


TECHNICAL DATA SHEET

NOVATOP SWP – DOUGLAS

NOVATOP SWP – non-bearing 3-layer solid wood panel according to EN 13986	
Requirements	EN 13353, EN 13986 
Operation classes	SWP/2, SWP/3 according to EN 13353
Technical classes	SWP/2 NS, SWP/3 NS
Wood species	Douglas
Glueing	AW100 according to DIN 68705, SWP/3 according to EN 13354
Adhesive	Melamine adhesive
Patching material	putty of dark shade, patching of natural knots with diameter ranging from 10 to 40 mm
Standard formats (mm) / Quality	thickness: 19 (6-7-6), 27 (9-9-9) width: 1040, 1250, 2100, 2500 length: 2500, 5000
Quality	B/C
Surface	Sanded – P 100
Moisture	8±2%
Density	cca 530 kg/m ³
Formaldehyde emission class	EN according to EN 717-1, EN16516
Reaction to fire	D-s2, d0 according to EN 13 501-1
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

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Density, strength and flexural modulus of elasticity of multi-layer panels made of solid wood (requirements for SWP/1 S, SWP/2 S and SWP/3 S technical classes)

Property	Testing method	Panel nominal thickness [mm]		
		12 - 20	>20 - 30	>30 - 80
Density (kg/m³)	EN 323	410		
Bending strength perpendicular to the panel plane (N/mm²)				
parallel to the direction of the fibres	EN 789	30	27	20
perpendicular to the direction of the fibres		5	5	10
Modulus of elasticity perpendicular to the panel plane (N/mm²)				
parallel to the direction of the fibres	EN 789	8 500	8 500	6 800
perpendicular to the direction of the fibres		550	700	1 300

Comment: The 5% quantile percentile of the modulus of elasticity provided in the table corresponds to 85% of the average modulus of elasticity. The bending properties are determined according to EN 789; an optional span corresponding to 30 times the nominal thickness and the force acting at the third point of the span can be used. The local modulus of elasticity is determined. By modifying the test setup mentioned above, it is possible to reduce the issue of rolling shear failure during bending tests.

Certificates

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

QUALITY SPECIFICATIONS

DOUGLAS

Classification of quality according to en 13017-1		
Features for sorting	Quality B	Quality C
General requirements, longitudinal joints	flawless gluing, without open joints	flawless gluing, repaired longitudinal joints allowed
Structure, course of fibres, compression wood	roughly grown and light compression wood allowed	no special requirements
Knottiness	ealthy, firmly joint knots , occasionally black knots-eyes allowed	no special requirements
Repair natural knots	allowed, used larch or douglas knots	no special requirements
Bark	separately allowed	no special requirements
Cracks	surface cracks, open end cracks up to 50 mm of length allowed	no special requirements
Infestation with insect, worm	not allowed	not allowed, worm occasionally allowed
Discolouration, fungus	week discolouration allowed	no special requirements
Thickness of glued joints	max. 0,3 mm	no special requirements
Surface machining	occasionally allowed small defects	no special requirements
Quality of the panel edge such as bulges, battered places	occasionally allowed	no special requirements
Combination of different wood species	not allowed	allowed
Width of individual parts – excluding the outer ones	no special requirements	no special requirements
Wood pattern	according to the colour and the structure uniform wood pattern	no special requirements
Core	mostly corewood of red colour	no special requirements
Sap	marginal sapwood	no special requirements

QUALITY SPECIFICATIONS DOUGLAS

QUALITY CLASS B



QUALITY SPECIFICATIONS DOUGLAS

QUALITY CLASS C



Higher share of sapwood



Surface cracks, cracked knots



Gaps over 40 mm and fallen out knots

