

天马绿建(南通)木结构科技有限公司

Tianma Lvjian (Nantong) Wooden Structure Technology Co., Ltd. No.82 Jianghai Rd, Nantong, Jiangsu, China

Tel: +86 400 1630 885

Declaration of Performance

NO.TL-DOP-250401

1.	Unique Identification code of product type	Birch Plywood, uncoated, based on phenol-formaldehyde resin		
2.	Intended use(s): Technical class(es): Thickness range:	Plywood for internal use as a non-structural component in humid conditions 4 - 8 mm: 3 (EN 636-2) 9 - 40 mm: 3 (EN 636-2NS) 4 mm - 40 mm		
3.	Manufacturer (Adress)	Tianma Lvjian (Nantong) Wooden Structure Technology Co.,Ltd. No.82 Jianghai Rd, Nantong, Jiangsu, China		
4.	System of Assessment and Verification of Constancy of Performance (AVCP)	System 4		
5.	Harmonized standard	EN 13986:2004+A1:2015		
	Notified body	OTC Bulgaria Ltd. (notified body 2787) Certificate N°: VCP-12112, valid till 14.03.2027.		
6.	Declared performances			

6.	Declared performances			
	Essential characteristics	*	Performance	Harmonized technical specification
	Bending strength (acc. to EN 636) in length direction ($f_{m,0}$) width direction ($f_{m,\infty}$)	class	5,0 - 9,0 mm F 50/30 12,0 - 15,0 mm F 50/30 18,0 mm F 40/40 21,0 - 40,0 mm F 40/35	. ,
	Modulus of elasticity in bending (stiffness In bending acc. to EN 636) in length direction ($_{\rm Em}$,0) / width direction ($_{\rm fm}$, $_{\rm SO}$)	class	5,0 - 9,0 mm E 100/40 12,0 - 15,0 mm E 80/60 18,0 mm E 80/70 21,0 - 40,0 mm E 80/60	
	Characteristic strength values in bending f _{m,05} (0/90) (_{im,0} /f _{m,90})	N/mm²	5,0 - 9,0 mm 50/30 12,0 - 15,0 mm 50/30 18,0 mm 40/40 21,0 - 40,0 mm 40/30	
	Characteristic strength values in tension, compression f _{t-c,05} (0/90) (f _{t-c,0} /f _{t-c,90})	N/mm²	5,0 - 9,0 mm 20/15 12,0 - 15,0 mm 20/15 18,0 mm 16/20 21,0 - 40,0 mm 16/15	*
	Characteristic strength in shear (0/90) (f./f _r)	N/mm²	6,3/ 1,0	
	Stiffness in bending $E_{m,50}(0/90)$ ($E_{m,0}/E_{m,90}$)	N/mm²	5,0-9,0 mm 10000/4000 12,0-15,0 mm 8000/6000 18,0 mm 8000/7000 21.0 - 40.0mm 8000/6000	
	Stiffness in tension. Compression $E_{tc,50}$ (0/90) ($E_{tc,0}/E_{tc,90}$)	N/mm²	5,0 - 9,0 mm 5000/3200 12,0 - 15,0 mm 4000/4800 18,0 mm 4000/5600 21,0 - 40,0 mm 4000/4800	EN 13986:2004 +A1:2015
	Stiffness in shear (0/90) (G _r /G _r)	N/mm²	480 / 60	1
	Punching shear (for floor and roofs) as point load strength and point load stiffness	N and N/mm ²	NPD	
	Racking resistance for walls)	N and N/mm ²	NPD	1
	Impact resistance (for floors, roofs and walls)	class	NPD	}
-	Reaction to fire	class	[d-s2,d0]	l
	Water vapour permeability (µ)	value	wet cup: 90 / dry cup: 220	
	Release of formaldehyde (expressed as class E1 or E2)	class	E1	!
	Release (content) of pentachlorphenol (PCP)	ppm	NPD	
	Airbase sound insulation (R)	dB	NPD	
	Sound absorption (factor α)	value	0,10 α (250 Hz - 500 Hz) 0,30 α (1 000 Hz - 2 000 Hz)	1
	Thermal conductivity (λ)	W/(m*K)	0,17	1
	Embedment strength (f _n)	N/mm²	NPD	1
	Air permeability (V ₀)	m³/h	NPD	965
Dilley	Bonding strength (expressed as bonding classes 1, 2 or 3) (acc. to EN 314-1, 2)	class	2	
	Internal bond	N/mm²	NPD	
	Swelling thickness	%	CIONOS	
5	Moisture resistance	class	OUL TORE	
•	Mechanical (i.e. duration of load creep) - modification factors k _{mod} and k _{duf}	value /	NPD (%)	
	Biological	use class	NPD A	
	N. D. J	3	1. 双层键 用地 空	

"NPD...No Performance Determine

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer defined above.

Signed by

Haifeng Ma Head of Quality Department name and function