



# TECHNICAL DATA SHEET

## AGROP SWP

### AGROP SWP – a bearing and non-bearing 3-layer solid wood panel according to EN 13986

<b>Requirements</b>	EN 13353, EN 13986
<b>Operation classes</b>	SWP/1, SWP/2, SWP/3 according to EN 13353
<b>Technical classes</b>	SWP/1 NS, SWP/2 NS, SWP/3 NS, SWP/1 S, SWP/2 S, SWP/3 S
<b>Wood species</b>	Local spruce, Nordic spruce, Siberian larch
<b>Glueing</b>	AW100 according to DIN 68705, SWP/3 according to EN 13354
<b>Adhesive</b>	Melamine adhesive
<b>Standard formats (mm)</b>	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
<b>Surface</b>	sanded – K 50, 100
<b>Moisture</b>	spruce 8±2%, larch 12±2%
<b>Density</b>	spruce cca 490 kg/m <sup>3</sup> , larch cca 580 kg/m <sup>3</sup>
<b>Formaldehyde emission class</b>	E1 according to EN 717-1 for values refer to the test reports
<b>Reaction to fire</b>	D-s2, d0 according to EN 13 501-1
<b>Design value of thermal conductivity (λ)</b>	for spruce 0,13 W/mK at a density of panels 490 kg/m <sup>3</sup> according to EN ISO 10456 for larch 0,15 W/mK at a density of panels 580 kg/m <sup>3</sup> according to EN ISO 10456
<b>Factor of diffusion resistance (μ)</b>	200/70 (dry/wet) according to EN ISO 10456
<b>Sound absorption</b>	250 – 500 Hz – 0,1 1000 – 2000 Hz – 0,3
<b>Airborne sound insulation (dB)</b>	$R = 13 \times \log(m_a) + 14$ $m_a$ – surface weight kg/m <sup>2</sup>
<b>Specific thermal capacity (c<sub>p</sub>)</b>	1600 J/kgK according to EN ISO 10456



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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
$\rho$	Density (kg/m <sup>3</sup> )	EN 323	410	410	410	410
<b>Stress perpendicular to the panel plane [N/mm<sup>2</sup>]</b>						
$f_{m,0,k}$	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