



Production Pallet  
UPplus<sup>®</sup>



## PRODUCT DETAILS

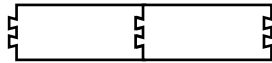
### WOOD SPECIES

pine, larch, spruce

### SIZES

Thickness: 40mm – 60mm  
 Width: 490mm – 1350mm  
 Length: 1080mm – 1500mm

### PROFILE & JOINTS



- Planks connected with double dovetail joints
- Additional gluing with waterproof PU glue (wood glue)

### EDGES

- C-profile edge protection made of galvanized steel secured with countersunk rivets (Ø6mm) and two force-fit impressions to avoid mechanical damages
- Longitudinal edges slightly beveled



countersunk rivets  
 made of steel  
 (Ø 6mm)



C-profile  
 (2mm thick)

double dovetail  
 joints

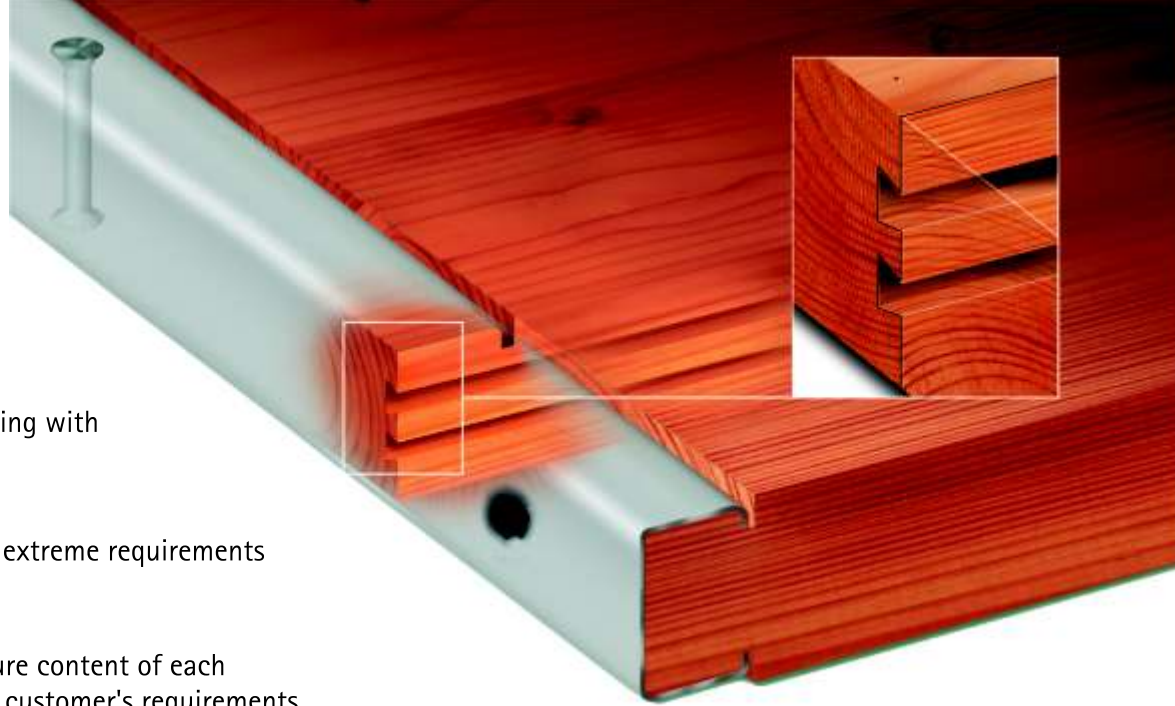
force-fit  
 impressions

### SURFACE

- production pallet sanded on both sides with 100% flat surfaces
- Knotholes/defects professional plugged with laminated natural wood dowels/repair strips
- Treated all sides with special impregnation oil



## ADVANTAGES



- ✓ Double locking thanks to double dovetail joints and additional gluing with waterproof PU glue (wood glue)
- ✓ Especially developed to fulfil the extreme requirements of the concrete industry
- ✓ Specific adaptation of the moisture content of each individual order according to the customer's requirements
- ✓ Very good transmission of vibrations and steady vibration behavior (continuous dovetail joints)
- ✓ Especially well-suited for concrete block machines with rinsing equipment because dripping of water through the planks connection is impossible
- ✓ Only selected and high quality softwood from top growing regions is used
- ✓ Permanent quality assurance executed by our skilled workers at all stages of production
- ✓ "used" boards are easily recyclable (possibly resaleable)
- ✓ Containerloading according to Phytosanitary Standards ISPM 15/2005.
- ✓ International service by our export team



## MAINTENANCE

### STORAGE

After the pallet has been delivered it must be inserted into the block making machine without delay. If temporary storage of the pallets is necessary, it is essential to keep the pallets in a covered place away from direct sunlight and wind, stored in neatly piled stacks.

### HANDLING

During production and during short shut downs developing moisture loss needs to be equalised, which is generally done by spraying the surface with water.



### UPPLUS CONCENTRATE

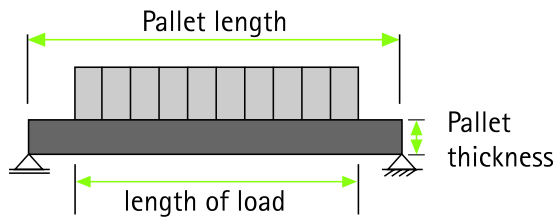
We recommend the application of our bio-degradable release agent UPplus® emulsion or concentrate in regular intervals while spraying. This will enhance longevity, since the wooden surfaces will be protected and the concrete products will be released easier.



## SAMPLE CALCULATION OF DIMENSIONS

Parameters for calculation are:

Calculation as one field support with uniform load



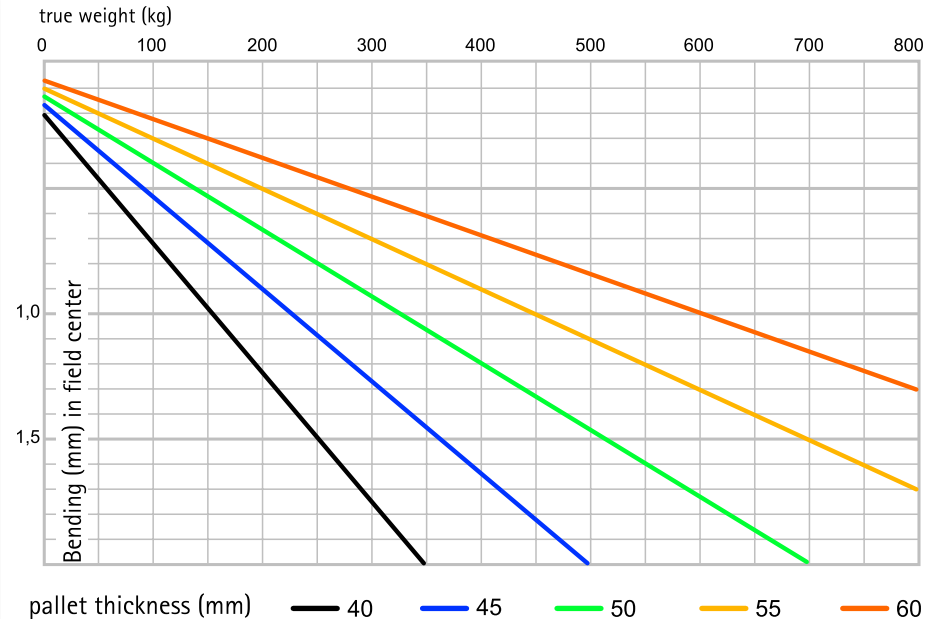
Upplus® with dovetail joint

Species	pine
Density	480 kg/m <sup>3</sup>
Moisture content	20%
Pallet length	1.400 mm
Pallet width	1.100 mm
Length of load	1.300 mm
Bending strength	49,25 N/mm <sup>2</sup> **
Module of elasticity	11.000 N/mm <sup>2</sup> **

\*\*average results reached by UPplus production pallets examination

## PRODUCTION PALLET UPPLUS FOR CONCRETE BLOCK PRODUCTION\*

Graphic determination of pallet thickness, load or max. bending based on two parameters for pine production pallets UPplus® with dovetail joint.



### NOTES

The graph is intended to be used only for initial dimensioning and does not replace the static proof. Influence of load bearing time (crawl effect) has not been considered.

\*the examinations and calculations of production pallets UPplus with dovetail joint were made in cooperation with the "Materialprüfungsanstalt Stuttgart" and the "Institut für Holztechnologie Dresden GmbH".

