Technical Datasheet

Eurospan ELS JP F0,3 (F****)

Recipe: 146

ELS (Egger Legal Sources): Wood from controlled sources according to EUTR.

Application: Particle board with reduced formaldehyde release based on Japanese standard JIS A 5908:2015 and Australian standard AS/NS 1859.1:2004 class M

Mechanical properties Board mean values	Unit	Board thickness				
		>6 - 13	>13 - 20	>20 - 25	>25 - 32	>32 - 40
Density EN 323	[kg/m³]	specific to plant				
Internal bond EN 319	[N/mm²]	0.45	0.35	0.30	0.25	0.20
Bending strength EN 310	[N/mm²]	13.0	13.0	13.0	13.0	10.0
Bending modulus of elasticity EN 310	[N/mm²]	1.800	1.600	1.500	1.800	1.800
Surface soundness EN 311	[N/mm²]	0.95				
Thickness swelling 24 h EN 317	[%]	12.0				
Board moisture* EN 322	[%]	4 - 13				
Formaldehyde emission class(es)**		F****				

General tolerances	Unit	Board thickness				
		>6 - 13	>13 - 20	>20 - 25	>25 - 32	>32 - 40
Length and width tolerance EN 324	[mm]	±5.0				
Squareness EN 324	[mm/m]	<=2.0				
Edge straightness tolerance EN 324	[mm/m]	<=1.5				
Thickness tolerance EN 324	[mm]	±0.3				
Tolerance on the mean density EN 323	[%]	±10				

Building physical properties	Unit	Board thickness				
		>6 - 13	>13 - 20	>20 - 25	>25 - 32	>32 - 40
Fire behaviour category						
In line with EN13986 (9mm) and density 600 kg/m³		D-s2. d0				
Water vapour diffusion resistance value						
			μ moist		μ dry	
Mean bulk density 600 kg/m³			15		50	
Mean bulk density 900 kg/m³			20		50	
Thermal conductivity EN 13986						
Mean bulk density 600 kg/m³	[W/(m*K)]		0.12			
Mean bulk density 900 kg/m³			0.18			
Air sound insulation EN 13986						
EN 13986			R = 13 x lg(mA) + 14 (mA = board weight per unit area kg/m²)			
Sound absorption EN 13986						
Frequency range						
250 Hz bis 500 Hz			0.1			
1000 Hz bis 2000 Hz			0.25			
Biological durability EN 13986						
EN 335-3			Hazard class 1 (without earth contact, dry 20°C / 65% relative humidity)			
PCP content EN 13986						
EN 13986	[ppm]		<5			

* On delivery

** The product complies with the following emission class(es):
F****: According to the Japanese standard JIS A 5905, the uncoated chipboards complies with the limit value (mean value) of ≤ 0.3 mg HCHO/L according to the desiccator method JIS A 1460.

Provisional note:
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