





binderholz SINGLE LAYER SOLID WOOD PANEL

In interior fixtures and furniture manufacture the use of solid wood panels is increasing in importance as an alternative to other wood materials, particularly in the top end of the range. binderholz single layer solid wood panels have secured a place, as they have the best qualifications for high quality fixtures and do justice to all visual and technical standards. Carefully sorted lamella offer the guarantee of panels with a minimum of cracking and a beautiful, even wood pattern.

Environmentally friendly gluing allows the raw material to retain all of its good natural properties and also makes it more stable and durable.

Technical data	
Wood species	Spruce, Scots pine*, Larch*, Swiss pine*
Gluing	DIN 68602 D4, ÖNORM B3021 type VF
CE certification	EN 13986 SWP/2 L-1
Panel format	5,000 x 1,220 mm
Panel thickness	14, 18, 22, 24, 27, 32, 40, 42, 50, 52 mm
Lamella width	Approx. 42 mm - 60 mm end-to-end
Sorting quality	ÖNORM B3021, EN 13017-1
Quality	Interior finishing A Construction B
Surface	Sanded on both sides K 80
Moisture content	10% ex factory

* Thicknesses available on request

binderholz 3 or 5 LAYER SOLID WOOD PANEL

binderholz supplies the single, three and five layer solid wood panel for use in high quality interior fittings, furniture making and for use in structural wood construction work. It offers the best conditions for a successful and easy processing and complies with all visual and technical standards.

Mechanically visually sorted lamella offer the guarantee of panels with a minimum of cracking and a beautiful, even wood pattern.

The environmentally friendly three or five layer gluing, in combination with the thick top coats ensure that the raw wood material retains all of its good natural properties and also makes it more stable and durable.

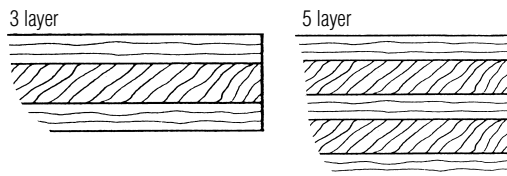
Technical data	
Wood species	Spruce, Scots pine*, Larch*, Swiss pine*, Douglas*, White fir*
Gluing	DIN 68705 part 2 AW100, ÖNORM B3022 type VF
CE certification	EPH Dresden to EN 13986 SWP/2 L3/L5
Panel format	5,000 x 2,050 mm, 5,000/6,000 x 1,250 mm
Panel thickness	3 layer panel 12, 16, 19, 22, 27, 32, 40, 50, 60 mm 5 layer panel 35, 42, 50, 52 mm
Lamella width	Approx. 120 mm
Sorting quality	EN 13017-1
Surface	Sanded on both sides K 80
Moisture content	8% ex factory

* Thicknesses, formats and quality grades available on request



binderholz 3 or 5 LAYER CONSTRUCTION PANEL

The binderholz three or five layer construction panel was developed specially for planking large areas external and internal. Technical concept and gluing give the wood material excellent properties regarding to bending and weather resistance. Perfect thermal values and ideal processing options are the basis for an efficient and lasting application. Mechanically visually graded lamella guarantee panels with a minimum of cracking and a beautiful, even wood pattern.



Technical data	
Wood species	Spruce, Larch*, Douglas*
Gluing	DIN 68705 part 2 AW100, ÖNORM B3022 type VF
CE certification	EPH Dresden to EN 13986 SWP/2 and SWP/3 L3/L5
Panel format	5,000 x 2,050 mm (trimming possible), 5,000/6,000 x 1,250 mm
Panel thickness	3 layer panel 12, 16, 19, 22, 27, 32, 40, 50, 60 mm 5 layer panel 35, 42, 50, 52 mm
Lamella width	Approx. 130 mm
Sorting quality	EN 13017-1
Surface	Sanded on both sides K 80 Quality B/C+ Repaired on both sides Quality B/C Repaired on one side Quality C/C Not repaired on either side
Moisture content	8-9% ex factory

* Thicknesses, formats and quality grades available on request



binderholz MULTISTAT CONSTRUCTION PANEL

Complementing the binderholz 3 or 5 layer construction panels, the binderholz Multistat construction panel is approved for use indoors and outdoors as a structural and bracing wood material. Applications include use as structural timber, flat or curved, bracing and structural components, as well as for static wall, ceiling and roof elements.

binderholz Multistat construction panels bear the AUSTRIA quality mark and are regularly monitored by eph Dresden as a third party. These special 3- and 5-layer spruce solid wood panels are manufactured and tested in accordance with EN 13986.

BENEFITS

- Wide range of options for external and internal application
- Highly stable, compact and strong while relatively lightweight
- Minimal cracking - right side of lamella to the outside
- Minimal warping - consistent drying of the lamella
- Easy to process, durable material
- Various types of surface and edge processing possible
- Natural finish, biologically healthy
- Highly durable, breathable material
- Environmentally building material - no additional formaldehyde emission



Thickness in mm														
S - values related to the current standard EN 12369-3, SD - individual, declared values (Multistat)														
Thickness (mm)	12 - 20		> 20 - 30			> 30 - 42					> 42 - 60			
		19		22	27		32	40	42	35	42		50	60
L3, L5/SD		L3		L3	L3		L3	L3	L3	L5	L5		L3	L3
	S	SD	S	SD	SD	S	SD	SD	SD	SD	SD	S	SD	SD
Characteristic strength [N/mm ²] Panel loads														
Bending strength $f_{m,0}$	35	40	30	40	37	16	33	26	25	31	36	12	32	28
Bending strength $f_{m,90}$	5	12	5	10	9	9	13	18	18	21	19	9	14	16
Share $f_{v,0}$	4		4			3,5					2,5			
Share $f_{v,90}$	5		3,5			2,5					2			
Characteristic strength [N/mm ²] Disc loads														
Bending strength $f_{p,0}$	25		14			12					10			
Bending strength $f_{p,90}$	12		12			12					12			
Tensile $f_{t,0}$	16		9			6					6			
Tensile $f_{t,90}$	6		6			6					6			
Compressive $f_{c,0}$	16		16			10					10			
Compressive $f_{c,90}$	10		10			16					16			
Share $f_{t,0}$	1,6		1,6			1,2					1,2			
Share $f_{t,90}$	1,4		1,4			1,4					1,4			
Medium stiffness [N/mm ²] Panel loads														
Bending strength $E_{m,0}$	10000	11000	8200	11100	11500	7600	10400	9000	9000	9400	9600	7100	10800	9800
Bending strength $E_{m,90}$	550	1500	550	1100	700	1500	1800	3100	3400	4200	3500	1500	2100	2800
Share $G_{v,0}$	470		470			470					470			
Share $G_{v,90}$	470		470			470					470			
Medium stiffness [N/mm ²] Disc loads														
Bending stiffness $E_{p,0}$	4700		2900			2400					1800			
Bending stiffness $E_{p,90}$	3500		3500			4700					4700			
Tensile $E_{t,0}$	4700		3500			2400					2400			
Tensile $E_{t,90}$	2900		2900			2900					2900			
Share $G_{t,0}$	41		41			41					41			
Share $G_{t,90}$	41		41			41					41			

binderholz

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