

Bearing and non-bearing 3-layer solid wood panel according to EN 13986

Requirements	EN 13353, EN 13986 CE
Operation classes	SWP/1, SWP/2, SWP/3 according to EN 13353
Technical classes	SWP/1 NS, SWP/2 NS, SWP/3 NS, SWP/1 S, SWP/2 S, SWP/3 S
Wood species	Local spruce, Nordic spruce, Siberian larch
Glueing	AW100 according to DIN 68705, SWP/3 according to EN 13354
Adhesive	Melamine adhesive
Standard formats (mm)	thickness: 14, 16, 19, 21, 27 (6-15-6), 27 (9-9-9), 32, 42, 50, 60 width: 1040, 1250, 2100, 2500 length: 2500, 2750, 3000, 4000, 5000, 6000, 7000, 8000, 10000
Surface	sanded – K 50, 100
Moisture	spruce 8±2%, larch 12±2%
Density	spruce cca 490 kg/m ³ , larch cca 580 kg/m ³
Formaldehyde emission class	EN according to EN 717-1, EN16516 for values refer to the test reports
Reaction to fire	D-s2, d0 according to EN 13 501-1
Design value of thermal conductivity (λ)	for spruce 0,13 W/mK at a density of panels 490 kg/m ³ according to EN ISO 10456 for larch 0,15 W/mK at a density of panels 580 kg/m ³ according to EN ISO 10456
Factor of diffusion resistance (μ)	200/70 (dry/wet) according to EN ISO 10456
Sound absorption	250 – 500 Hz – 0,1 1000 – 2000 Hz – 0,3
Airborne sound insulation (dB)	$R = 13 \times \log(m_a) + 14$ m_a – surface weight kg/m ²
Specific thermal capacity (c_p)	1600 J/kgK according to EN ISO 10456

Requirements for density and characteristic strength values according to EN 13353

Property	Testing method	Panel nominal thickness [mm]				
		>12 ≤ 20	>20 ≤ 30	>30 ≤ 42	> 42	
Stress perpendicular to the panel plane [N/mm²]						
$f_{m,0,k}$	Bending strength parallel to the fibres of the outer layers	EN 789	35	30	16	12
$f_{m,90,k}$	Bending strength perpendicular to the fibres of the outer layers	EN 789	5	5	9	9
$E_{0,mean}$	Modulus of elasticity parallel to the fibres of the outer layers	EN 789	8500	7000	6500	6000
$E_{90,mean}$	Modulus of elasticity perpendicular to the fibres of the outer layers	EN 789	470	470	1300	1300

Certificates

SWP/1	1393-CPR-0018
SWP/2	1393-CPR-0019
SWP/3	1393-CPR-0020