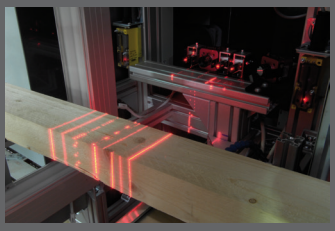
Versatility is our strength



Product Range

No matter how you look at it,
we always have the right solution.

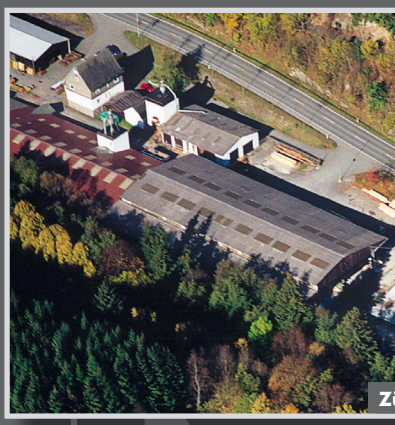
ante

The company

The family-owned company was founded in 1927 by Josef Ante in Winterberg-Züschen, and is now run by the 3rd and 4th generation. The **ante-Group** has over 1300 employees at six locations in Germany and Poland. It produces modern wood products which are sold all over the world.

The product portfolio includes sawn lumber, solid structural timber (KVH®), glued laminated timber (BSH), engineered framing as well as home and garden products such as furniture, play sets, fences and panels. The value-added chain is rounded off by the production of HD pellets from shavings and sawdust produced as a by-product. In this way, **ante** uses almost 100% of the sustainable raw material wood.

In addition to the highly motivated employees, modern machinery ensures that the high **ante** quality standards are met in all regards. **ante** meets the demands of the modern market with numerous internationally recognised certificates such as PEFC, DIN Plus, CE, etc.




Bromskirchen, Germany

Züschen, Germany

Kozuchów, Poland

Warschau

Rottleberode, Germany

Wien

Berga, Germany

Rötenbach, Germany

Sawn timber

Construction Timber - Spruce / Pine

Rough sawn, KD, 3,00 - 5,00 m (metric lengths)

mm	55	65	70	75	88	90	95	100	118	120	125	140	145	150	160	175	180	195	200	215	225	235	245	285
22								●		●		●			●									
25								●			●			●										
28								●		●		●			●									
34					●																			
35							●				●		●		●		●	●		●		●	●	●
37					●																			
38								●			●			●		●			●		●		●	
45	●							●			●			●		●			●		●		●	
50								●			●			●		●			●		●		●	
55		●					●																	
63								●			●			●		●			●		●		●	
68									●															
70			●																					
75				●				●			●			●										
90						●																		
95							●																	

Other sizes upon request

Grading:

A - grading 0 - 3: Square-edged, free from blue and red stain, shake, worm and insect infestation, few black and fallen knots as well as resin pockets, cross cut at both ends

B - grading 2 - 4: In principle square-edged, slight blue stain and slight red rot permissible, free from mold and worm infestation, cross cut at both ends

C - grading 4 - 5: Some wane, blue stain, red rot and insect infestation tolerated, cross cut at both ends

Construction Timber - Pine

Planed - S4S, pressure-treated, 3,00 - 4,00 - 5,00 m

mm	70	90	95	120	145	170	195	220
45	●		●	●	●			●
60						●		
70	●		●		●			●
90		●						
95							●	

Other sizes upon request

Grading: * in principle square-edged
* slight blue stain and slight red rot permissible
* free from mould and worm infestation
* cross cut at both ends

Framing / Carcassing - Spruce / Pine

Planed - S4S, KD, 3,00 - 5,00 m (metric lengths)

mm	63	70	89	90	95	120	140	145	170	184	195	220	235	286
19			●				●							
35				●										
38	●		●				●			●			●	●
45		●		●	●	●		●	●		●	●		
89			●											

Other sizes upon request

Grading: CLS/ SLS - J-Grade - DIN 4074/ EN 338, C16, C18, C24 - F5/F8, MGP 10/12

Boards / Dimension Lumber - SPF

Planed - S4S, KD, 92 5/8", 93", 8', 116 5/8", 117", 10', 12', 14' 16'

	4	6	8	10	12
1	●	●			
2	●	●	●	●	●
4	●				

Other sizes upon request

Grading: WCLIB - #2&Btr.

Solid Structual Timber (finger-jointed)
KVH®

Solid Structual Timber is a kiln dried, inherently stable and planed product, which is preferably used for modern architect l timber constructions. With different lengths and several dimensions, this precisely defined high quality product has been continously being perfected by the leading KVH®-producer in Europe, **ante-holz**. The permanent control of the production lines, as well as an external monitoring, guarantees permanent high valued quality.

Solid Structual Timber - Technical data

Technical characteristics	
Wood species	Spruce, Pine, Douglas fir
Grading standard	EN 338 / DIN 4074
Strength classes	C24 / S10
Moisture content	u = 15% +/- 3%
Glueing	PU glue, light-coloured glue joint, waterproof according to DIN 68141, EN 302, EN 301
Surface quality	Planed on 4 sides, chamfered edges, construction quality
Dimension tolerance	Width +/- 2mm - Height +/- 2mm - Length +/- 2mm
Dimensions	Width: 40 - 160 mm - Heigth: up to 280 mm - Length: up to 13,5
Packaging	Package wrapped in light protection plastic foil
External monitoring	MPA, Stuttgart (Germany) - Holzforschung Austria (Wien, Austria)

Solid Structual Timber - Surface qualities

Criteria	**Standard Quality**
Surface	Planed on 4 sides, chamfered, chatter permitted up to a depth of 1 mm
Insect damages	Permitted are burrows up to 2 mm
Pith	Permitted
Resin pockets	Permitted
Firmly grown knots	Permitted
Fallen-out knots	Permitted
Discoleration	Permitted
Blue stain / red streak	Permitted
Cracks caused by shrinking	No limit
Mould	Not permitted

Solid Structual Timber - KVH® - Spruce

mm	60	80	95	100	120	140	145	160	180	200	220	240	245	260	280
40	●	●		●	●			●		●					
45			●		●		●				●		●		
60	●	●		●	●	●		●	●	●		●		●	●
80		●		●	●	●		●	●	●	●	●		●	●
100				●	●	●		●	●	●	●	●		●	●
120					●	●		●	●	●	●	●		●	
140						●		●	●	●	●				

Other sizes upon request

Duo-/Triobeams
Duo®-/ Triobalken®

Duo- and Triobeams are produced like glulam. Instead of glulam lamellas, they are glued with solid structural timber. The result is a bigger, inherently stable and planed product, available in many cross-sections. These specific wood construction dimensions ensure a good cost-performance relation. They are used as an alternative for glulam beams as well as primary structures where KVH® sizes and dimensions are not thick enough.

Duo-/Triobeams - Technical data

Technical characteristics	
Wood species	Spruce
Strength class/ grading class	EN 338 / DIN 4074 / DIN EN 14080: 2013
Grading standard	C24 / S10
Moisture content	u = 15% +/- 3%
Glueing	PU glue, light-coloured glue joint, waterproof according to DIN 68141, EN 302, EN 301
Surface quality	Planed on 4 sides, chamfered edges, construction quality
Dimension tolerance	Width +/- 2mm - Height +/- 2mm - Length +/- 2mm
Dimensions Duobalken	Width: 60-160 mm - Heigth: up to 200 mm - Length: up to 13,5
Dimensions Triobalken	160x240 / 180x180 / 200x200 - Length: up to 13,5
Packaging	Package wrapped in light protection plastic foil
External monitoring	MPA, Stuttgart (Germany) - Holzforschung Austria (Wien, Austria)

Duo-/Triobeams - Surface qualities

Criteria	**Standard Quality**
Surface	Planed on 4 sides, chamfered, chatter permitted up to a depth of 1 mm
Insect damages	Permitted are burrows up to 2 mm
Pith	Permitted
Resin pockets	Permitted
Firmly grown knots	Permitted
Fallen-out knots	Permitted
Discoleration	Permitted
Blue stain / red streak	Permitted
Cracks caused by shrinking	No limit
Mould	Not permitted

Duo-/Triobeams - Spruce

mm	100	120	140	160	180	200	220	240
80					●	●	●	
100	●					●	●	●
120		●				●	●	●
140			●					
160				●				●
180					●			
200						●		

Other sizes upon request

Glulam Beams
Brettschichtholz (BSH)

With big strength and width, produced out of 40mm lamellas, glulam is having a high and dynamic influence for the innovative wooden architecture. With its high carrying capacity together with its low net weight glulam beams are used for big constructions.

Glulam is a high tech product for future buildings. Visible glulam beams are used for a very appealingly architectural design. Permanent control of the production lines, as well as an external monitoring, guarantees permanent high valued quality.

Glulam Beams - Technical data

Technical characteristics	
Wood species	Spruce, Pine
grading standard	EN 338 / DIN 4074
Strength classes	GL 24h / GL 28h / GL 32h according to EN 14080
Moisture content	u = 12% +/- 3%
Lamella thickness	40 mm
Glueing	Melamine resin glue, light-coloured glue joint, waterproof according to DIN 68141, EN 302, EN 301
Surface quality	Planed twice on 4 sides, chamfered edges, visible quality, industrial quality
Dimension tolerance	Width +/- 2mm - Height +/- 2mm - Length +/- 2mm
Dimensions	Width: 60 - 240 mm - Heigth: up to 600 mm - Length: up to 18,00 m
Packaging	Visible quality: individually wrapped - Industrial quality: wrapped per package Both in light protection plastic foil
External monitoring	MPA, Stuttgart (Germany) - Holzforschung Austria (Wien, Austria)

Glulam Beams - Surface qualities

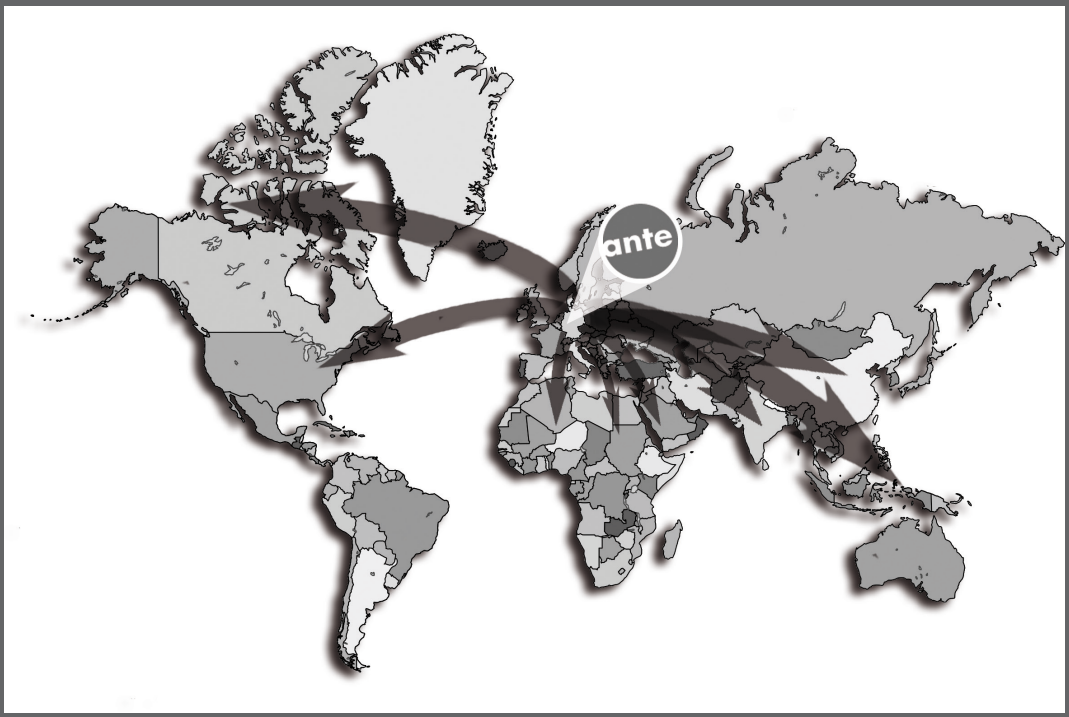
Criteria	**Visible Quality**	**Industrial Quality**
Surface	Planed on 4 sides, chamfered	Planed on 4 sides, chamfered, chatter permitted up to a depth of 1 mm
Insect damages	Not permitted	Permitted are burrows up to 2 mm
Pith	Permitted	Permitted
Resin pockets	Permitted up to 5 mm	Permitted
Firmly grown knots	Permitted	Permitted
Fallen-out knots	Permitted up to 20 mm	Permitted
Discoleration	Up to 10% of the visible surface of the whole	Permitted
Blue stain / red streak	construction component	Permitted
Cracks caused by shrinking	Up to 4 mm	No limit
Mould	Not permitted	Not permitted

Glulam Beams - Spruce

mm	100	120	140	160	180	200	240	280	320	360	400	440
60		●	●	●								
80	●	●	●	●		●						
100	●	●	●	●		●	●					
120		●	●	●		●	●	●	●			
140			●			●	●	●	●			
160				●		●	●	●	●	●	●	
180					●		●	●	●	●	●	
200						●		●	●	●	●	●

Other sizes upon request

From Germany to the world



ante-Group
Im Inkerfeld 1
D-59969 Bromskirchen-Somplar
Germany
Tel.: +49 2984/308-0 • Fax: +49 2984/8977
info@ante-holz.de
www.ante-holz.de