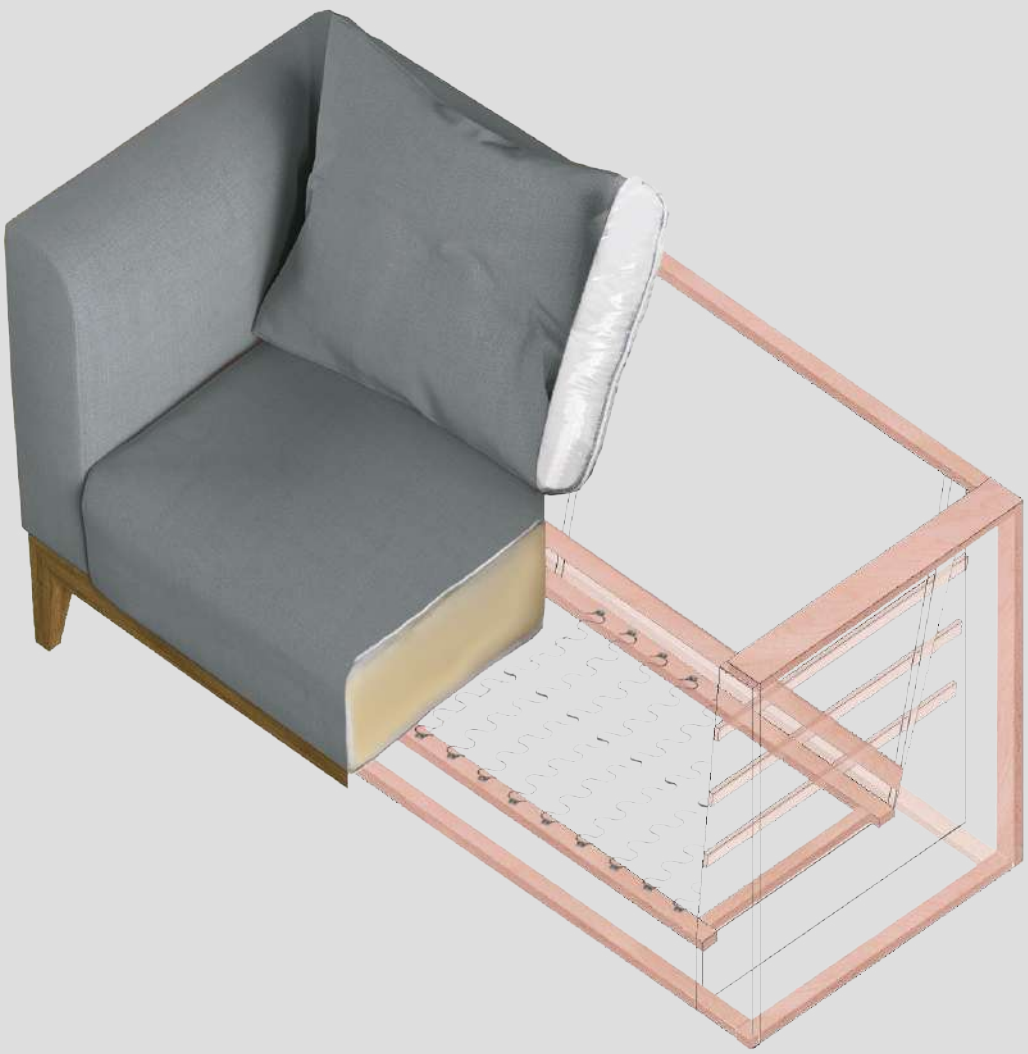
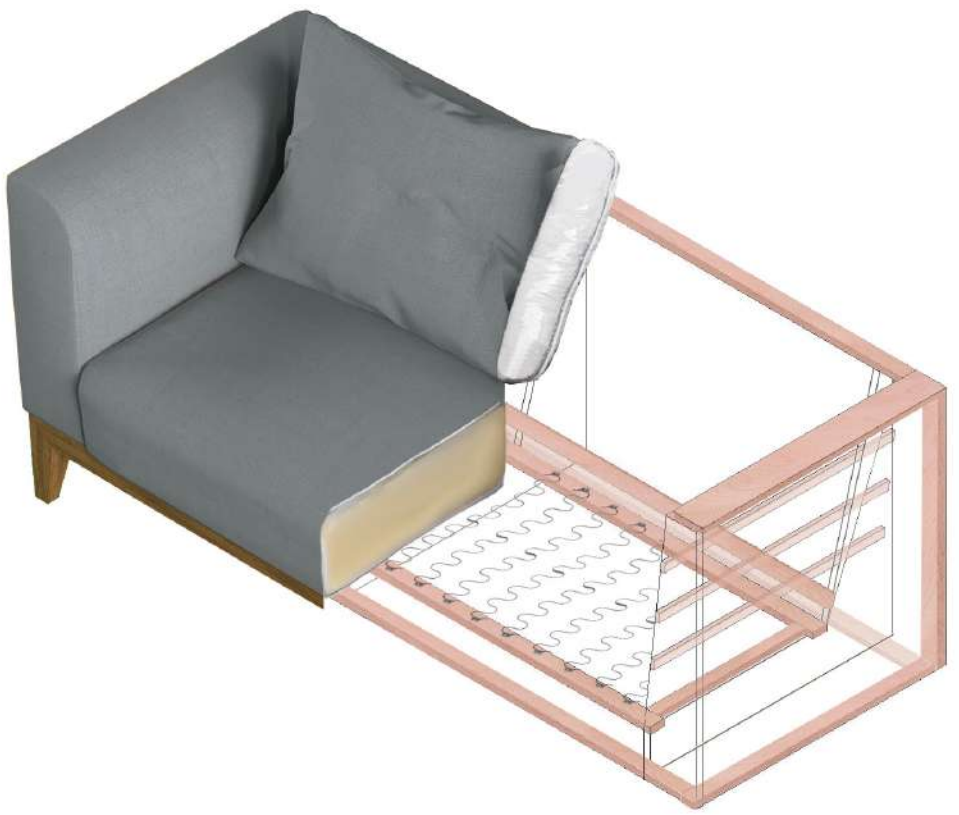
Pollmeier

FURNITURE FRAME COMPONENTS



Reduce costs.
Introduce new possibilities.



Furniture frame components from Pollmeier

Furniture frame production demands high-performance and economical timber solutions. Pollmeier products reduce your material costs and thus enable a more efficient production. Thanks to the latest scanner technology and our combination of orders within our global customer-base, we can cut custom parts from our hardwood boards to match your production requirements. Our products of consistent and predictable quality ensure you can manufacture your end-products at the same high level.

You can further optimize your frames with our high-performance laminated veneer lumber (LVL) made from beech or spruce.

Get the right products you need for your application.

At Pollmeier, we are aware that every frame has individual requirements. For this reason, we offer our partners a broad product portfolio, which guarantees to provide the right solution for every type of frame in the sector.

Find the ideal solution for your individual requirements in this brochure.

Pollmeier COMPONENTS

_Perfect for serial production

_Saves time-consuming work steps in production

_Highest cost savings

_No planing necessary

Virtually flawless product

Cut after drying

Dimensionally stable

Cut to a defined standard width and length

Standard Ripped-to-Width | "Prime Frame" Beech

_Perfect for serial production and for small and medium batch sizes

_For flexible components in short, medium and long lengths

_Extremely economical price

_No planing necessary

Optimized frame grade

Cut after drying

Dimensionally stable

Cut to a defined standard width

Technical Details	Pollmeier COMPONENTS and Standard RTW made of solid beech wood
MoE	14000 N/mm²
Average density	720 kg/m³
Wood moisture content	KD 7-9 %
Pre-sanded	23.8 mm in thickness
Low tension	thanks to optimized drying process

Sawn timber - SCR, COR, COL, CS1

_Perfect for individual and flexible production in various thicknesses and widths

Parallel edged

Well-known Pollmeier quality standard (KD 7-9 %, lightly steamed, pre-sanded)

Available in various thickness (23 - 78 mm)

Sorted according to NHLA criteria

Technical Details	Sawn timber
MoE	14000 N/mm²
Average density	720 kg/m³
Wood moisture content	KD 7-9 %
Pre-sanded	20 - 74.5 mm in thickness
Low tension	through optimized drying process

Notes

Pollmeier COMPONENTS // Solid Beech

Grading CCC | colour no defect

Clean front with occasional small defects on backside.
Colour variations permissible on all sides, i.e. red heart, blue stains, mineral streaks.

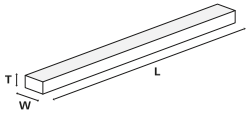
Approx. 90% of the COMPONENTS are clean, colour and pin knots not determined as a defect.
Hence approx. 10% of the lamellas can have additional natural attributes.

Front

Back

COMPONENTS // Solid Beech standard dimensions in stock

length \ width	42 mm		45 mm		54 mm		68 mm		80 mm		100 mm		125 mm	
	Pcs.	Vol [m³]	Pcs.	Vol [m³]	Pcs.	Vol [m³]	Pcs.	Vol [m³]	Pcs.	Vol [m³]	Pcs.	Vol [m³]	Pcs.	Vol [m³]
COMPONENTS														
3,000 mm		3.3		3.4		3.4		3.4		3.5		3.4		3.1*
2,750 mm		3.0		3.1		3.1		3.1		3.2		3.2		2.9
2,400 mm		2.6		2.7		2.7		2.7		2.8		2.8		2.5
2,250 mm	1,000	2.5	960	2.5	800	2.5	640	2.6	560	2.6	440	2.6	320	2.3
2,200 mm		2.4		2.5		2.5		2.5		2.6		2.5		2.3
2,100 mm		2.3		2.4		2.4		2.4		2.5		2.4		2.2
2,000 mm		2.2		2.3		2.3		2.3		2.3		2.3		2.1
1,900 mm		2.2		2.2		2.1		2.2		2.2		2.2		2.0
1,800 mm		2.0		2.1		2.0		2.0		2.1		2.1		1.9
1,600 mm		1.8		1.9		1.8		1.8		1.9		1.8		1.7
1,500 mm	1,040	1.7	960	1.8	800	1.7	640	1.7	560	1.8	440	1.7	320	1.6
1,400 mm		1.6		1.6		1.6		1.6		1.6		1.6		1.5
1,300 mm		1.5		1.5		1.5		1.5		1.5		1.5		1.4
1,200 mm		1.4		1.4		1.4		1.4		1.4		1.4		1.3
1,000 mm		1.1	1,000	1.2		1.1		1.1		1.2		1.1		1.0
900 mm		1.0		1.0		1.0		1.0		1.0		1.0		0.9
800 mm		0.9		0.9		0.9		0.9		0.9		0.9		0.8
750 mm	1,040	0.9	1,000	0.9	800	0.8	640	0.9	560	0.9	440	0.9	320	0.8
700 mm		0.8		0.8		0.8		0.8		0.8		0.8		0.7
650 mm		0.7		0.8		0.7		0.7		0.8		0.7		0.7
600 mm		0.7		0.7		0.7		0.7		0.7		0.7		0.6
550 mm		1.2		0.6		1.2		1.2		1.3		1.3		1.1
500 mm		1.1	1,000	0.6		1.1		1.1		1.2		1.1		1.0
450 mm	2,080	1.0		0.5	1,600	1.0	1,280	1.0	1,120	1.0	880	1.0	640	0.9
400 mm		0.9	2,000	0.9		0.9		0.9		0.9		0.9		0.8
350 mm		0.8		0.8		0.8		0.8		0.8		0.8		0.7
300 mm	3,120	1.0	3,000	1.1	2,400	1.0	1,920	1.0	1,080	1.0	1,320	1.0	960	0.9
250 mm		0.9		0.9		0.8		0.9		0.9		0.9		0.8
200 mm	4,160	0.9	4,000	0.9	3,200	0.9	2,560	0.9	2,240	0.9	1,760	0.9	1,280	0.8
150 mm	5,200	0.8	5,000	0.9	4,000	0.8	3,200	0.8	2,800	0.9	2,200	0.9	2,200	0.7
COMPONENTS SORTED-TO-LENGTHS														
2,701 - 3,000 mm		3.1		3.2		3.2		3.2		3.3		3.3		3.0
2,401 - 2,700 mm		2.8		2.9		2.9		2.9		3.0		2.9		2.7
2,101 - 2,400 mm	1,000	2.6	960	2.5	800	2.5	600	2.5	560	2.6	440	2.6	320	2.3
1,801 - 2,100 mm		2.1		2.2		2.2		2.2		2.3		2.2		2.0
1,501 - 1,800 mm		1.8		1.9		1.9		1.9		1.9		1.9		1.7



Solid Beech: Lightly steamed | Homogenously dried to 7-9% KD | Calibrated thickness | Cut-to-size after kiln drying

Tolerances: Thickness: approx. ±0.3 mm calibration tolarance | approx. ≤1 mm hit-and-miss tolerance
Width: approx. ±0.5 mm | Length: approx. ±1 mm per linear metre
Tolerances refer to a moisture content of 7-9% (solid beech lumber). The swelling and shrinking behaviour of higher equilibrium moisture contents must be taken into account.

* Available only in CCC.
Customised lengths are available upon request for orders of 18m³ volume or more per dimension.

STANDARD RIPPED-TO-WIDTH

Prime Frame

FRONT

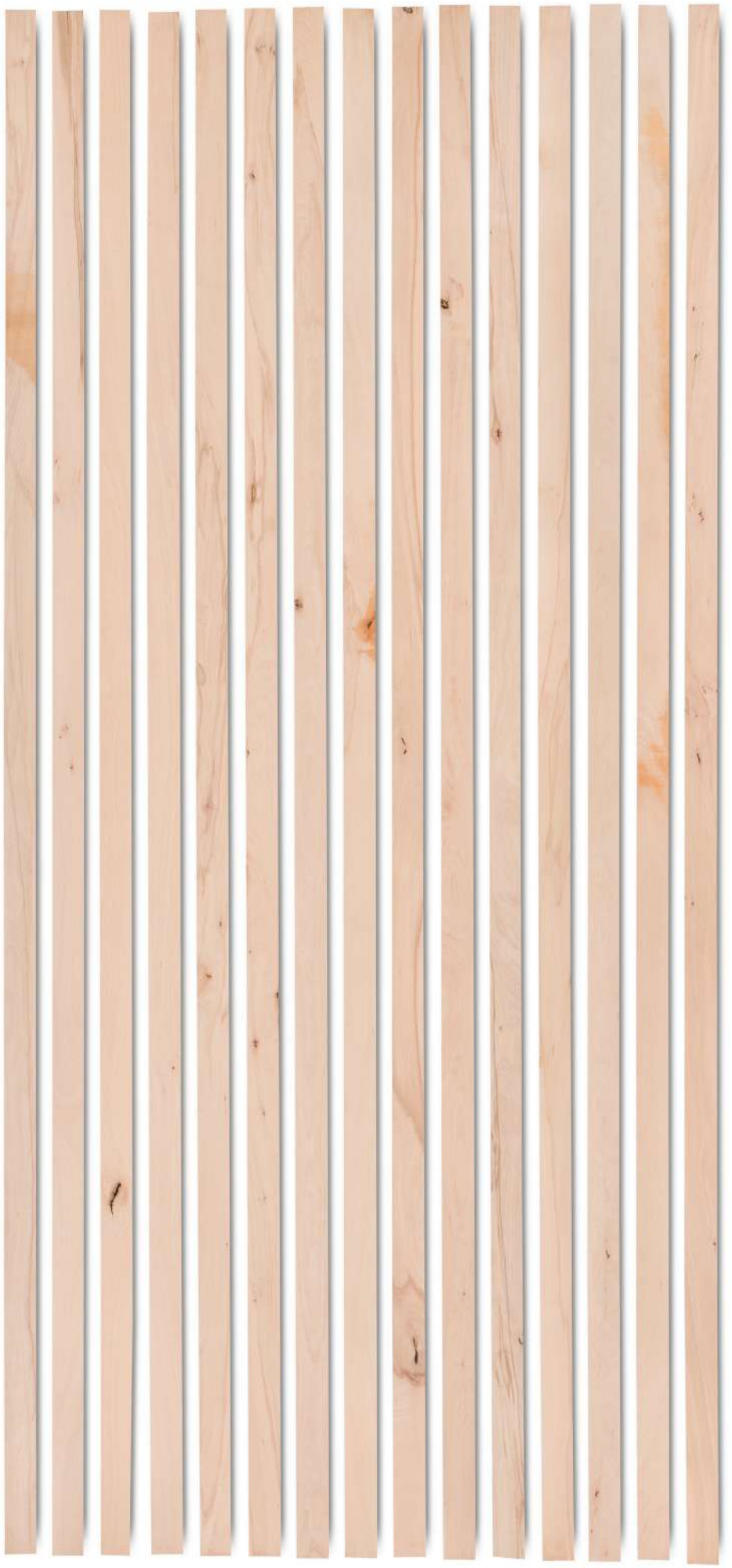
_Contains predominantly smaller defects

_Designed to use at high yield in upholstery frames

- Width:
  42 mm
  48 mm
  54 mm
  68 mm
  80 mm
  100mm
  125 mm
  (any width >40mm possible on request)

- Length:
  2.45 m
  3.05 m
  3.35 m
  (plus 2 - 3 cm, occasional back-cuts permitted (approx. 10%))

- Thickness* (pre-sanded):
  26 mm (23.8)



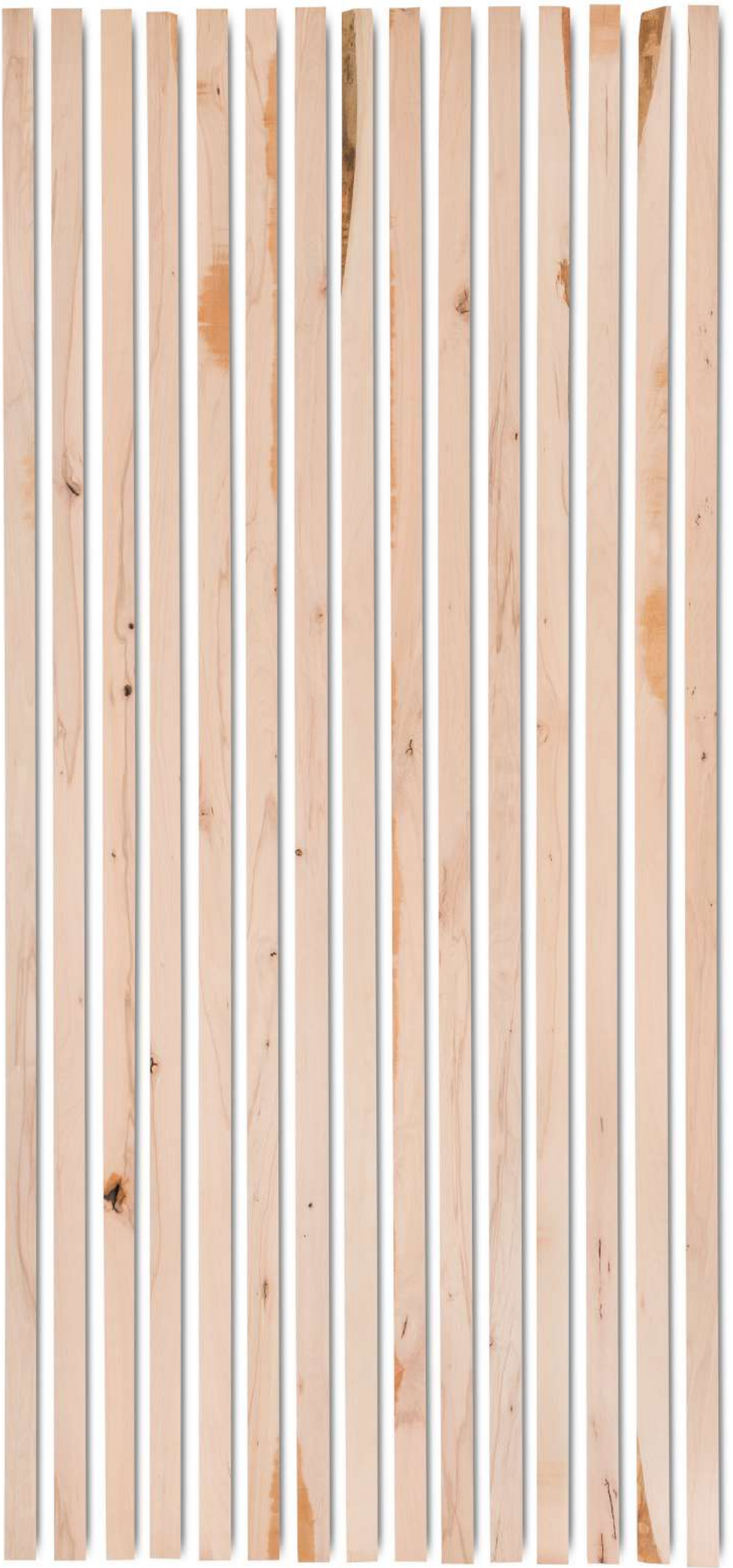
Photos of samples for the visualisation of sorting requirements. Print and photo-related colour deviations (from the original) possible.

*Tolerance approx. ± 0.3 mm

STANDARD RIPPED-TO-WIDTH

Prime Frame

BACK



Photos of samples for the visualisation of sorting requirements. Print and photo-related colour deviations (from the original) possible.

SAWN TIMBER

Superior Colour Redheart

FRONT

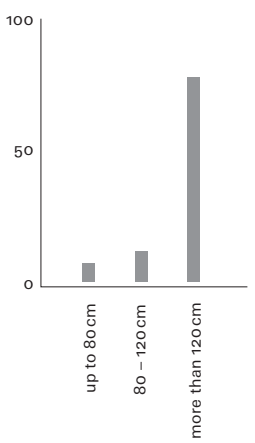
_Almost flawless appearance with redheart

_Cuttings* with redheart

_Cuttings on front and back

- Width:
  from 100 mm
- Length:
  2.45 m
  3.05 m
  3.35 m
- Thickness** (pre-sanded):
  26 mm (23.8)
  32 mm (29.5)
  38 mm (36.0)
  52 mm (48.5)

Average percentage of defect-free lengths, for 40/50 mm wide strips



*Cuttings are rectangular areas representing defect-free sections.

**Tolerance approx. ± 0.3 mm

Photos of samples for the visualisation of sorting requirements. Print and photo-related colour deviations (from the original) possible.

SAWN TIMBER

Superior Colour Redheart

BACK

Photos of samples for the visualisation of sorting requirements. Print and photo-related colour deviations (from the original) possible.

SAWN TIMBER

Colour Redheart

FRONT

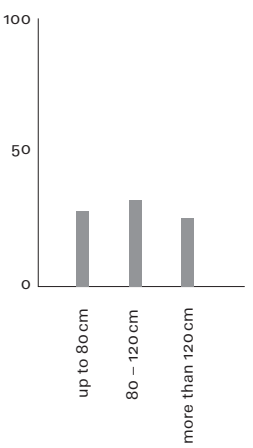
_Medium redheart grading

_Cuttings* with redheart

_Cuttings on front and back

- Width:
  from 75 mm
- Length:
  2.45 m
  3.05 m
  3.35 m
- Thickness** (pre-sanded):
  26 mm (23.8)
  32 mm (29.5)
  38 mm (36.0)
  52 mm (48.5)

Average percentage of defect-free lengths, for 40/50 mm wide strips



*Cuttings are rectangular areas representing defect-free sections.

**Tolerance approx. ± 0.3 mm

Photos of samples for the visualisation of sorting requirements. Print and photo-related colour deviations (from the original) possible.

SAWN TIMBER

Colour Redheart

BACK

Photos of samples for the visualisation of sorting requirements. Print and photo-related colour deviations from the original possible.

SAWN TIMBER
Colour

FRONT

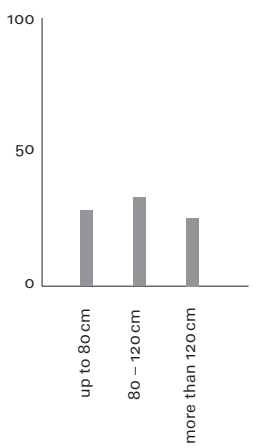
_Frame-grading

_Cuttings* without colour requirements

_Cuttings on front and back

- Width:
  from 75 mm
- Length:
  2.45 m
  3.05 m
  3.35 m
- Thickness** (pre-sanded):
  23 mm (20.0)
  26 mm (23.8)
  32 mm (29.5)
  38 mm (36.0)
  46 mm (43.0)
  52 mm (48.5)
  65 mm (63.0)
  78 mm (74.5)

Average percentage of defect-free lengths, for 40/50 mm wide strips



*Cuttings are rectangular areas representing defect-free sections.

**Tolerance approx. ± 0.3 mm

Photos of samples for the visualisation of sorting requirements. Print and photo-related colour deviations (from the original) possible.

SAWN TIMBER
Colour

Back

Photos of samples for the visualisation of sorting requirements. Print and photo-related colour deviations (from the original) possible.

SAWN TIMBER

Cabinet / Custom Shop 1 Face

FRONT

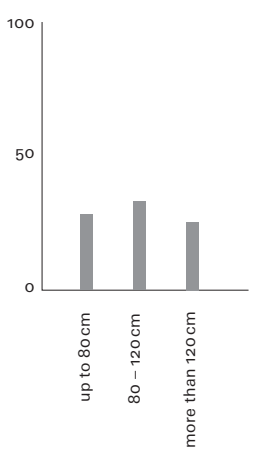
_Medium grading

_Defect-free Cuttings*

_Cuttings on front side only

- Width:
  from 75 mm
- Length:
  2.45 m
  3.05 m
  3.35 m
- Thickness** (pre-sanded):
  23 mm (20.0)
  26 mm (23.8)
  32 mm (29.5)
  38 mm (36.0)
  46 mm (43.0)
  52 mm (48.5)
  65 mm (63.0)
  78 mm (74.5)

Average percentage of defect-free lengths, for 40/50 mm wide strips



*Cuttings are rectangular areas representing defect-free sections.

**Tolerance approx. ± 0.3 mm

Photos of samples for the visualisation of sorting requirements. Print and photo-related colour deviations (from the original) possible.

SAWN TIMBER

Cabinet / Custom Shop 1 Face

BACK

Photos of samples for the visualisation of sorting requirements. Print and photo-related colour deviations (from the original) possible.

Pollmeier Components in LVL

Perfect for high-strength parts

With our LVL components in spruce or beech, you can optimize your frames and simplify processing.

Laminated veneer lumber (LVL) consists of multiple veneer layers stacked and glued together. Natural defects in the wood are evened out across the entire cross-section, resulting in a homogeneous wood material of outstanding strength. Thanks to the homogenized material, a complaint rate of almost zero percent is achieved.

Beside LVL components, we also offer our laminated veneer lumber in board form, giving you the opportunity to cut your own individual dimensions, even in the smallest quantities for bespoke projects.

Spruce LVL:
Our strong and lightweight solution

- Ideal for components subject to high stress loads
- Material savings thanks to reduction in cross-sections (downsizing)
- Light and dimensionally stable
- Easy processing and machining
- Suitable for all fastening elements

BauBuche (LVL):
The best of both worlds

- Extremely performing given its hardwood nature
- Material savings thanks to reduction in cross-sections (downsizing)
- Highest screw extraction values (pull-out strength)
- Extremely high bending and compressive strength

Technical Details	Spruce LVL
Bending strengths	50 N/mm² (flatwise) 44 N/mm² (edgewise)
MoE	14000 N/mm²
Average density	540 kg/m³
Wood moisture content	approx. 7-9 %

Technical Details	BauBuche (LVL)
Bending strength	80 N/mm² (flatwise) 75 N/mm² (edgewise)
MoE	16800 N/mm²
Average density	800 kg/m³
Wood moisture content	approx. 6-8 %

Furniture Frame Components - LVL

Overview - Dimensions

LVL Components

Material	Thickness (mm)	Width (mm)	Length (mm)
BauBuche cut-to-size	21 | 24 | 27 [a)]	15 - 230	700 - 6000
Spruce LVL cut-to-size	21 - 81 [a)]	15 - 230	700 - 6000
Tolerances [b)]	approx. ± 0.3 mm (planed) approx. +0.3 / -1 mm (equalized) [a)]	approx. ± 0.3 mm	approx. ± 1 mm per meter

Standard LVL pack dimensions

Lengths (mm)	3000 | 4000 | 4500		
Thickness (mm)	24		
Width (mm)	45 | 50		
pieces per pack			
	for 24 x 45 mm	full pack: 864 pc.	half pack: 432 pc.
	for 24 x 50 mm	full pack: 792 pc.	half pack: 396 pc.

LVL Boards

Material	Thickness (mm)	Width (mm)	Length (mm)
BauBuche board	21 | 24 | 27 [a)]	600 | 900	2.000 - 6.000
Spruce LVL board	21 - 81 [a)]	600 | 900	2.000 - 6.000
Tolerances [b)]	approx. +0.5 / -1 mm (equalized) [a)]	approx. ± 1.5 mm	approx. ± 5 mm per meter

Other dimensions available on request!

a) Unsanded; additional sanding possible.
b) The tolerances given refer to the wood moisture content of the respective LVL product ex works Creuzburg. The swelling and shrinkage behavior at higher equilibrium moisture levels must be taken into account

Notes

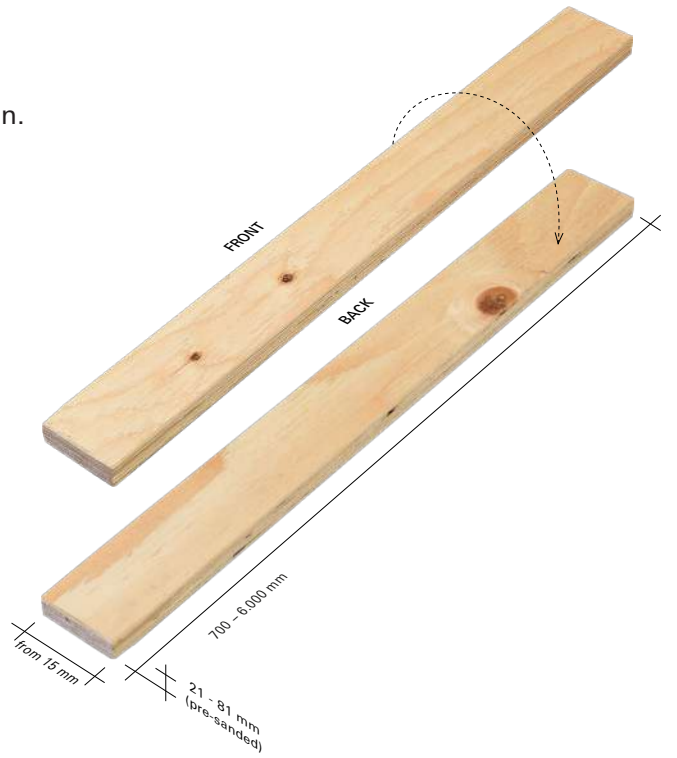
LVL Components

Spruce LVL

_Spruce veneers may contain natural wood characteristics such as knots, splits and colour variation.

_Visible glue joints on top veneer layer.

_Applications for upholstered furniture frames, reinforcement bars.



FRONT

BACK

Photos of samples for the visualisation of sorting requirements. Print and photo-related colour deviations (from the original) possible.

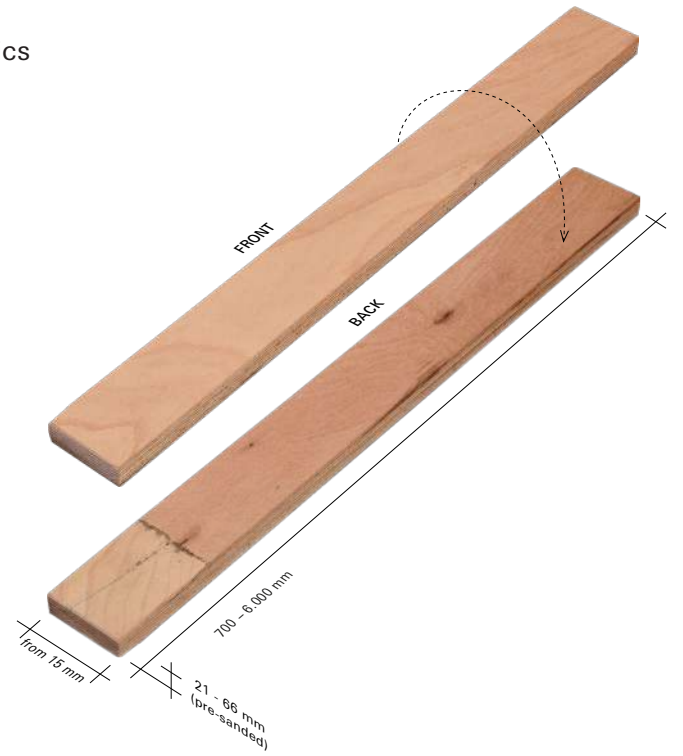
Thickness, lengths, width, refer to page 19

LVL Components
BauBuche

_Beech veneers may contain natural wood characteristics such as knots, splits and colour variations.

_Visible glue joints on top veneer layer.

_Applications for upholstery frames, bed slats, reinforcement bars.



FRONT

BACK

Photos of samples for the visualisation of sorting requirements. Print and photo-related colour deviations (from the original) possible.

Thickness, lengths, width, refer to page 19

Cost comparison between unedged lumber and Pollmeier Prime Frame components

What else you should know about unedged frame-grade lumber:

Birch frame-grade material

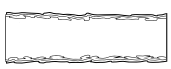
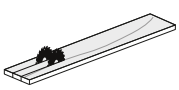
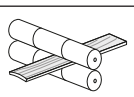
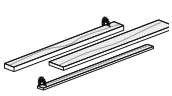
_Moisture problems: Often insufficiently dried wood, increased risk of mold in the frame.

_Warped parts: Poor drying leads to twisting and warping of long parts.

_High variance in sorting: considerable workload.

_Careful: Birch is currently at high risk of being sourced from controversial sources non compliant with FSC- and PEFC regulations. Thus, certificates don't always align with the origin of the material.

Example of cost calculation for unedged frame grade lumber and Pollmeier Prime Frame beech

		Unedged frame-grade lumber, B/C grade			
		Yield	Unit cost EUR/m^3	Total costs EUR/m^3	Notes
	Purchase price			240	
	Difference in volume (1x wane included in price)*		+27	267	Average 10% loss
	Measurement control, packaging, storage, Stock transfer, handling in production		+30	297	Labour costs per m^3 of raw material
	Width cut Yield	70 %	+127	424	(Pith unusable = additional waste)
	Width cut Operation		+40	464	Labour costs per m^3 raw material
	Pre-planing work step		+40	504	Labour costs per m^3 raw material
	Length cut Yield	75 %	+168	672	
	Length cut Operation		+40	712	Labour costs per m^3 raw material
	Total yield			**47 %**	
	Real costs per m3 of components			**712 EUR/m^3**	

* Scan the QR code and watch a video about calculating the volume of unedged frame-grade lumber.

Pollmeier Standard Ripped-To-Width | Prime Frame

_Prime Frame from Pollmeier has substantial cost advantages over unedged frame-grade lumber.
_See here how Pollmeier RTW can be used efficiently for furniture production:

Cost comparison between unedged lumber and Pollmeier Prime Frame components

Beech frame-grade lumber

_Measurement: ½ of the wane is also paid for.

_Additional costs: Increased expenses for measurement.

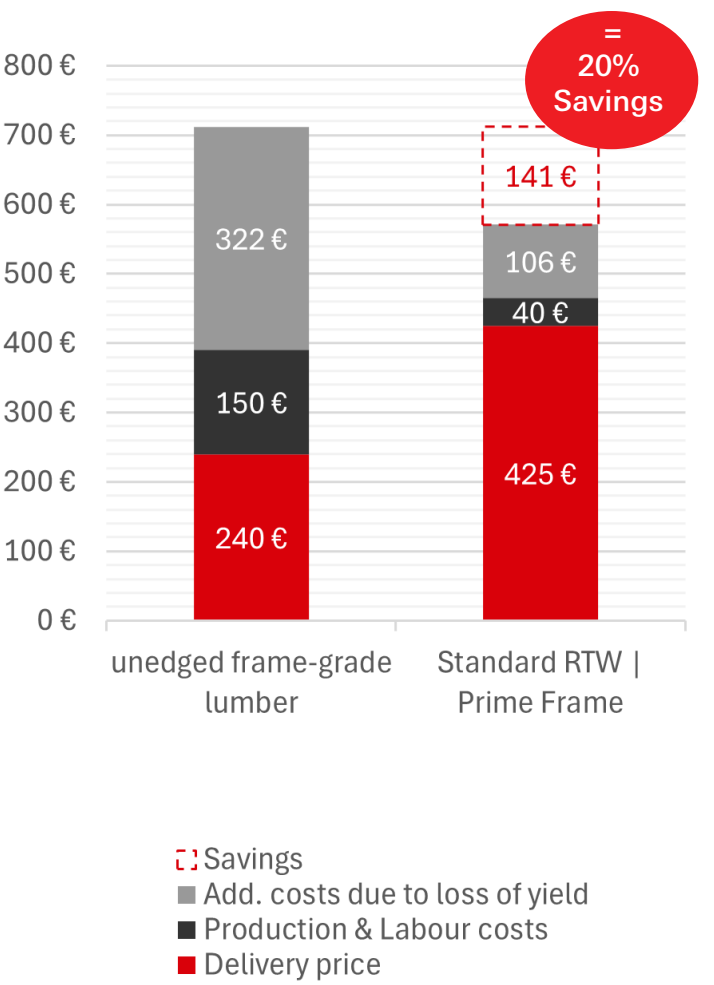
_High processing costs: Many work steps to get to the finished slat.

_Inconsistent wood moisture: high degree of twisting and warpage, especially for long parts.

Pollmeier

Standard RTW | Prime Frame

Yield	Unit cost EUR/m³	Total costs EUR/m³	Notes
		425	
	0	425	No loss
	0	425	No measurement control
	0	425	No pith
	0	425	No width cut necessary
	0	425	No planing necessary
80%	+106	531	
	+40	571	Labour costs per m³ raw material
		80 %	
		571 EUR/m³	



Savings with Prime Frame 141 EUR/m³

We are happy to work out a customized calculation with you to determine your personal cost advantage.

Pollmeier Furniture Frame Components

Reduce costs. Introduce new possibilities.

The production site in Aschaffenburg is Europe's largest solid wood cutting plant.

With the right products from Pollmeier, you can optimize transport, reduce waste and production costs.
Call us for a non-binding offer.

sales@pollmeier.com
+49 36926 945 163

Our products are PEFC certified

PEFC™
PEFC/04-31-0545

Pollmeier