

# PLATE OPTIMIZATION 2.0 - STAIRCASE

## OPTIMAL MATERIAL UTILIZATION INCL. REUSE OF LEFT-OVER PLATES

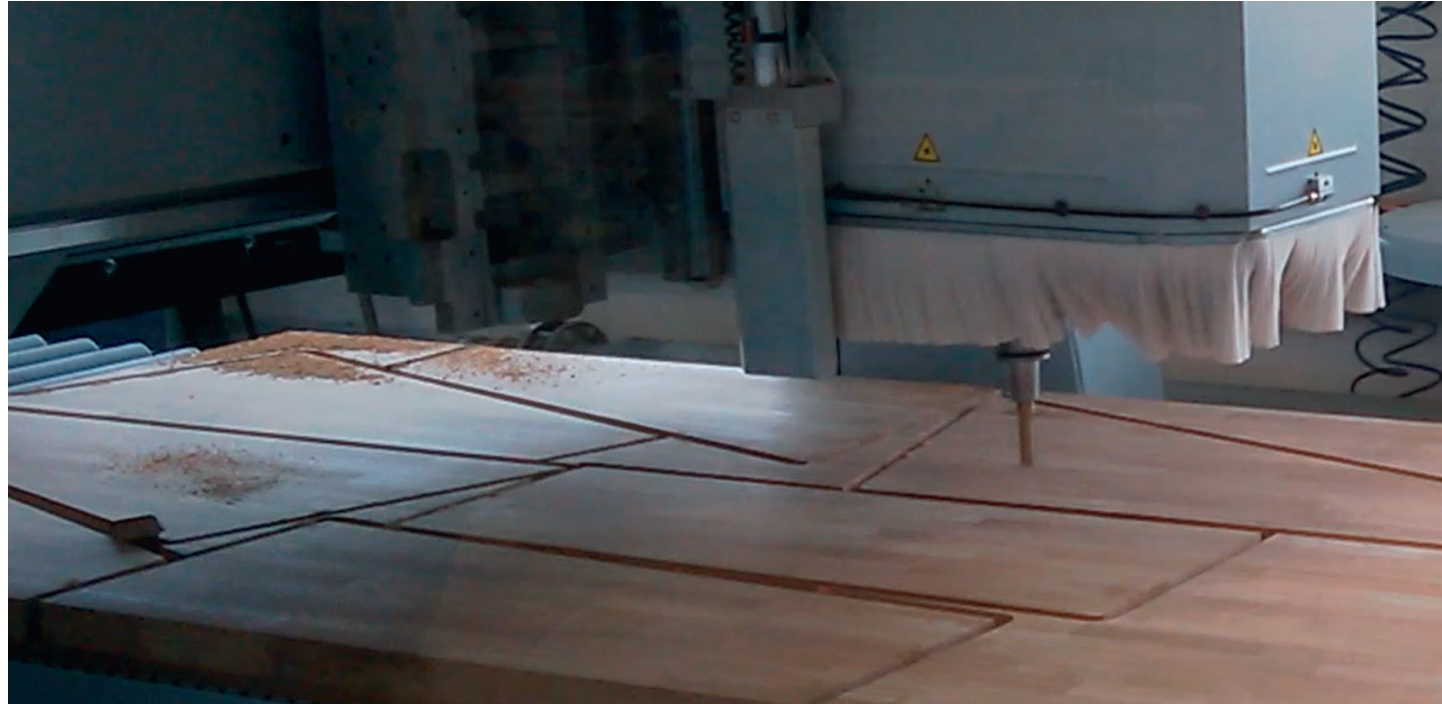
The new Plate Optimization Module 2.0 guarantees optimal material utilization with minimal waste.

The system calculates the most ideal arrangement of staircase parts on the plate, so that the left-over material is as small as possible. The plates are utilized to maximum capacity. The module also includes a clear warehouse management system.

The module can be used effectively for the following parts:

- Treads
- Risers
- Stringers
- Railing parts
- All parts mixed

It is possible to decide which individual parts are to be optimized. The user predetermines whether only one kind of staircase part is to be combined per plate, e.g. only treads, or whether several kinds of staircase parts are to be mixed, e.g. treads, stringers, and risers.



The optimization is possible to go with the grain or turned at a 90° angle.

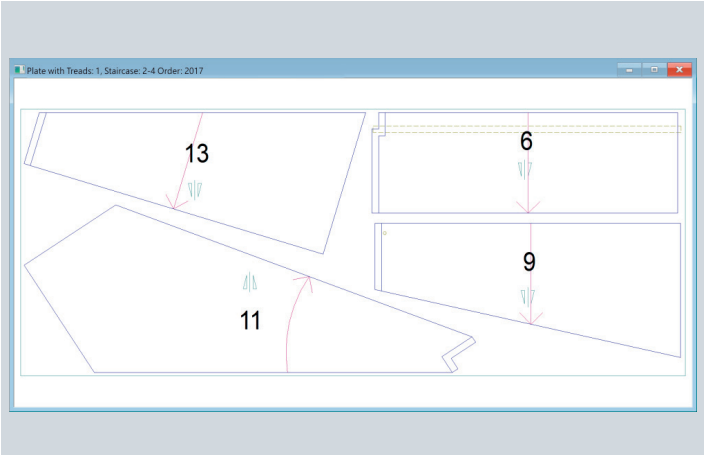
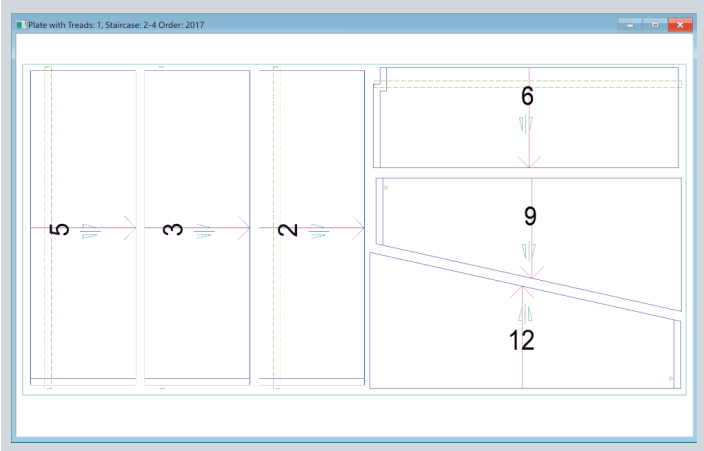
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Data is read in and optimized with one click

Once the user has selected which parts are to be optimized, the process is initiated with only one click.

After only a few seconds a graphical representation of the optimized plate with the parts appears on the screen.

Neutral optimization:  
For cases where the grain does not have to be considered.



General optimization:  
The grain of the wood is considered.

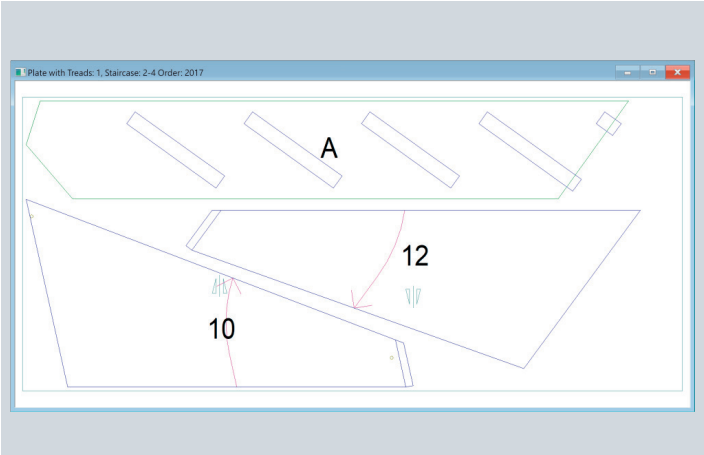


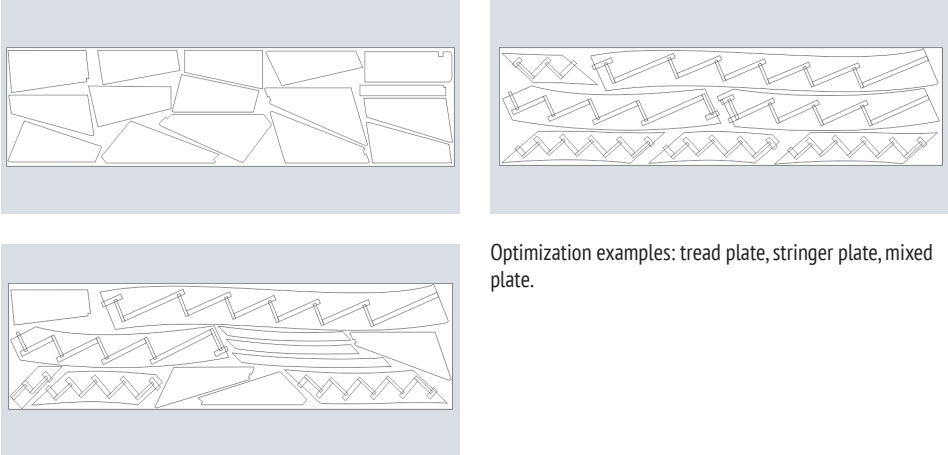
Table of boards								
Containing boards								
Material	Thickness	Width	Length	Combinations	Riser Combinations	Side parts	Plates	Number
Buche	1.60 cm	80.00 cm	200.00 cm		X		X	10
BØK	5.00 cm	80.00 cm	200.00 cm	X	X		X	10
Buche	4.00 cm	80.00 cm	100.00 cm				X	10
Buche	4.00 cm	80.00 cm	140.00 cm	X				10
Buche	4.00 cm	80.00 cm	160.00 cm			X	X	10
Buche	4.00 cm	80.00 cm	180.00 cm			X	X	10
Buche	4.00 cm	80.00 cm	200.00 cm	X		X	X	10
Buche	4.00 cm	100.00 cm	120.00 cm	X				10
Buche	10.00 cm	80.00 cm	200.00 cm	Y			Y	10

Inventory is recorded in a table of boards. The user is able to select a plate or a group of plates, to be used for optimization. Left-over plates are added back into the inventory.

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Compass Software Inc.  
1170 Howell Mill Road, Suite 300  
Atlanta, GA 30318  
Phone +1 678 244 1535  
mail@compass-software.com  
www.compass-software.com



Optimization examples: tread plate, stringer plate, mixed plate.