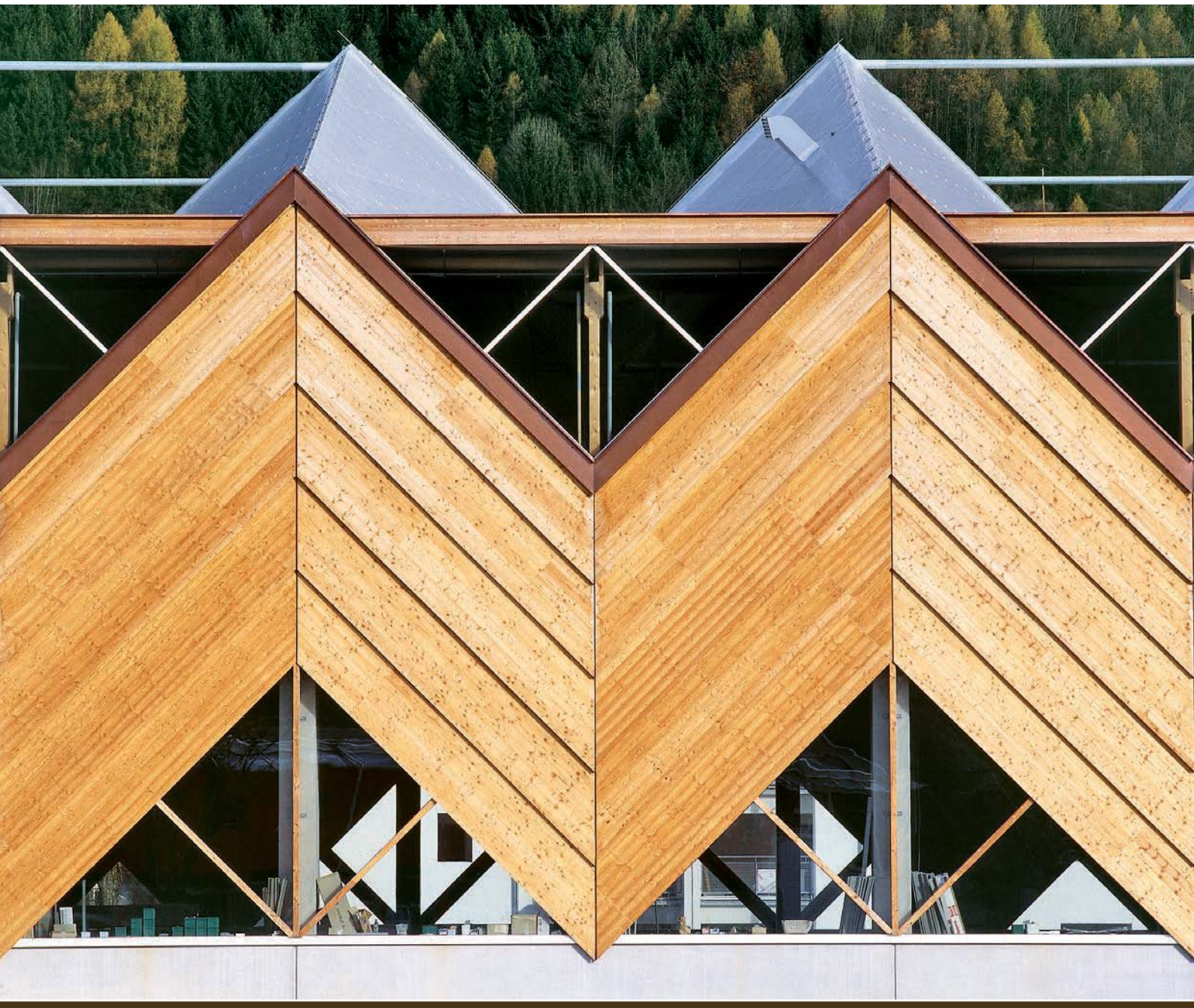
SBR

Sustainable Building Resources

tiptop timber



SOLID WOOD AND CONSTRUCTION PANELS

SINGLE PLY 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 ply 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	EPH Dresden to EN 13986 SWP/2 L-1
Panel format	5,000 x 1,220 mm, 5,000 x 2,050 mm on request
Panel thickness	14, 18, 22, 24, 27, 32, 40, 42, 50, 52, 56 mm
Lamella width	Approx. 42 mm - 70 mm end-to-end
Sorting quality	ÖNORM B3021, EN 13017-1
Quality Interior finishing Construction	A B
Surface	Sanded on both sides K 80
Moisture content	10% ex factory

* Thicknesses available on request

3/MULTIPLY SOLID WOOD PANEL

SBR supplies the single, three and multiply 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.

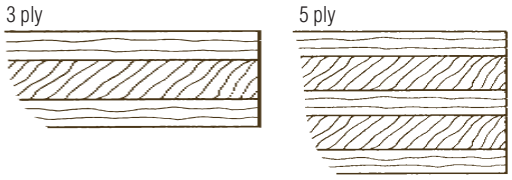
The environmentally friendly three or multiply gluing, in combination with the thick top coats ensure that the raw wood material retains all of its good natural properties and also makes it more stable and durable.

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	5000 x 1250 mm, 5000 x 2050 mm, 6000 x 1250 mm
Panel thickness 3 ply panel 5 ply panel	 12, 16, 19, 22, 27, 32, 40, 50, 60 mm 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

3/MULTIPLY CONSTRUCTION PANEL

The sbr 3 or multiply 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 x 1,250 mm
Panel thickness 3 ply panel 5 ply panel	 12, 16, 19, 22, 27, 32, 40, 50, 60 mm 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% ex factory

* Thicknesses, formats and quality grades available on request

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
All types of surface and edge processing possible
Natural finish, biologically healthy
Highly durable, breathable material
Environmentally building material - no additional formaldehyde emission

Characteristic strength factors and stiffnesses
selected panel types in N/mm² for the size according to DIN 1052:2008-12

	3 ply panel									5 ply panel		
Nominal thickness (mm)	**12**	**16**	**19**	**22**	**27**	**40**	**42**	**50**	**60**	**35**	**42**	**55**
Top layers (mm)	3,75	5,1	5,2	6,2	8,7	8,45	8,5	12,5	12,5	6,0	7,8	8,5
Intermediate layers (mm)										8,6	8,6	15,0
Central layer (mm)	4,5	5,8	8,6	9,6	9,6	23,1	25,0	25,0	35,0	5,8	9,2	8,0
Panel load												
$f_{m,0}$	37,0	34,9	31,6	30,3	28,7	24,4	23,8	26,3	24,2	21,9	23,1	20,5
$f_{m,90}$	6,7	6,5	8,1	7,3	6,4	11,4	11,9	9,2	11,5	13,8	12,5	15,1
$E_{m,0}$	11300	11400	10900	11000	11400	9700	9500	10500	9600	8700	9200	8200
$E_{m,90}$	1000	900	1450	1350	900	2600	2800	1800	2700	3600	3150	4150
f_w	1,5									1,5		
G	60									60		
Slab load												
$f_{m,0}$	19,1	19,5	16,8	17,3	19,6	13,2	12,7	15,5	13,0	15,7	18,1	14,1
$f_{m,90}$	11,8	11,5	14,1	13,6	11,3	17,7	18,2	15,5	17,9	15,2	12,8	16,8
$f_{c,0}$	14,6	14,9	12,9	13,2	15,0	10,1	9,7	11,8	10,0	12,0	13,8	10,8
$f_{c,90}$	9,1	8,8	10,8	10,4	8,6	13,6	14,0	11,8	13,7	11,6	9,8	12,9
$f_{t,0}$	11,4	11,7	10,1	10,4	11,8	7,9	7,6	9,3	7,8	9,4	10,8	8,5
$f_{t,90}$	7,1	6,9	8,4	8,1	6,7	10,6	10,9	9,3	10,7	9,1	7,7	10,0
fv	2,7									2,7		
$E_{m,0}$	7600	7800	6700	6900	7800	5300	5100	6200	5200	6300	7200	5600
$E_{m,90}$	4700	4600	5600	5400	4500	7100	7300	6200	7100	6000	5100	6700
G	600									600		

The k_h factor is integrated in the tables

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