



rettenmeier[®]

ZUNFTHOLZ



rettenmeier® PREMIUM OF WOOD


Our product selection is as multifarious as the wood itself. In keeping with our values, we strive to offer a range that meets the needs of our customers and the market. **Consistently excellent quality. Precisely customized. You can count on rettenmeier® always.**



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MORE ...**




**TOGETHER WE
CAN ACHIEVE
MORE.
TEAMWORK
IS THE KEY TO
SUCCESS.**



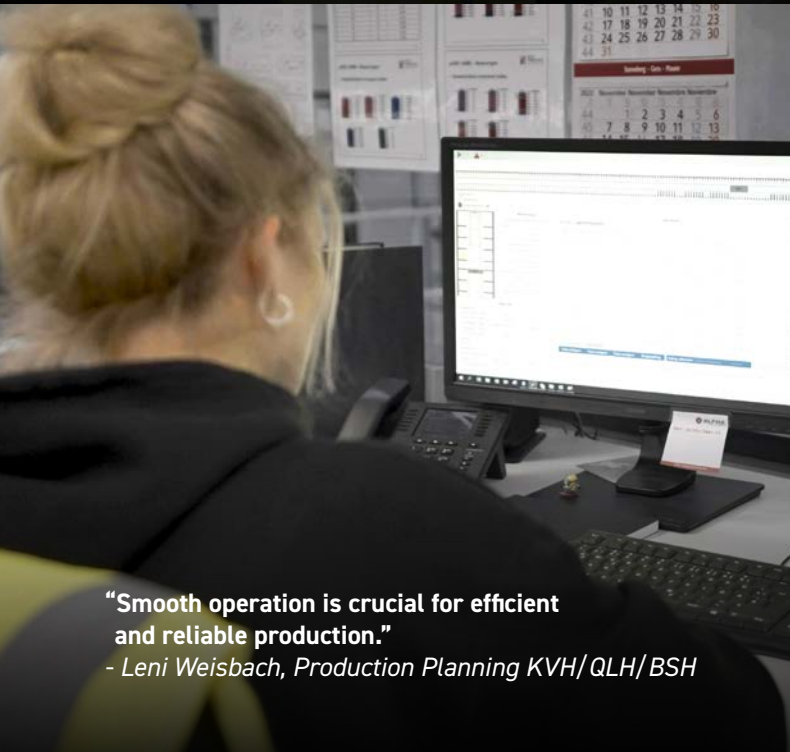
“With our highly automated production facilities, we achieve maximum flexibility and can therefore meet any customer requirement.”
- Uwe Lutz, Site Manager Hirschberg




“Our rettenmeier® ZUNFTHOLZ PREMIUM WOOD stands for high-quality construction timber and guarantees consistent quality.”
- Peter Neumeister, Machine operator, Quality Grading



“With our modern fleet, we ensure the reliable and timely transport of our goods.”
- Karsten Sachse, Professional Driver



“Smooth operation is crucial for efficient and reliable production.”
- Leni Weisbach, Production Planning KVH/QLH/BSH



“With our modern high-performance sorting plant with planing bypass, we are ideally equipped for all tasks.”
- Philipp Mohr, Shift Manager BSH/Quality Sorting

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KVH®

QLH DUO/TRIO

BSH

CE SAWN TIMBER

SAWN TIMBER



HIGH-TECH PRODUCTION

In our new production facilities, we manufacture KVH® and BSH glued laminated timber from batch size 1 with high productivity and quantity output. This makes us a **full-service provider** that a large number of quality-conscious carpenters and woodworkers have trusted for decades.

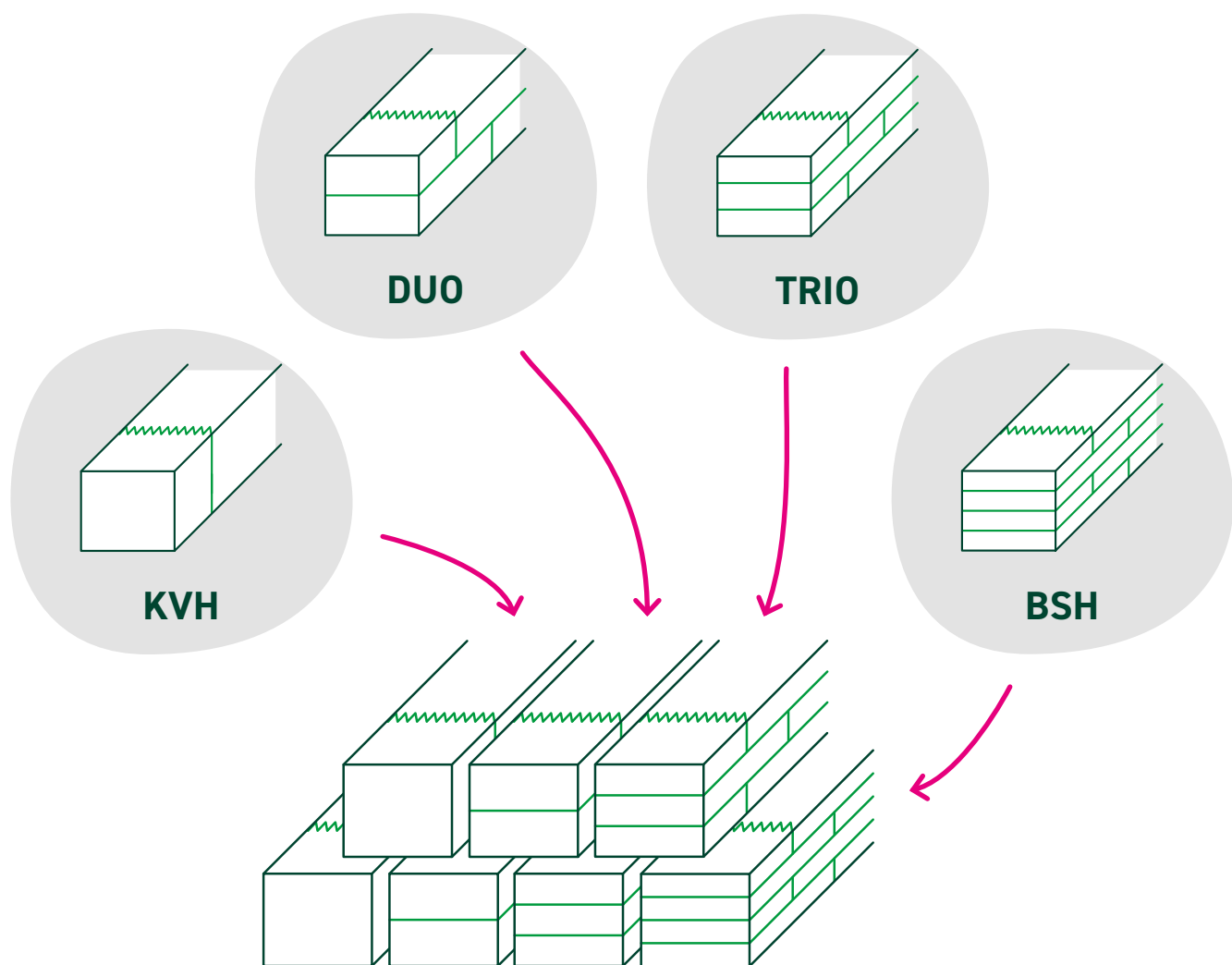


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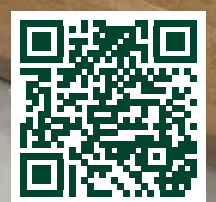
CUSTOMISED PRODUCTION ACCORDING TO CUSTOMER REQUIREMENTS

In our automatic order picking, we can depict **customer-specific requests** from lot size 1 – KVH®, DUO, TRIO, BSH – **all from a single source.**





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MORE ...**





KVH®

SOLID STRUCTURAL TIMBER

At the Hirschberg site, we produce KVH®-1plus®, a **high-quality solid wood product** for timber construction. As well as creating products for sustainable use, we strive to develop products from our valuable raw material that meet the highest quality requirements.



KVH®

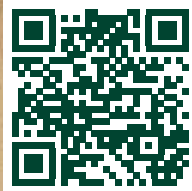
QLH DUO/TRIO

BSH

CE SAWN TIMBER

SAWN TIMBER

**LEARN
MORE ...**



KVH[®]-1PLUS[®] N-VIS

PRODUCT DESCRIPTION:

- CE solid structural timber for non-visible areas (n-vis)
- spruce/fir C24
- finger-jointed in accordance with DIN EN 15497
- cut, heartwood-separated
- dried to approximately 15% ± 3% wood moisture content
- planed
- chamfered edges



PRODUCT BENEFITS:

- dimensionally accurate
- form and dimensional stability
- calculable
- quality-tested
- decorative

Solid structural timber KVH[®]-1plus[®] n-vis, spruce/fir, made in Germany 

| | | WIDTH | | | | | |
|------------|------------|--------|--------|--------|--------|--------|--------|
| pcs/pallet | | 60 mm. | 80 mm | 100 mm | 120 mm | 140 mm | 160 mm |
| THICKNESS | 40 mm | 216 * | 168 * | 132 ** | 108 ** | 96 ** | 84 ** |
| | 50 mm | | 140 * | 110 ** | 90 | 80 | 70 |
| | 60 mm | 144 * | 112 * | 88 | 72 | 64 | 56 |
| | 80 mm | | 84 * | 66 | 54 | 48 | 42 |
| | 100 mm | | | 44 | 36 | 32 | 28 |
| | 120 mm | | | | 36 | 32 | 28 |
| | pcs/pallet | | 180 mm | 200 mm | 220 mm | 240 mm | 260 mm |
| 40 mm | 72 ** | 60 ** | | 48 ** | | | |
| 50 mm | 60 | 50 | 50 | 40 | | | |
| 60 mm | 48 | 40 | 40 | 32 | 32 | 32 | |
| 80 mm | 36 | 30 | 30 | 24 | 24 | 24 | |
| 100 mm | 24 | 20 | 20 | 16 | 16 | 16 | |
| 120 mm | 24 | 20 | 20 | 16 | | | |

* separation products as construction timber
 ** construction timber; C24 possible on request

Lengths on request | Warehouse lengths: 5.00 m and 13.00 m

Examples of applications: Wooden frame construction, low-energy and passive houses, environmentally friendly and ecological wooden constructions, roof constructions, ceiling constructions, etc.

LIST BY DIMENSION MADE OF KVH®-1PLUS®

We would also be happy to produce KVH® for you according to the list without any length waste. Many lengths, packages and custom dimensions are also possible! Produced according to your requirements, labelled and delivered by us, for further processing exactly as you wish. Please contact us for more information!



PRODUCT DESCRIPTION:

- CE solid structural timber for non-visible areas (n-vis)
- spruce/fir C24
- finger-jointed in accordance with DIN EN 15497
- cut, heartwood-separated
- dried to approximately 15% ± 3% wood moisture content
- planed
- chamfered edges
- packages wrapped in film

Dimension
(mm)

Service description/delivery option

ZUNFTHOLZ, list (length-optimised without wastage, double and multiple lengths), made in Germany

| | |
|-------------------|---|
| 60 x 100 - 280 | • length-optimised poles without waste in double or multiple lengths (max. 16.00 m) |
| 80 x 100 - 280 | • shortest possible length KVH = 2.00 m, shortest possible length Duo = 4.00 m |
| 100 x 100 - 280 | • production-related oversize of the optimised pole of approx. 30 mm |
| 120 x 120 - 280 | • allowance of 8 mm taken into account for multiple lengths per chop cut |
| 140 x 140 - 280 * | • individual items located in the pole are printed on the face of the label |
| 160 x 160 - 280 * | |

* Dimensions from 140 x 140 mm as Duo n-vis according to list in MFL

ZUNFTHOLZ, list "fix", (waste-free list, fixed length -0/+2 mm), made in Germany

| | |
|-----------------|--|
| 60 x 100 - 280 | • minimum purchase per cross-section and length approx. 3 m³ (e.g. 60 x 120 mm – 2.56 m – 162 units or 80 x 180 mm – 8.25 m – 25 units) |
| 80 x 100 - 280 | • waste-free, fix trimmed on ordering (-0/+2 mm) |
| 100 x 100 - 280 | • shortest possible length = 2.00 m |
| 120 x 120 - 280 | |
| 140 x 140 - 280 | |
| 160 x 160 - 280 | |

Examples of applications: Wooden frame construction, passive house construction, roof constructions, carports, environmentally friendly and ecological wooden constructions, etc.

N-VIS CONSTRUCTION TIMBER

PRODUCT DESCRIPTION:

- construction timber for non-visible areas (n-vis)
- spruce/fir
- cut, heartwood-separated
- dried to approximately 15% ± 3% wood moisture content
- planed
- chamfered edges



PRODUCT BENEFITS:

- dry
- dimensionally accurate
- form and dimensional stability
- calculable
- quality-tested

Construction timber n-vis, spruce/fir, made in Germany

| | | WIDTH | | | | | | | | |
|-----------|------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| THICKNESS | pcs/pallet | 45 mm | 95 mm | 120 mm | 145 mm | 160 mm | 180 mm | 200 mm | 220 mm | 240 mm |
| | 25 mm | 528 * | | | | | | | | |
| 45 mm | | | 121 * | 99 | 77 | 77 | 66 | 55 | 55 | 44 |

Lengths on request * separation products

Construction timber n-vis, spruce/fir, made in Germany

| | | WIDTH | | |
|-----------|------------|-------|-------|--------|
| THICKNESS | pcs/pallet | 63 mm | 89 mm | 140 mm |
| | 38 mm | 306 * | 216 | 144 |

Lengths and other widths on request * separation products

Examples of applications: Interior finishing, drywall construction, installation level, etc.

KVH®-1PLUS® SELECT

PRODUCT DESCRIPTION:

- CE solid structural for visible areas (SELECT)
- spruce/fir C24
- finger-jointed in accordance with DIN EN 15497
- cut, at least heartwood-separated
- dried to approximately 15% ± 3% wood moisture content
- planed
- chamfered edges

PRODUCT BENEFITS:

- dimensionally accurate
- form and dimensional stability
- calculable
- quality-tested
- decorative

SELECT GRADING:

- loose and fallen branches not permitted



Solid structural timber KVH®-1plus® SELECT, spruce/fir, made in Germany 

| | | WIDTH | | | | | | |
|-----------|------------|--------|--------|--------|--------|--------|--------|--------|
| | | 120 mm | 140 mm | 160 mm | 180 mm | 200 mm | 220 mm | 240 mm |
| THICKNESS | pcs/pallet | | | | | | | |
| | 60 mm | 72 | 64 | 56 | 48 | 40 | 40 | 32 |
| | 80 mm | 54 | 48 | 42 | 36 | 30 | 30 | 24 |
| | 100 mm | | 32 | 28 | 24 | 20 | 20 | 16 |

Lengths on request | Warehouse length: 13.00 m

Examples of applications: Wooden frame construction, low-energy and passive houses, environmentally friendly and ecological wooden constructions, visible roof and ceiling constructions, carports, etc.

KVH[®]-1PLUS[®] DOUGLAS FIR SELECT

PRODUCT DESCRIPTION:

- CE solid structural for visible areas (SELECT)
- Douglas fir C24
- finger-jointed in accordance with DIN EN 15497
- cut, heartwood-separated
- dried to approximately 15% ± 3% wood moisture content
- planed
- chamfered edges



PRODUCT BENEFITS:

- dimensionally accurate
- form and dimensional stability
- calculable
- quality-tested
- decorative

SELECT GRADING:

- loose and fallen branches not permitted
- colour differences due to heartwood and sapwood

Solid structural timber KVH[®]-1plus[®] Douglas fir SELECT, made in Germany 

| | | WIDTH | | | | | | | |
|------------|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| pcs/pallet | | 80 mm | 100 mm | 120 mm | 140 mm | 160 mm | 180 mm | 200 mm | 240 mm |
| THICKNESS | 60 mm | 56 * | 44 | 36 | 32 | 28 | 24 | 20 | 16 |
| | 80 mm | 42 * | | 27 | 24 | 21 | 18 | 15 | 12 |
| | 100 mm | | 22 | | | 14 | | 10 | 8 |

Lengths on request | Warehouse lengths: 5.00 m and 13.00 m

* separation products

Application examples: Decorative timber construction, exterior construction, visible roof and ceiling construction, carport, etc.

reliable & competent

WE ARE YOUR PARTNER FOR SPECIALIST RETAILERS

- ✓ high-quality products of consistent quality
- ✓ comprehensive industry knowledge
- ✓ excellent consulting
- ✓ active partnership

KVH®

QLH DUO/TRIO

BSH

CE SAWN TIMBER

SAWN TIMBER

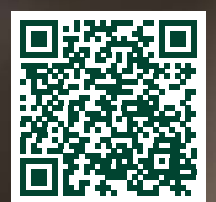
QLH DUO/TRIO

HIGH-QUALITY LAMINATED TIMBER DUO/TRIO

Our high-quality laminated timber consists of 2 or 3 high-quality laminates and is manufactured in accordance with DIN EN 14080. This guarantees an **increased load-bearing capacity** and provides particularly **high dimensional stability**. Exactly the right material for environmentally friendly and innovative timber construction.



**LEARN
MORE ...**



SAWN TIMBER

CE SAWN TIMBER

BSH

QLH DUO/TRIO

KVH®

QLH-DUO-PLUS® N-VIS

PRODUCT DESCRIPTION:

- CE quality laminated timber for non-visible areas (n-vis)
- spruce/fir C24
- manufactured in accordance with DIN EN 14080
- cut, heartwood-separated
- dried to max. 15% wood moisture content
- planed
- chamfered edges
- 60 mm and 80 mm thick as laminated timber GL24h



PRODUCT BENEFITS:

- dimensionally accurate
- form and dimensional stability
- calculable
- quality-tested

QLH-Duo-plus® n-vis, spruce/fir, made in Germany 

| | | WIDTH | | | | | |
|------------|------------|--------|--------|--------|--------|--------|--------|
| pcs/pallet | | 80 mm | 100 mm | 120 mm | 140 mm | 160 mm | 180 mm |
| THICKNESS | 60 mm | 112 * | 88 | 72 | 64 | 56 | 48 |
| | 80 mm | 84 * | 66 | 54 | 48 | 42 | 36 |
| | 100 mm | | 44 | 36 | 32 | 28 | 24 |
| | 120 mm | | | 36 | 32 | 28 | 24 |
| | 140 mm | | | | 24 | 21 | 18 |
| | 160 mm | | | | | 12 | 12 |
| | pcs/pallet | 200 mm | 220 mm | 240 mm | 260 mm | 280 mm | |
| 60 mm | 40 | 40 | 32 | 32 | | | |
| 80 mm | 30 | 30 | 24 | 24 | | | |
| 100 mm | 20 | 20 | 16 | 16 | | | |
| 120 mm | 20 | 20 | 16 | 16 | 16 | | |
| 140 mm | 15 | 15 | 12 | 12 | 12 | | |
| 160 mm | 10 | 8 | 8 | 8 | 8 | | |

Lengths on request | Warehouse lengths: 5.00 m and 13.00 m

* separation products

Examples of applications: Timber frame construction, low-energy and passive houses, environmentally friendly and ecological timber construction, roof and ceiling constructions, multi-storey timber construction, carports, etc.

QLH-TRIO-PLUS® N-VIS

PRODUCT DESCRIPTION:

- CE quality laminated timber for non-visible areas (n-vis)
- spruce/fir C24
- manufactured in accordance with DIN EN 14080
- cut, heartwood-separated
- dried to max. 15% wood moisture content
- planed
- chamfered edges

PRODUCT BENEFITS:

- dimensionally accurate
- form and dimensional stability
- calculable
- quality-tested



QLH-Trio-plus® n-vis, spruce/fir, made in Germany 

| | | WIDTH | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|
| | | 180 mm | 200 mm | 220 mm | 240 mm | 260 mm | 280 mm |
| THICKNESS | 180 mm | 12 | 10 | 10 | 8 | 8 | 8 |
| | 200 mm | | 10 | 10 | 8 | | 8 |
| | 240 mm | | | | 8 | | 8 |

Lengths on request | Warehouse length: 13.00 m

Examples of applications: Timber frame construction, low-energy and passive houses, environmentally friendly and ecological timber constructions, roof and ceiling constructions, multi-storey timber construction, carports, etc.

QLH-DUO-PLUS® VIS

PRODUCT DESCRIPTION:

- CE quality laminated timber for visible areas (vis)
- spruce/fir C24
- manufactured in accordance with DIN EN 14080
- cut, at least heartwood-separated
- dried to max. 15% wood moisture content
- planed
- chamfered edges
- individually shrink-wrapped



PRODUCT BENEFITS:

- dimensionally accurate
- form and dimensional stability
- calculable
- quality-tested

QLH-Duo-plus® vis, spruce/fir, made in Germany 

| | | WIDTH | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| pcs/pallet | | 100 mm | 120 mm | 140 mm | 160 mm | 180 mm | 200 mm | 220 mm | 240 mm |
| THICKNESS | 100 mm | 33 | 27 | 24 | 18 | 18 | 15 | 15 | 12 |
| | 120 mm | | 16 | 14 | 14 | 12 | 10 | 10 | 8 |
| | 140 mm | | | 14 | 14 | 12 | 10 | 10 | 8 |
| | 160 mm | | | | 12 | 12 | 10 | 10 | 8 |

Lengths on request | Warehouse length: 13.00 m

Examples of applications: Timber frame construction, low-energy and passive houses, environmentally friendly and ecological timber constructions, visible roof and ceiling constructions, multi-storey timber construction, carports, etc.

QLH-TRIO-PLUS® VIS

PRODUCT DESCRIPTION:

- CE quality laminated timber for visible areas (vis)
- spruce/fir C24
- manufactured in accordance with DIN EN 14080
- cut, at least heartwood-separated
- dried to max. 15% wood moisture content
- planed
- chamfered edges
- individually shrink-wrapped

PRODUCT BENEFITS:

- absolute dimensional accuracy
- form and dimensional stability
- calculable
- quality-tested



QLH-Trio-plus® vis, spruce/fir, made in Germany 

| | | WIDTH | | | |
|-----------|------------|--------|--------|--------|--------|
| | | 180 mm | 200 mm | 220 mm | 240 mm |
| THICKNESS | pcs/pallet | | | | |
| | 180 mm | 12 | 10 | 10 | 8 |
| | 200 mm | | 10 | | 8 |
| | 240 mm | | | | 8 |

Lengths on request | Warehouse length: 13.00 m

Examples of applications: Timber frame construction, low-energy and passive houses, environmentally friendly and ecological timber constructions, visible roof and ceiling constructions, multi-storey timber construction, carports, etc.

QLH-DUO-PLUS® DOUGLAS FIR SELECT

PRODUCT DESCRIPTION:

- CE quality laminated timber for visible areas (SELECT)
- Douglas fir C24
- manufactured in accordance with DIN EN 14080
- cut, heartwood-separated
- dried to max. 15% wood moisture content
- planed
- chamfered edges



PRODUCT BENEFITS:

- high durability
- high strength
- dimensionally accurate
- form and dimensional stability
- calculable
- quality-tested
- high natural resistance to fungi or insect infestation

QLH-Duo-plus® Douglas fir SELECT, made in Germany 

| | | WIDTH | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|--------|
| | | 120 mm | 140 mm | 160 mm | 180 mm | 200 mm | 240 mm |
| THICKNESS | 120 mm | 16 | | 14 | 12 | 10 | 8 |
| | 140 mm | | 16 | | | 10 | 8 |
| | 160 mm | | | 12 | | 10 | 8 |

Lengths on request | Warehouse lengths: 5.00 m and 13.00 m

Application examples: Decorative timber construction, exterior construction, visible roof and ceiling construction, carport, etc.

QLH-TRIO-PLUS® DOUGLAS FIR SELECT

PRODUCT DESCRIPTION:

- CE quality laminated timber for visible areas (SELECT)
- Douglas fir C24
- manufactured in accordance with DIN EN 14080
- cut, heartwood-separated
- dried to max. 15% wood moisture content
- planed
- chamfered edges

PRODUCT BENEFITS:

- high durability
- high strength
- dimensionally accurate
- form and dimensional stability
- calculable
- quality-tested
- high natural resistance to fungi or insect infestation



QLH-Trio-plus® Douglas fir SELECT, made in Germany 

| | | WIDTH | |
|-----------|------------|--------|--------|
| THICKNESS | pcs/pallet | 180 mm | 200 mm |
| | 180 mm | 12 | 10 |
| | 200 mm | | 10 |

Lengths on request | Warehouse lengths: 5.00 m and 13.00 m

Application examples: Decorative timber construction, exterior construction, visible roof and ceiling construction, carport, etc.

BSH

GLUED LAMINATED TIMBER

Components made of glued laminated timber (glulam or glulam timber) are statically **load-bearing, high-quality construction elements** made of wood. As a result of grading the strength of the base material and the consistency created by layered construction, it is well-balanced and has greater load-bearing capacities than standard timber.





KVH®

QLH DUO/TRIO

BSH

CE SAWN TIMBER

SAWN TIMBER

**LEARN
MORE ...**



BSH-3PLUS® N-VIS

PRODUCT DESCRIPTION:

- CE quality laminated timber for non-visible areas (n-vis)
- spruce/fir GL24h
- other strength classes on request
- manufactured in accordance with DIN EN 14080
- cut, heartwood-separated
- dried to max. 15% wood moisture content
- planed
- chamfered edges

PRODUCT BENEFITS:

- dimensionally accurate
- form and dimensional stability
- calculable
- quality-tested



BSH-3plus® n-vis GL24h, spruce/fir, made in Germany 

| | | WIDTH | | | | | | | | | | | |
|-----------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 60 mm * | 80 mm * | 100 mm. | 120 mm | 140 mm | 160 mm | 180 mm | 200 mm | 220 mm | 240 mm | 260 mm | 280 mm |
| THICKNESS | 100 mm. | | | x | | | | | | | | | |
| | 120 mm | x | x | x | x | | | | | | | | |
| | 160 mm | x | x | x | x | x | x | | | | | | |
| | 200 mm | x | x | x | x | x | x | x | x | | | | |
| | 240 mm | x | x | x | x | x | x | x | x | x | x | | |
| | 280 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| | 320 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| | 360 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| | 400 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| | 440 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| | 480 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| | 520 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| | 560 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| 600 mm | x | x | x | x | x | x | x | x | x | x | x | x | |

Warehouse lengths on request | max. length: 16.00 m

* separation products

Examples of applications: Timber frame construction, low-energy and passive houses, environmentally friendly and ecological timber constructions, visible roof and ceiling constructions, multi-storey timber construction, carports, etc.

BSH-3PLUS® VIS

PRODUCT DESCRIPTION:

- CE quality laminated timber for visible areas (vis)
- spruce/fir GL24h
- other strength classes on request
- manufactured in accordance with DIN EN 14080
- cut, heartwood-separated
- dried to max. 15% wood moisture content
- planed
- chamfered edges

PRODUCT BENEFITS:

- dimensionally accurate
- form and dimensional stability
- calculable
- quality-tested



KVH®

QLH DUO/TRIO

BSH

CE SAWN TIMBER

SAWN TIMBER

BSH-3plus® vis GL24h, spruce/fir, made in Germany

| | WIDTH | | | | | | | | | | | |
|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 60 mm * | 80 mm * | 100 mm. | 120 mm | 140 mm | 160 mm | 180 mm | 200 mm | 220 mm | 240 mm | 260 mm | 280 mm |
| 100 mm. | | | x | | | | | | | | | |
| 120 mm | x | x | x | x | | | | | | | | |
| 160 mm | x | x | x | x | x | x | | | | | | |
| 200 mm | x | x | x | x | x | x | x | x | | | | |
| 240 mm | x | x | x | x | x | x | x | x | x | x | | |
| 280 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| 320 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| 360 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| 400 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| 440 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| 480 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| 520 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| 560 mm | x | x | x | x | x | x | x | x | x | x | x | x |
| 600 mm | x | x | x | x | x | x | x | x | x | x | x | x |

Warehouse lengths on request | max. length: 16.00 m

* separation products

Examples of applications: Timber frame construction, low-energy and passive houses, environmentally friendly and ecological timber constructions, visible roof and ceiling constructions, multi-storey timber construction, carports, etc.

LIST BY DIMENSION MADE OF BSH-3PLUS®

We are also happy to produce BSH glued laminated timber to your specifications according to the list without length waste. Manufactured, marked and delivered by us – available in many lengths, packaging and dimensions for easy further processing. Please get in touch with us! We'll be happy to advise you.

PRODUCT DESCRIPTION:

- CE quality laminated timber for non-visible areas (n-vis)
- spruce/fir GL24h
- other strength classes on request
- manufactured in accordance with DIN EN 14080
- cut, heartwood-separated
- dried to max. 15% wood moisture content
- planed
- chamfered edges

- shortest length: 4.00 m
- max. length: 16.00 m
- max. thickness: 600 mm
- max. width: 280 mm
- film-wrapped

PRODUCT BENEFITS:

- dimensionally accurate
- form and dimensional stability
- calculable
- quality-tested

Examples of applications: Timber frame construction, low-energy and passive houses, environmentally friendly and ecological timber constructions, visible roof and ceiling constructions, multi-storey timber construction, carports, etc.



BSH-3PLUS® PROFILES

On request, we can manufacture BSH elements with profiles for you. The ceiling elements are available with different profile variants, which we are happy to adapt to your individual requirements, for quick and easy installation on site. Our team will be happy to advise you!

PRODUCT DESCRIPTION:

- CE quality laminated timber for visible areas (vis) or non-visible areas (n-vis)
- spruce/fir GL24h
- other strength classes on request
- manufactured in accordance with DIN EN 14080
- cut, heartwood-separated
- dried to max. 15% wood moisture content
- planed
- chamfered edges

PRODUCT BENEFITS:

- dimensionally accurate
- form and dimensional stability
- calculable
- quality-tested

OTHER VERSIONS:

- all profiles also available as KVH and DUO/TRIO versions
- dimensions on request

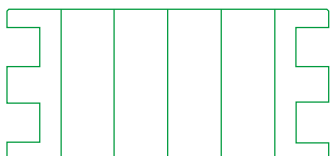


BSH-3plus® with groove, made in Germany



- max. covering dimension: 600 mm
- 60 mm or thicker
- max. thickness: 120 mm
- shortest length: 4.00 m
- max. length: 16.00 m

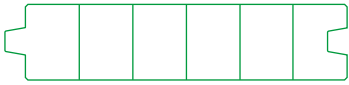
BSH-3plus® with double groove, made in Germany




- max. covering dimension: 600 mm
- from 120 mm thickness
- max. thickness: 300 mm
- shortest length: 4.00 m
- max. length: 16.00 m

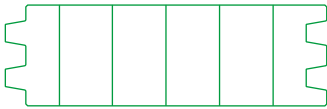


BSH-3plus® with tongue and groove (Chalet), made in Germany 



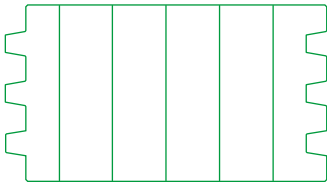
- max. covering dimension: 600 mm
- 60 mm thickness
- shortest length: 4.00 m
- max. length: 16.00 m

BSH-3plus® with double tongue and groove (Chalet), made in Germany 



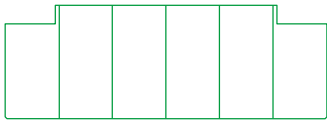
- max. covering dimension: 600 mm
- 80 mm or thicker
- max. thickness: 120 mm
- shortest length: 4.00 m
- max. length: 16.00 m

BSH-3plus® with triple groove and tongue (Chalet), made in Germany 



- max. covering dimension: 600 mm
- from 140 mm thickness
- max. thickness: 300 mm
- shortest length: 4.00 m
- max. length: 16.00 m

BSH-3plus® with rebate, made in Germany 



- possible for all BSH elements
- top rebate
- variable rebate dimension with a thickness of 20 to 40 mm and a depth of up to 70 mm

Examples of applications: Timber frame construction, low-energy and passive houses, environmentally friendly and ecological timber constructions, visible roof and ceiling constructions, multi-storey timber construction, carports, etc.

Everything from a single source!

KVH®

QLH DUO/TRIO

BSH

OUR rettenmeier®

PRODUCT RANGE

- ✓ sawn timber, planed goods, packaging – **INDUSTRIAL WOOD**
- ✓ timber specialist – **ZUNFTHOLZ**
- ✓ timber retail – **DO IT WOOD**
- ✓ garden wood – **OUTDOOR WOOD**
- ✓ fuels – **ENERGY WOOD**

**LEARN
MORE ...**



CE SAWN TIMBER

SAWN TIMBER

CE SAWN TIMBER

Our CE products meet all requirements with regard to **load-bearing capacity** and **labelling**.





KVH®

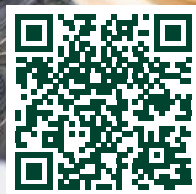
QLH DUO/TRIO

BSH

CE SAWN TIMBER

SAWN TIMBER

LEARN
MORE ...



ROOF SLATS

CE/S10

PRODUCT DESCRIPTION:

- sawn timber spruce/fir
- certified according to DIN EN 14081
- graded according to DIN 4074 S10
- dried to approximately 18% ± 2% wood moisture content
- finely sawed
- lengths 50 : 50 cm, ascending

- ✓ cost-effective
- ✓ standard quality
- ✓ wide range of applications

Examples of applications: Slats for roofing, substructure timbers for exterior facades, wall and ceiling cladding, battens, counter slats, etc.

| | Dimension (mm) | Quality | pcs/pallet | Lengths (m) | fresh raw | freshly pressure-treated | dry raw |
|---|----------------|---------|------------|-------------|-----------|--------------------------|---------|
| CE slats, spruce/fir, S10, DIN 4074, unplanned, fresh or dry, made in Germany  | | | | | | | |
|  | 31 x 52 | S10 | 280 | 4.00 - 5.00 | x | x | |
| | 41 x 62 | S10 | 216 | 4.00 - 5.00 | x | x | |
| | 30 x 50 | S10 | 280 | 4.00 - 5.00 | | | x |
| | 40 x 60 | S10 | 216 | 4.00 - 5.00 | | | x |

Other lengths on request

CE ROOF FORMWORK

DRY

KVH®

QLH DUO/TRIO

BSH

CE SAWN TIMBER

SAWN TIMBER

PRODUCT DESCRIPTION:

- sawn timber, spruce/fir C24M TS DIN EN 14081
- machine grading according to strength
- dried to approximately 18% ± 2% wood moisture content
- finely sawed
- raw
- dry strength durable



- ✓ calculable as load-bearing component
- ✓ quality-tested

Application examples: Especially as roof lining for load-bearing purposes on the roof

| Dimension (mm) | Quality | pcs/pallet | Lengths (m) | fresh raw | dry pressure-treated | dry raw |
|----------------|---------|------------|-------------|-----------|----------------------|---------|
|----------------|---------|------------|-------------|-----------|----------------------|---------|

CE roof formwork, spruce/fir, C24M TS, made in Germany



| | | | | | | |
|----------|------|-----|-------------|--|--|---|
| 24 x 160 | C24M | 273 | 4.00 - 5.00 | | | x |
|----------|------|-----|-------------|--|--|---|

T&G TIMBER MANUFACTURED FROM RAW MATERIAL C24M TS

✓ quality-tested

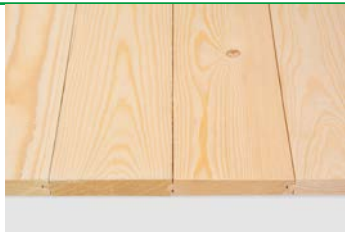
PRODUCT DESCRIPTION:

- manufactured from sawn timber spruce/fir C24M TS DIN EN 14081
- dried to approximately 18% ± 2% wood moisture content
- finely sawed
- raw
- dry strength durable

Examples of applications: Attic, outbuildings, subfloors, garden house, substructure for wall and ceiling cladding, etc.

| | Dimension (mm) | Quality | pcs/pallet | Lengths (m) | fresh raw | dry pressure-treated | dry raw |
|--|----------------|---------|------------|-------------|-----------|----------------------|---------|
|--|----------------|---------|------------|-------------|-----------|----------------------|---------|

T&G timber with taper groove from raw materials C24M TS, spruce/fir, made in Germany 



| | | | | | | | |
|----------|--------------|-----|-------------|--|--|--|---|
| 24 x 136 | made of C24M | 160 | 4.00 - 5.00 | | | | x |
|----------|--------------|-----|-------------|--|--|--|---|



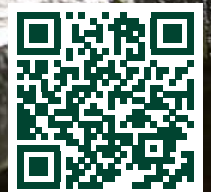
*Wood, the raw material
of the future!*

SUSTAINABILITY:

NOT JUST A BUZZWORD

- ✓ naturally renewable raw material
- ✓ our daily commitment to climate protection
- ✓ sustainable forestry

**LEARN
MORE ...**



SAWN TIMBER

We offer all common **sawn timber products in a wide range of dimensions.** Both fresh raw, pressure-treated or course technically dried! Also Douglas fir terrace decking - everything can be combined with our construction products! This means that you receive all of your important timber trade products on one truck – from a single source!





**LEARN
MORE ...**



SAWN TIMBER

CE SAWN TIMBER

BSH

QLH DUO/TRIO

KVH®



SLATS/ FRAMES

- ✓ cost-effective
- ✓ standard quality
- ✓ wide range of applications

PRODUCT DESCRIPTION:

- sawn timber spruce/fir
- finely sawed
- raw
- lengths 50 : 50 cm, ascending

Examples of applications: Slats for roofing, substructure timbers for exterior facades, wall and ceiling cladding, battens, counter slats, etc.

| | Dimension (mm) | Grade | pcs/pallet | Lengths (m) | fresh raw | freshly pressure-treated | dry raw |
|---|----------------|-------|------------|-------------|-----------|--------------------------|---------|
| Slats/frames, spruce/fir, unplaned, made in Germany  | | | | | | | |
|  | 24 x 48 | I-II | 360 | 3.00 - 5.00 | x | x | x |
| | 24 x 70 | I-II | 270 | 3.00 - 5.00 | | | x |
| | 28 x 48 | I-II | 320 | 3.00 - 5.00 | x | x | x |
| | 30 x 50 | I-II | 280 | 3.00 - 5.00 | x | x | x |
| | 38 x 58 | I-II | 216 | 3.00 - 5.00 | x | x | x |
| | 40 x 60 | I-II | 216 | 3.00 - 5.00 | x | x | x |
| | 58 x 58 | I-II | 144 | 3.00 - 5.00 | x | x | x |
| | 58 x 78 | I-II | 98 | 3.00 - 5.00 | x | x | x |

Other lengths on request

T&G TIMBER

KVH®

QLH DUO/TRIO

BSH

CE SAWN TIMBER


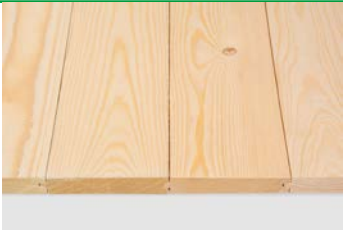

SAWN TIMBER

PRODUCT DESCRIPTION:

- planed goods spruce/fir
- according to DIN 4072
- technically dried to approximately 18% ± 2% wood moisture content
- lengths 50 : 50 cm, ascending

- ✓ improves the interior climate
- ✓ promotes a sense of comfort
- ✓ breathable
- ✓ healthy
- ✓ low-maintenance

Examples of applications: Attic, outbuildings, subfloors, garden house, substructure for wall and ceiling cladding, etc.

| | Dimension (mm) | Grade | pcs/pallet | Lengths (m) | fresh raw | dry pressure-treated | dry raw |
|---|----------------|-------|------------|-------------|-----------|----------------------|---------|
| T&G timber with taper groove, spruce/fir, planed technically dried, made in Germany  | | | | | | | |
|  | 21 x 116 | II-IV | 135 189 | 4.00 - 5.00 | | x | x |
| | 24 x 136 | II-IV | 120 160 | 4.00 - 5.00 | | x | x |
| | 24 x 146 | II-IV | 105 140 | 4.00 - 5.00 | | x | x |
| | 24 x 165 | II-IV | 105 140 | 4.00 - 5.00 | | x | x |
|  | 28 x 136 | II-IV | 104 144 | 4.00 - 5.00 | | x | x |
| | 28 x 146 | II-IV | 91 126 | 4.00 - 5.00 | | x | x |
| | 28 x 165 | II-IV | 91 126 | 4.00 - 5.00 | | x | x |
| | 30 x 165 | II-IV | 112 | 4.00 - 5.00 | | x | x |



BOARD PRODUCTS

- ✓ inexpensive
- ✓ wide range of applications


PRODUCT DESCRIPTION:

- sawn timber spruce/fir
- finely sawed
- raw
- lengths 50 : 50 cm, ascending

Examples of applications: Shell construction, formwork purposes, blind formwork, concrete formwork, sheet pile walls, staircase formwork, roof formwork, wooden cladding, etc.

| | Dimension (mm) | Grade | pcs/pallet | Lengths (m) | fresh raw | freshly pressure-treated | dry raw |
|---|----------------|-------|------------|-------------|-----------|--------------------------|---------|
| Boards/formwork, spruce/fir, unplaned, technically dried, made in Germany  | | | | | | | |
|  | 23 x 80 | II-IV | 588 | 3.00 - 5.00 | | | x |
| | 23 x 100 | II-IV | 462 | 3.00 - 5.00 | | | x |
| | 23 x 120 | II-IV | 378 | 3.00 - 5.00 | | | x |
| | 23 x 140 | II-IV | 336 | 3.00 - 5.00 | | | x |
| | 23 x 160 | II-IV | 294 | 3.00 - 5.00 | | | x |
| | 23 x 180 | II-IV | 252 | 3.00 - 5.00 | | | x |
| | 23 x 200 | II-IV | 210 | 3.00 - 5.00 | | | x |

Boards/formwork, spruce/fir, unplaned, fresh, made in Germany

| | | | | | | | |
|---|----------|-------|-----|-------------|---|---|--|
|  | 24 x 80 | II-IV | 420 | 3.00 - 5.00 | x | x | |
| | 24 x 100 | II-IV | 330 | 3.00 - 5.00 | x | x | |
| | 24 x 120 | II-IV | 270 | 3.00 - 5.00 | x | x | |
| | 24 x 140 | II-IV | 240 | 3.00 - 5.00 | x | x | |
| | 24 x 160 | II-IV | 210 | 3.00 - 5.00 | x | x | |
| | 24 x 180 | II-IV | 180 | 3.00 - 5.00 | x | x | |
| | 24 x 200 | II-IV | 150 | 3.00 - 5.00 | x | x | |

WEDGE PLANKS/ FACIA BOARDS

KVH®



- ✓ special profile
- ✓ neatly prefabricated

QLH DUO/TRIO

PRODUCT DESCRIPTION:

- sawn timber spruce/fir
- finely sawed
- technically dried to approximately 18% ± 2% wood moisture content
- lengths 50 : 50 cm, ascending

Examples of applications: Roof construction, attachment of gutters, fascia boards

| | Dimension (mm) | Grade | pcs/pallet | Lengths (m) | fresh raw | dry pressure-treated | dry raw |
|---|----------------|-------|------------|-------------|-----------|----------------------|---------|
| Wedge planks/facia boards, spruce/fir, unplanned, made in Germany  | | | | | | | |
|  | 50/0 x 150 | I-III | 63 | 4.00 - 5.00 | | x | x |
| | 50/20 x 140 | I-III | 49 | 4.00 - 5.00 | | x | x |
| | 50/30 x 160 | I-III | 42 | 4.00 - 5.00 | | x | x |
| | 70/0 x 140 | I-III | 49 | 4.00 - 5.00 | | x | x |
| | 80/0 x 160 | I-III | 42 | 4.00 - 5.00 | | x | x |

BSH

CE SAWN TIMBER

SAWN TIMBER

TERRACE DECKING

With our durable and high-quality **terrace decking made of Douglas fir** in various designs, many creative design ideas can be implemented outdoors.

LEARN
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DOUGLAS FIR DECKING TERRACES

- ✓ durable and long-lasting
- ✓ robust and stable
- ✓ slip resistant

PRODUCT DESCRIPTION:

- Douglas fir
- various profile variants
- technically dried

Examples of applications: Terraces, balconies, paths, walkways, promenades, horticulture and landscaping, etc.

| | Dimension (mm) | Quality | pcs/pallet | Lengths (m) |
|--|----------------|---------|------------|-------------|
|--|----------------|---------|------------|-------------|

Terrace decking, Douglas fir, coarsely grooved on both sides, planed on four sides, made in Germany



| | | | |
|----------|--------|-----|----------------|
| 28 x 145 | SELECT | 112 | 3.00/4.00/5.00 |
| 45 x 145 | SELECT | 56 | 3.00/4.00/5.00 |

Terrace decking, Douglas fir, partially fluted on both sides, planed on four sides, made in Germany



| | | | |
|----------|--------|-----|----------------|
| 28 x 145 | SELECT | 112 | 3.00/4.00/5.00 |
|----------|--------|-----|----------------|

Substructure, Douglas fir, dry, planed, made in Germany



| | | | |
|---------|-------|-----|----------------|
| 45 x 70 | I-III | 165 | 3.00/4.00/5.00 |
| 70 x 70 | I-III | 105 | 3.00/4.00/5.00 |
| 90 x 90 | I-III | 96 | 3.00/4.00/5.00 |

Processing: Avoid direct ground contact, lay on substructure, observe structural wood protection, water drainage via incline, use stainless steel screws

OUR SITES

RAMSTEIN-MIESENBACH GERMANY



👤 ≈ 225 EMPLOYEES
400,000 m² AREA
650,000 m³ CAPACITY
+ 120,000 t PELLETS
WOOD SPECIES: SPRUCE, PINE,
DOUGLAS FIR, LARCH

BURGBERNHEIM GERMANY

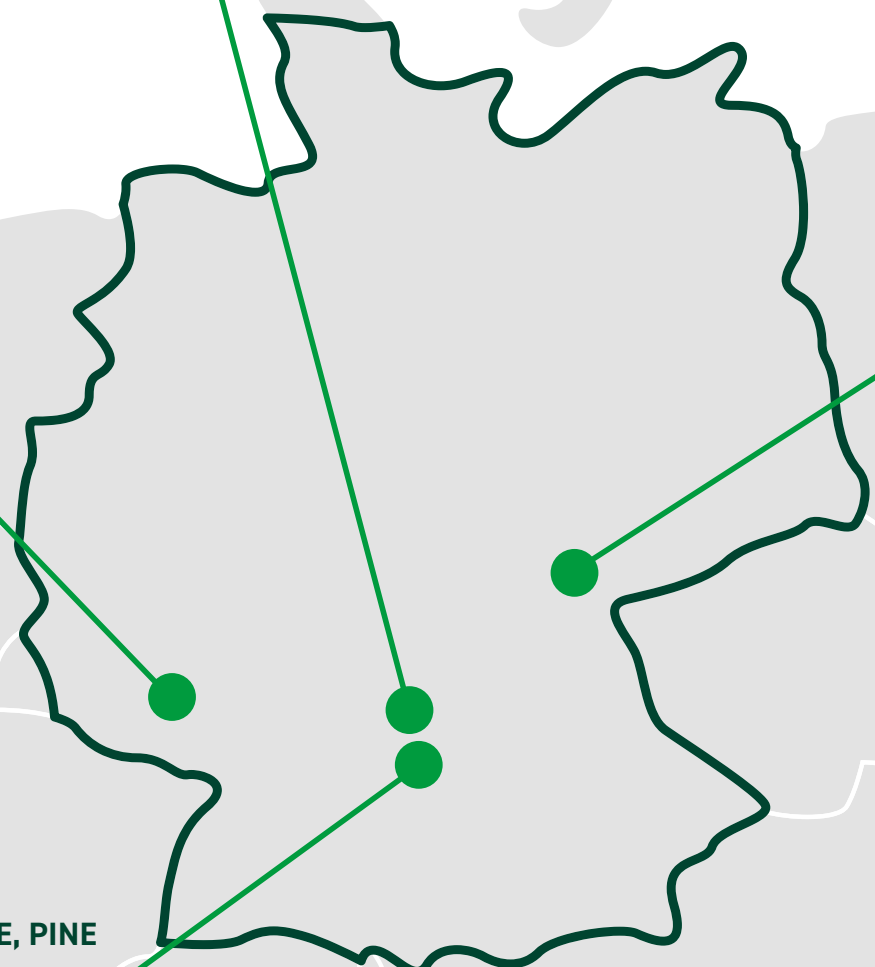


👤 ≈ 55 EMPLOYEES
79,000 m² AREA
55,000 m³ CAPACITY
WOOD SPECIES: SPRUCE, PINE

WILBURGSTETTEN GERMANY



👤 ≈ 490 EMPLOYEES
620,000 m² AREA
800,000 m³ CAPACITY
WOOD SPECIES: SPRUCE, PINE



HIRSCHBERG GERMANY



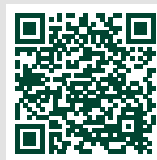
👤 ≈ 290 EMPLOYEES
420,000 m² AREA
750,000 m³ CAPACITY
WOOD SPECIES: SPRUCE

INČUKALNS LATVIA



👤 ≈ 260 EMPLOYEES
327,000 m² AREA
800,000 m³ CAPACITY
WOOD SPECIES: SPRUCE, PINE

LIPTOVSKÝ HRÁDOK SLOVAKIA



👤 ≈ 280 EMPLOYEES
190,000 m² AREA
400,000 m³ CAPACITY
+ 65,000 t PELLETS
WOOD SPECIES: SPRUCE



PRESERVING OUR FORESTS FOR FUTURE GENERATIONS

The continued existence of our domestic forests is of paramount importance to us. Not only do they provide us with raw material, but they also serve as a habitat and recreational area for plants and animals. **Consequently, it is essential to practice sustainable forestry and safeguard the vitality and vigor of the forest ecosystem.**

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SUSTAINABLE SUPPLIER RELATIONSHIPS

rettenmeier® **FOREST SERVICES** is your full-service provider in forestry – that is, we take care of **the harvesting, marketing, removal and settlement** of your wood, regardless of whether it is for the state or municipal forest, forest associations or microforest owners.



**LEARN
MORE ...**





ZERO WASTE APPROACH

*→ 100% added value
+ 100% appreciation*

In keeping with our dedication to **rettenmeier®'s zero waste policy**, we make sure to use all by-products of sawing and bark in a sustainable manner. This guarantees that our wood resources are used to their fullest extent and are 100% utilised.





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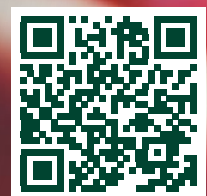




ENGAGING IN CLIMATE CHANGE MITIGATION

1. The timber we use as a raw material absorbs the detrimental CO₂ from the atmosphere.
2. We transform the wood sustainably into CO₂ holders and thereby prolong the retention of the contained carbon. For instance, constructing a low-energy house of timber can reduce emissions by up to 80 tonnes of carbon dioxide.
3. Our rettenmeier® PREMIUM OF WOOD is a great alternative to materials such as steel or concrete, which produce large amounts of CO₂ during their manufacture. It is a more sustainable option that can help reduce emissions and conserve energy.

LEARN
MORE ...





WOOD, THE RAW MATERIAL OF THE FUTURE!

We see it as our responsibility to make our contribution to limiting global warming. As a supporter of the "Holz rettet Klima" ("Wood saves the climate") initiative, we want to provide information on how we as the timber industry can contribute to this together with each and every one of you and make sensible use of the valuable and wonderful raw material wood.

WE REDUCE EMISSIONS

By participating in the timber industry's climate protection initiative, we have committed ourselves to reducing our emissions sustainably. We regularly draw up a comprehensive CO2 balance in accordance with the GHG Protocol – this enables us to design and effectively implement targeted long-term reduction measures.





L



VOLVO

FH

A

AN RS 738



reitermeier
PREMIUM OF WOOD

WWW.REITERMEIER.COM

rettenmeier® SERVICE - WE PROVIDE A RELIABLE LOGISTICS SOLUTION FOR ALL YOUR NEEDS

We use our **own fleet of vehicles** and a **wide-ranging national and international transport network** to deliver our products on a fast, flexible and efficient way.

LEARN
MORE ...







A GREENER WAY TO MOVE AROUND

The railway infrastructure guarantees that our sites have dependable and efficient connections. This not only **decreases our carbon footprint** by taking cargo off the roads, but it also enhances the effectiveness of our freight transportation.

CATALOGUE OF REQUIREMENTS

rettenmeier® is your professional partner for quality products in the fields of specialist trade, wood construction and roofing. The benefits for our market partners range from comprehensive advice and information on all product-related issues about creating ideal solutions through to the professional follow-up by our after-sales service.

Requirements for KVH®-1plus®

| | REQUIREMENTS FOR SELECT | REQUIREMENTS FOR N-VIS | COMMENTS |
|---|--|--|---|
| SORTING CLASS IN ACCORDANCE WITH DIN 4074-1 | Minimum S10 TS or S10K TS; C24 or C24M in accordance with DIN EN 338 | At least S10 TS or S10K TS; C24 or C24M in accordance with DIN EN 338 | The code K stands for a board or plank sorted as squared timber |
| WOOD MOISTURE CONTENT | approx.15% ± 3% | approx.15% ± 3% | The specified wood moisture content is a prerequisite for a far-reaching waiving of preventive wood protection |
| CUT TYPE | Heartwood-separated | Heartwood-separated | Since the pith does not necessarily run through the centre of a tree, "heartwood-separated" is defined as follows: for a tree with an ideal growth form, the pith would be cut through in two-strand cutting. |
| WANE | Not permitted | ≤ 10% of the side with the smaller cross-section | Wane measured diagonally |
| DIMENSIONAL ACCURACY | DIN EN 336 dimensional accuracy class 2 b ≤ 100 mm ± 1 mm, b ≥ 100 mm ± 1.5 mm | DIN EN 336 dimensional accuracy class 2 b ≤ 100 mm ± 1 mm, b ≥ 100 mm ± 1.5 mm | The dimensional accuracy for the length dimension must be agreed between the Purchaser and the supplier. |
| BRANCH CONDITION | DIN 4074-1 sorting class S 10 | DIN 4074-1 sorting class S 10 | |
| KNOTTINESS | S10: A ≤ 2/5 not over 70 mm | In the event of automatic sorting, the branch sizes are not taken into account; otherwise, the following applies: S10: A ≤ 2/5 | Knottiness A is determined according to DIN 4074-1 |
| BARK INCLUSION | Not permitted | DIN 4074-1 | |
| CRACKS, RADIAL SHRINKAGE CRACKS (DRY CRACKS) | Crack width of b ≤ 3% of the respective cross-section width | DIN 4074-1 | With SELECT, increased requirements compared with sorting class S10 in accordance with DIN 4074-1 |
| RESIN POCKETS | Width b ≤ 5 mm | - | Additional criterion |
| DISCOLOURATIONS | Not permitted | DIN 4074-1 | With SELECT, increased requirements compared with sorting class S10 in accordance with DIN 4074-1 |
| INSECT INFESTATION | Not permitted | DIN 4074-1 | With SELECT, increased requirements compared with sorting class S10 in accordance with DIN 4074-1 |
| DISTORTION | - | - | According to DIN EN 4074-1 |
| LONGITUDINAL CURVATURE | With heart-separated cut ≤ 8 mm/2 m | With heart-separated cut ≤ 8 mm/2 m | |
| PROCESSING OF THE ENDS | Capped at right angles | Capped at right angles | |
| SURFACE QUALITY | Planed and chamfered | Equalised and chamfered | |
| FINGER JOINT | DIN EN 15497 | | |

Requirements for QLH-Duo-plus®/QLH-Trio-plus®

| | REQUIREMENTS FOR VIS | REQUIREMENTS FOR N-VIS | COMMENTS |
|--|--|--|--|
| TECHNICAL RULES | DIN EN 14080 | DIN EN 14080 | |
| SORTING CLASS IN ACCORDANCE WITH DIN 4074-1 | At least S10K TS, C24 in accordance with DIN EN 338 | At least S10K TS C24 in accordance with DIN EN 338 | |
| WOOD MOISTURE CONTENT | Max. approx. 15% | Max. approx. 15% | Prerequisite for the bonding |
| DIMENSIONAL ACCURACY | DIN EN 336 dimensional accuracy class 2 b < 100 mm ± 1 mm, b ≥ 100 mm ± 1.5 mm | DIN EN 336 dimensional accuracy class 2 b < 100 mm ± 1 mm, b ≥ 100 mm ± 1.5 mm | The dimension tolerances for lengths must be agreed between the purchaser and the supplier. |
| DISTORTION | ≤ 4 mm/2 m | ≤ 4 mm/2 m | For comparison: DIN 4074-1: S10 ≤ 8 mm/2 m |
| LONGITUDINAL CURVATURE | ≤ 4 mm/2 m | ≤ 4 mm/2 m | For comparison: DIN 4074-1: S10 ≤ 8 mm/2 m |
| SURFACE QUALITY | Planed and chamfered | Equalised and chamfered | The right sides (sides close to the core) must be facing outwards. |
| PROCESSING OF THE ENDS | Capped on at least 1 side | Capped on at least 1 side | |
| BONDING THE TIMBER | DIN EN 14080 | DIN EN 14080 | Adhesive type I in accordance with DIN EN 301, characteristics of use in accordance with DIN 68141 |

STRUCTURAL PHYSICAL CHARACTERISTICS FOR KVH®-1PLUS® AND QLH-DUO-PLUS®/QLH-TRIO-PLUS®

Swelling and shrinkage dimensions

| | |
|--|-------|
| DIMENSIONAL CHANGES/DIFFERENTIAL SWELLING AND SHRINKAGE GIVEN A CHANGE IN THE WOOD MOISTURE CONTENT, PER 1% | 0.24% |
| SWELLING AND SHRINKAGE ISOTROPY RATIO TANGENTIAL TO RADIAL | 2 |

Characteristics and key indicators

| | |
|---|---------------------------|
| BULK DENSITY ρ (AT APPROX. 15% WOOD MOISTURE CONTENT) ON AVERAGE | 450-480 kg/m ³ |
| WATER VAPOUR DIFFUSION RESISTANCE COEFFICIENT μ (DIN 4108) | 40 |
| THERMAL CONDUCTIVITY λ_R (DIN 4108) | 0.13 W/(m*K) |
| DIMENSIONAL AND FORM STABILITY | Good |
| BUILDING MATERIAL CLASS (DIN EN 13501-1) | D-s2, d0 |
| BUILDING MATERIAL CLASS (DIN 4102) | B2 (normally flammable) |
| BURNING RATE ON AVERAGE | 0.65-0.70 mm/min. |

LABELLING

KVH®-1plus® and QLH-Duo-plus®/QLH-Trio-plus®

| PRODUCT | PRODUCT RULE | LABELLING |
|---------------------------------------|---------------------------------|-----------|
| NOT FINGER-JOINTED KVH®-1PLUS® | DIN EN 14081-1 with DIN 20000-5 | CE mark |
| FINGER-JOINTED KVH®-1PLUS® | DIN EN 15497 with DIN 20000-7 | CE mark |
| QLH-DUO-PLUS®/QLH-TRIO-PLUS® | DIN EN 14080 with DIN 20000-3 | CE mark |

USE CLASSES OF WOOD AND WOOD PRODUCTS

The service life of wooden components used outdoors can be significantly increased if the issue of wood preservation is considered at the design stage. Otherwise, a component's useful life may be greatly affected by local conditions (high level of ambient moisture, permanent or occasional contact with water, lack of rear ventilation, etc.). On the other hand, favourable installation conditions can also considerably increase service life by, for example, preventing contact with soil or providing cover.

Use classes in accordance with DIN EN 335-1

| UC | WMC/EXPOSURE | DESCRIPTION | INSECTS | FUNGUS | WOOD ROT | WOOD PESTS IN THE SEA | LEACHING | DURABILITY CLASS REQUIRED |
|------------|---|--|---------|--------|----------|-----------------------|----------|---------------------------|
| | Dry (constantly < approx. 20%) mean relative air humidity up to approx. 85% | Wood or wood product under roof, not exposed to weathering or moisture. Insect hazard can be excluded in accordance with 5.2.1. | No | No | No | No | No | 1 - 5 |
| 1 | Dry (constantly < approx. 20%) mean relative air humidity up to approx. 85% | Wood or wood product under roof, not exposed to weathering or moisture. | Yes | No | No | No | No | 1 - 4 |
| 2 | Occasionally moist > approx. 20% mean relative air humidity > approx. 85% or temporary humidification due to condensate | Wood or wood product under roof, not exposed to weathering, a high ambient humidity can lead to occasional, but not permanent moistening. | Yes | Yes | No | No | No | 1 - 3 |
| 3.1 | Occasionally moist > approx. 20% | Wood or wood product not under roof, with weathering, but with no permanent contact with the ground or water. Accumulation of water in the wood not to be expected, even within spatially limited areas. | Yes | Yes | No | No | Yes | 1 - 3 |
| 3.2 | Frequently moist > approx. 20% | Wood or wood product not under roof, with weathering, but with no constant contact with ground or water, accumulation of water in the wood to be expected, including in spatially limited areas. | Yes | Yes | No | No | Yes | 1; 2 |

Note: Glued products from the KVH / glued laminated timber and glulam sectors are not suitable for the service classes 1 and 2 in accordance with DIN EN 1995-1-1.

STRUCTURAL TIMBER PROTECTION

Besides the individual species of wood selected and its natural durability, the service life of timber can be significantly influenced by structural timber protection.

If wood is exposed to high levels of moisture for lengthy periods, it will be damaged by fungal decay. This can be prevented by the proper planning of structural measures to protect the wood at the execution stage.

Where possible, upright, load-bearing timber components should never come into direct contact with the ground in external areas. To protect them from splashing, it is advisable to maintain a minimum gap of approx. 15 cm (mounting on supports).

Horizontal wooden structures should likewise avoid any direct contact with the ground and be kept a sufficient distance from the subsoil. To prevent water from

collecting, horizontal areas should always have a slight gradient.

MEASURES TO EXTEND THE DURABILITY AND SERVICE LIFE OF WOODEN STRUCTURES

- construct timber components so that water can always run off
- prevent waterlogging
- ensure adequate ventilation
- avoid contact with the ground
- use stainless steel screws that will not rust
- clean and maintain timber components at regular intervals
- manual protection is possible, e.g. by dipping, painting or spraying

CE MARK

By applying the CE mark, a manufacturer confirms that the product on sale complies with the applicable, product-specific European directives. The CE mark is not a quality seal, but merely indicates compliance with the minimum statutory requirements. If a four-digit number is applied after the CE symbol, it refers to the involvement of a Notified Body in the conformity assessment procedure. The CE mark was developed to provide the end consumer with an indication of safe products (on the basis of compliance with the "fundamental (safety) requirements") within the European Economic Area. If one or several EU

directives are fulfilled with a product, the product must bear the CE mark. Other markings or quality seals are not permissible next to the CE mark. The CE mark is a prerequisite for placing any products on the market for the first time for which a CE mark is required in accordance with EU directives, i.e. in all member states of the European Economic Area.



DECLARATIONS OF PERFORMANCE

GENERAL TERMS OF BUSINESS

TERMS AND CONDITIONS OF SALE AND DELIVERY of ("Seller")

- Rettenmeier Holzindustrie Wilburgstetten GmbH, Industriestr. 1 | 91634 Wilburgstetten, Germany
- Rettenmeier Holzindustrie Wilburgstetten GmbH | Werk Burgbernheim, Rothenburger Straße 48, 91593 Burgbernheim, Germany
- Rettenmeier Holzindustrie Hirschberg GmbH, Ullersreuth 61, 07927 Hirschberg, Germany
- Rettenmeier Holzindustrie Ramstein GmbH, Industriestr. 1, 66877 Ramstein, Germany
- Rettenmeier Baltic Timber SIA, Pļānupes iela 26, LV-2141 Inčukalna, Latvia
- Rettenmeier Tatra Timber s.r.o, Pod lipami 68, SK-03301 Liptovský Hrádok, Slovak Republic
- Rettenmeier Holding AG, Industriestr. 1 | 91634 Wilburgstetten, Germany

1. GENERAL INFORMATION

These Terms and Conditions of Sale and Delivery apply exclusively to companies (Section 14 of the German Civil Code (BGB)), legal entities and legal special funds. They constitute an integral part of all offers and contracts for deliveries and services of the Seller, including in ongoing and future business transactions. Insofar as they do not contradict these Terms and Conditions of Sale and Delivery, the customary practices of the wood industry shall also apply, in particular the "Tegernsee customs" as amended with the related appendices and annex. Any deviating agreements and conditions, in particular purchasing conditions, shall only be binding if they are confirmed by the Seller. If two letters of confirmation containing deviating provisions cross one another when sent, the letter of the Seller shall apply. The Seller shall collect, process and store personal data only to the extent necessary to fulfil the contract.

2. Offers are without obligation. The Seller may accept offers of contract within four weeks. The right to make a prior sale is always reserved. Deliveries shall be subject to correct and complete delivery of materials to us from our suppliers. All verbal agreements require immediate written confirmation from the Seller. This also applies to contracts concluded by employees or trade representatives of the Seller. Offers made by telegram, telephone or verbally shall only apply insofar as they correspond to the offer confirmed in writing. The aforementioned provisions do not apply to agreements made after the contract has been concluded.

3. In the absence of any deviating agreements made on an individual basis, prices are ex warehouse or ex place of dispatch of the Seller and exclude packaging, protective boards and boards for placing in between (supporting timbers), shipping, unloading and any installation work that may have been agreed. These items will be charged separately. The price list of the Seller that is valid on the day concerned shall apply. All prices exclude the applicable statutory value added tax. If deliveries are made outside Germany, the Seller shall not be liable for taxes or charges incurred there.

4. Delivery times must be agreed separately. Mobilisation, war, operational disruptions, strikes, lockouts and other instances of force majeure shall entitle the Seller to postpone delivery until the situation concerned has been resolved or, if the delivery finally becomes impossible, to refrain from making the delivery. If deliveries are made outside Germany, the Seller shall not be liable for unforeseeable official import or export restrictions. If a non-binding delivery date or a non-binding delivery deadline has been exceeded by more than four weeks, the purchaser shall be entitled to send a written request to the Seller to deliver the goods by a reasonable deadline. Upon issuance of this reminder, the Seller shall be deemed to be in default. The legal consequences are governed by law and these General Terms of Business, in particular Point 7.

5. The place of performance for the delivery shall be the registered address of the Seller or, at its discretion, the place of dispatch; the place of performance for payment shall be the registered address of the Seller. Deliveries made carriage-paid to the destination or carriage-paid to the place of use require roads suitable for heavy freight vehicles. The delivery must always be unloaded by the purchaser immediately and at its expense. Shipping shall be at the risk of the purchaser, even if carriage-paid delivery has been agreed. The transport shall be insured only at the express instruction of and at the expense of the purchaser. If delivery is made carriage-paid to the destination, at the request of the Seller the shipping costs must be submitted by the purchaser or recipient without any discount.

6. If the purchaser enters into default of acceptance, the Seller shall be entitled to withdraw from the contract after an appropriate deadline, or to effect a substitute sale or to insist on performance.

7. Warranty shall be adopted for the services of the Seller in accordance with the following provisions. The Seller shall be liable without restriction in accordance with the statutory provisions insofar as a contractual obligation has been breached, either intentionally or as a result of gross negligence, by the Seller or its vicarious agents, or loss of life, physical injury or impairment to health has occurred or the Seller has assumed a guarantee. Liability for slight negligence shall be excluded unless an essential contractual obligation (material contractual obligation) has been breached. In this case, the liability shall be restricted to the amount of loss typically foreseeable for the contract. These liability restrictions shall also apply if claims to right of recourse in accordance with Section 478 of the German Civil Code (BGB) are asserted against the Seller as a supplier. The liability restrictions shall not apply to claims in accordance with Sections 1 and 4 of the German Product Liability Act (Produkthaftungsgesetz). The unavoidable and natural shrinkage of the board as a result of drying does not constitute a defect.

8. Complaints concerning any identified defects must be submitted in writing immediately after the defects have been identified. To this end, the goods must be inspected immediately following delivery. If a defect is only identified at a later stage, the complaint must be submitted immediately after the defect has been identified. If no written complaint is submitted to the Seller, the goods are considered approved unless the defect was not identifiable. If transport damage is identified when the goods arrive, before the goods are unloaded a written confirmation must be obtained from the freight forwarder as evidence for a claim for compensation to be submitted to the freight forwarder. The same shall also apply to transport by ship and rail.

9. Payments are due within 30 days of provision at the storage location in full without deductions. The purchase price shall become due and the consequences of default shall become effective without a reminder on the day determined on the basis of the invoice date and the payment period. In the event of default in payment, default interest in the amount of 8% above the base rate of the Deutsche Bundesbank shall be incurred, unless the Seller proves that it has incurred a higher loss. The purchaser shall be entitled to prove that no or a lower level of loss has been incurred. Bills of exchange and cheques shall be accepted only as conditional payment. It is not permitted to withhold payments as a result of any counter-claims whatsoever, including from other business transactions of the purchaser, or to set off claims from the same contractual relationship, unless the claim is legally established or is not contested by the Seller.

If, following the conclusion of the contract, the Seller becomes aware of circumstances for which the purchaser is responsible and that call into question its creditworthiness (in

particular default), the Seller shall be entitled to retain any advance payments provided that interest is paid on these at the rate at which the Seller obtains refinancing. The Seller shall also be entitled to make payable the entire remaining debt from the order. If the setting of a deadline has been unsuccessful and the invoiced goods are ready for dispatch, the sold goods shall be stored for the account of the purchaser. Storage costs, warehouse rent and fire insurance costs may be charged to the purchaser. The Seller shall be under no obligation to provide insurance. The purchaser shall be entitled to prove to the Seller that no or a lower level of loss has been incurred. If payment has not been received for the invoiced goods that are ready for dispatch despite the Seller having issued a reminder with a deadline, the Seller shall be entitled to withdraw from the contract. Insofar as goods of the Seller from the contractual relationship still exist, they can be immediately reclaimed or collected by the Seller or its representative at the expense of the purchaser.

10.

a) The goods shall be delivered in accordance with Section 449 of the German Civil Code (BGB) with the following additions.

b) All goods delivered to the purchaser shall remain the property of the Seller until full payment of all claims of the Seller against the purchaser (including claims arising in the future), including from other business transactions, i.e. also of a possible current account balance, insofar as this is recognised by the purchaser.

c) The purchaser shall be entitled to resell or to use the reserved goods in the ordinary course of business. A prerequisite for this is that the claims (invoice amount including value added tax) of the purchaser from the resale of the reserved goods are assigned to the Seller, regardless of whether the reserved goods are resold without being processed or after being processed and whether they are combined or incorporated and whether they are resold to one or several buyers. The assigned claim shall serve as security for the conditional seller only in the amount of the value of the reserved goods sold in each case. The assignment shall be excluded only if goods are resold as part of actual current account transactions.

d) In the event that the reserved goods are sold by the purchaser together with other goods not belonging to the Seller, either without being or after having been altered, the assignment of the purchase price claim shall only be valid in the amount of the value of the reserved goods constituting the object of this purchase contract. At the request of the Seller, the purchaser shall be obliged to store reserved goods separately and to only process and resell reserved goods separately from other goods.

e) The purchaser shall be entitled to collect the claims from the resale despite the assignment. The authority of the Seller to collect claims remains unaffected by the entitlement of the purchaser to collect claims. However, the Seller shall not collect the claim itself as long as the purchaser complies with its payment obligations in an orderly manner. If the purchaser defaults on payment or if insolvency proceedings are commenced with respect to the purchaser or are not commenced due to lack of sufficient assets, the purchaser shall be obliged to inform the Seller about the debtors of the assigned claims as well as to notify the debtors of the assignment and to instruct them to effect payment exclusively to the Seller.

f) The purchaser shall also assign the rights and claims to which it may be entitled with respect to its clients in accordance with Sections 647 and 648 of the German Civil Code (BGB) to the Seller, and shall entitle the Seller to assert these claims and rights in its own name and for its own account in the amount of the claim that has arisen in accordance with the preceding provisions.

g) The purchaser shall not be entitled to assign or pledge its claims from the resale of reserved goods in their original or altered state to a third party.

h) The processing or alteration of the delivered goods shall always be carried out for the Seller. The expectant right of the purchaser to the delivered product shall extend to the altered or processed product. The processed goods shall serve as security for the conditional seller only in the amount of the value of the reserved goods. If the purchaser processes the goods with other objects not belonging to the Seller, the Seller shall be entitled to co-ownership of the new product in the ratio of the value of the reserved goods to the other processed objects at the time of processing. For the new product created as a result of the processing, the same as for the reserved goods applies otherwise. It is considered a reserved good pursuant to these terms and conditions. The same shall apply mutatis mutandis if the reserved goods are combined or incorporated with other objects.

i) Goods subject to reservation of title in their original or altered state may only be sold in the ordinary course of business. They must not be pledged nor assigned by way of security without the consent of the Seller.

j) If the purchaser has assigned, or in future will assign, its goods warehouse either in whole or in part to another party by way of security, then the purchaser's intention to transfer ownership to the other party shall not relate to the goods subject to reservation of title in their original or altered state.

k) The purchaser shall be obliged to insure goods subject to reservation of title including in their altered state against fire and theft as extraneous products and to prove this to the Seller upon request. The reserved goods must be handled with care. The purchaser hereby already irrevocably assigns all claims to which it is entitled from this insurance to the Seller for the duration of the reservation of title in the amount resulting from these provisions on reservation of title.

l) Access by third parties to the goods subject to reservation of title in their original or altered state or to the assigned claims must be notified to the Seller immediately in writing including details of the third party's address to which summons may be served.

m) As soon as the purchaser encounters any difficulties of any kind in making payment, it may only possess reserved goods or assigned claims with written consent from the Seller.

n) The reservation of title of the Seller is conditional in that, upon full payment of the claims of the Seller from the business relationship, the ownership of the reserved goods is then transferred to the purchaser and it is granted the assigned claims. The Seller undertakes to release the securities to which it is entitled in accordance with the preceding provisions insofar as their value exceeds the claims to be secured by 10%.

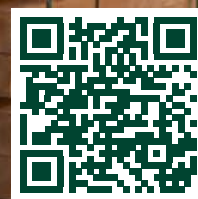
11. This present contract shall be governed by the law of the Federal Republic of Germany. In the case of contracts with merchants, legal persons under public law or special funds under public law and with foreign citizens without a place of jurisdiction within Germany, the place of jurisdiction shall be Ansbach, Germany. However, the Seller reserves the right to also initiate proceedings at the place of jurisdiction of the purchaser.

12. These provisions constitute the agreements in their entirety. Additional verbal or written ancillary agreements or additional agreements do not exist. Proof to the contrary is hereby not excluded. Should one or more provision(s) of this contract be or become invalid, this shall not affect the validity of the other provisions of this contract. In such cases, the parties undertake to fill the resulting omission with a regulation that corresponds in economic terms to that which the parties would have agreed had they been aware of the invalid provision(s).

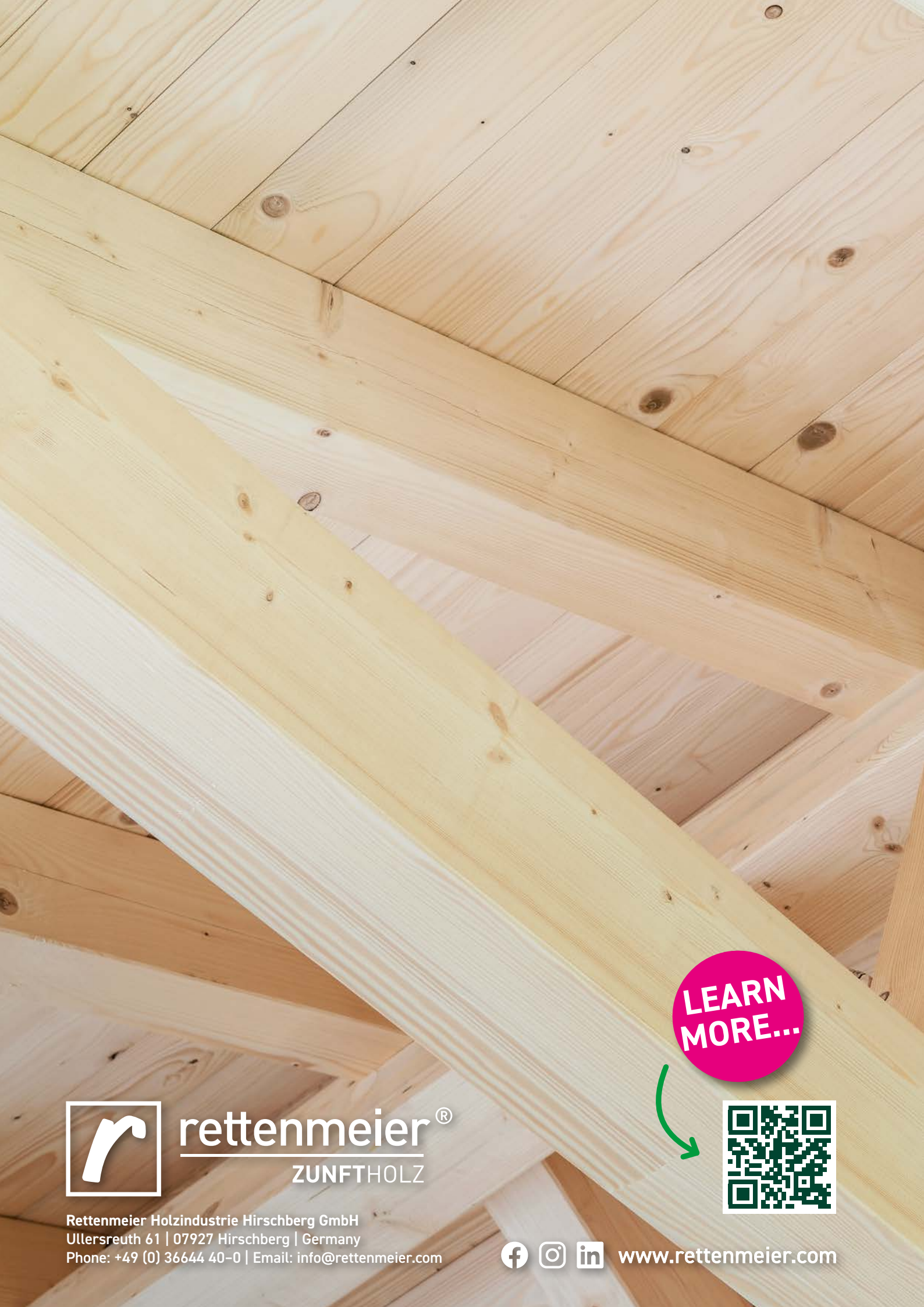
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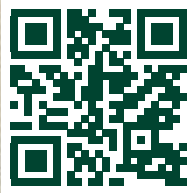
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