PROPERTIES	VALUES			REMARKS	MEASURED ACCORDING TO STANDARD
Moisture content	4-12%				EN 322
Density	550-800 kg/m^3				EN 323
Number of plies – according to panel thickness Markings: „I and „–" 1,5 mm plies	Nominal thickness (t) [mm]	Number of plies	Example of panel assembly	Standard thickness of veneer is 1,5 mm	
	4	3	I – I		
	6,5	5	I – I – I		
	9	7	I – I – I – I		
	12	9	I – I – I – I – I		
	15	11	I – I – I – I – I – I		
	18	13	I – I – I – I – I – I – I		
	21	15	I – I – I – I – I – I – I – I		
	24	17	I – I – I – I – I – I – I – I – I		
	27	19	I – I – I – I – I – I – I – I – I – I		
	30	21	I – I – I – I – I – I – I – I – I – I – I		
	35	25	I – I – I – I – I – I – I – I – I – I – I – I – I		
Tolerances on length and width of the panel	± 3,5 mm				EN 315 EN 324-1

Thickness tolerance		Unsanded panels		Sanded panels			EN 315 EN 324-1
	Nominal thickness (t) [mm]	Thickness tolerance within one panel [mm]	Tolerances on nominal thickness [mm]	Thickness tolerance within one panel [mm]	Tolerances on nominal thickness [mm]		
	≥ **3** ≤ **12**	1,0	+(0,8+0,03t) −(0,4+0,03t)	0,6	+(0,2+0,03t) −(0,4+0,03t)		
	> **12** ≤ **25**	1,5					
	> **25** ≤ **30**			0,8	+(0,0+0,05t) −(0,4+0,05t)		
	> **30**				+(0,0+0,03t) −(0,4+0,03t)		

For sanded panels:

Thickness (t) [mm]	4	5-8	9-11	12-14	15-18	19-21	22-24	25	26	27-28	29-30	31	32-34	35-38	39-40
Tolerance [mm]	+0,3 -0,5	+0,4 -0,6	+0,5 -0,7	+0,6 -0,8	+0,7 -0,9	+0,8 -1,0	+0,9 -1,1	+1,0 -1,2	+1,3 -1,7	+1,4 -1,8	+1,5 -1,9	+0,9 -1,3	+1,0 -1,4	+1,1 -1,5	+1,2 -1,6

Tolerance for straightness of edges and squareness	1 mm/m		EN 315 EN 324-2
Bending strength	30-100 MPa	Depending on type of wood used for particular plywood plate	EN 310
Tensile strength	30-60 MPa		
Compression strength	25-50 MPa		
Modulus of elasticity in bending	3500–10000 MPa		

<table>
<tr><th>PROPERTIES</th><th>VALUES</th><th>REMARKS</th><th>MEASURED ACCORDING TO STANDARD</th></tr>
<tr><td>Dimensional changes associated with changes in relative humidity</td><td>do 0,5%</td><td></td><td>EN 318</td></tr>
<tr><td>Formaldehyde emission class</td><td>Emission class A ≤ 3,5 mg HCHO/m²·h;
Standard formaldehyde emission
acc. to CARB Phase 1 (≤ 0,8 mg/m²·h) or 2 (≤ 0,5 mg/m²·h)</td><td>Hygenic class E1</td><td>EN ISO 717-2</td></tr>
<tr><td>Bonding quality</td><td><table><tr><th>Mean shear strength f_v [N/mm²]</th><th>Mean apparent cohesive wood failure [%]</th></tr><tr><td>$0,2 \le f_v < 0,4$</td><td>> 80</td></tr><tr><td>$0,4 \le f_v < 0,6$</td><td>> 60</td></tr><tr><td>$0,6 \le f_v < 1,0$</td><td>> 40</td></tr><tr><td>$1,0 \le f_v$</td><td>no requirement</td></tr></table></td><td></td><td>EN 314-2</td></tr>
<tr><td>Reaction to fire class</td><td>D–s2,d0
D – products which can resist in a long time reaction of a small flame, without significant propagation of flame. They can resist termal reaction of single flaming object with sufficient termal emission
s2 – all quanity of smoke and increase factor of smoke emission are limited
d0 – there are not flaming drops/particles</td><td>Thickness ≥ 9 mm
Density ≥ 400 kg/m³</td><td>EN 13986
EN 13501-1</td></tr>
<tr><td></td><td>F – products for which is not given reaction to fire class</td><td>Thickness ≤ 9 mm</td><td></td></tr>
<tr><td>Water vapour resistance factorsj</td><td><table><tr><th rowspan="2">Mean density [kg/m³]</th><th colspan="2">Resistance factor on water vapour penetration μ</th></tr><tr><th>for high air moisture content</th><th>for low air moisture content</th></tr><tr><td>300</td><td>50</td><td>150</td></tr><tr><td>500</td><td>70</td><td>200</td></tr><tr><td>700</td><td>90</td><td>220</td></tr><tr><td>1000</td><td>110</td><td>250</td></tr></table></td><td></td><td>EN 13986
EN 12524</td></tr>
<tr><td>Sound absorption coefficient</td><td><table><tr><th>Frequency range 250 Hz do 500 Hz</th><th>Frequency range 1000 Hz do 2000 Hz</th></tr><tr><td>0,10</td><td>0,30</td></tr></table></td><td></td><td>EN 13986</td></tr>
<tr><td>Airborne sound insulation</td><td>The sound transmission loss R of a single wood-based panel, measured in dB, is related to the mean surface mass m_A in kg/m² according to the following equation:
$R = 13 \times lg(m_A) + 14$
(which is only valid for frequency range of 1 kHz to 3 kHz at a surface mass > 5 kg/m²)</td><td></td><td>EN 13986
EN ISO 140-3
EN ISO 717-1</td></tr>
<tr><td>Thermal conductivity</td><td><table><tr><th>Mean density [kg/m³]</th><th>Thermal conductivity λ [W / (m °K)]</th></tr><tr><td>300</td><td>0,09</td></tr><tr><td>500</td><td>0,13</td></tr><tr><td>700</td><td>0,17</td></tr><tr><td>1000</td><td>0,24</td></tr></table></td><td></td><td>EN 13986
EN 12664</td></tr>
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