sup>3</sup> of raw wood with butt joints
Layer assembly	white glue
Glue type	up to 3 N/mm <sup>2</sup>
Compressive force	variable; min. 10 min
Pressing time	very versatile; depending on design and input material approx. 2 - 8 million m <sup>2</sup> of core layers per annum
Output	up to approx. 80 m/min
Continuous wood feed	300 mm
Shortest single length	freely selectable, e.g. min. 300 mm
Overlap from joint to joint	120 - 1,200 mm
Gluelam height	

> **Options**

realizable with various scan variants  
 various planing systems can be integrated  
 variable press capacity and number of presses  
 various Fill band saw systems can be used  
 variable system layout to customer requirements

> **Range of applications**

core layers for 3-layer or multilayer board, parquet, CLT, and formwork panels

Specifications subject to change