

binderholz

tiptop timber



GLULAM □



binderholz **GLULAM**

Glulam has been produced at the Jenbach site in Tyrol since 1996. Production takes place at two separate plants. binderholz is among the manufacturers with the highest output worldwide. Raw materials are supplied by the group's own large sawmills in Fügen in Austria and Kösching in Germany. The geographical position of the plant in the middle of European key markets allows short routes to the customer and the shortest delivery times.

BENEFITS - PROPERTIES

High load bearing capacity: low dead load and high loading capacity (lighter than steel constructions at the same load bearing capacity) enable large spans with minimum dimensions

High dimensional stability: due to production techniques, glulam is a dimensionally stable material with minimised cracking

Large variety of shapes: glulam can be produced in virtually any shape and size

High value surface quality: excellent appearance thanks to the latest scanning and planing technologies

Swelling and shrinking: glulam is dried to built-in moisture. Therefore the natural shrinking, swelling, and associated leaks and cracking is reduced

High fire resistance: the calculated combustion value of softwood is only 0.7 mm/min. In contrast with other building materials the combustion behaviour is safe and predictable (load bearing capacity is retained longer than for steel constructions)

Earthquake-safe: glulam enables earthquake-proof construction

QUALITY ASSURANCE

Raw material from the best forests, factories with their own production control, regular external inspections by independent institutes, and complete documentation are the principles of binderholz quality assurance.

LOGISTICS PLANNING

binderholz logistics department has optimum solutions for prompt and reliable delivery.



ENVIRONMENT

Climate: CO₂ remains a long-term compound in components made from wood and does not result in pollution to the atmosphere

Sustainability: the wood used originates from sustainable managed forests

Transport: the low weight of timber reduces transport costs and harmful waste gases

Natural resistance: wood is corrosion-resistant and behaves favourably to chemical aggressive substances. There is no need for chemical wood protection when used properly

Recycling: glulam is environmentally friendly, can be recycled or used for thermal utilisation

PROFITABILITY

Processing: simple and quick

Prefabrication: short assembly times thanks to high level of prefabrication

Small component dimensions: saving potential by using components with high load bearing capacities

RANGE

Manufacture takes place with the help of technically highly developed production methods.

Beams of the strength classes GL 24, GL 28, GL 32, GL 36 are produced.

binderholz is a supplier of the full range of glulam products. The core competence lies in the production of straight as well as curved beams.

STRENGTH AND RIGIDITY PROPERTIES

	1	2	3	4	5	6	7	8	9
1	Component	Combined glulam				Homogenous glulam			
2	Strength class	GL 24c	GL 28c	GL 32c	GL 36c	GL 24h	GL 28h	GL 32h	GL 36h
Strength values in N/mm²									
3	Deflection ($f_{m,k}$)	24	28	32	36	24	28	32	36
Tension:									
4	Parallel ($f_{t,0,k}$)	14	16.5	19.5	22.5	16.5	19.5	22.5	26
5	At right angles ($f_{t,90,k}$)	0.35	0.4	0.45	0.5	0.4	0.45	0.5	0.6
Compression:									
6	Parallel ($f_{c,0,k}$)	21	24	26.5	29	24	26.5	29	31
Strength values in N/mm²									
Modulus of elasticity:									
7	Parallel ($E_{0,mean}$)	11,600	12,600	13,700	14,700	11,600	12,600	13,700	14,700
8	At right angles ($E_{90,mean}$)	320	390	420	460	390	420	460	490
Shear modulus:									
9	G_{mean}	590	720	780	850	720	780	850	910
Density characteristic values in kg/m³									
10	Density ρ_k	350	380	410	430	380	410	430	450

CERTIFICATES

EN 14080 Glulam

ÖNORM EN 386

ÖNORM DIN 4074-4

JAS

Gluing approval A

Approval certificate



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