



TIANMA
LVJIAN

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-250402

1.	Unique Identification code of product type	Birch Plywood, coated, based on phenol-formaldehyde resin		
2.	Intended use(s): Technical class(es): Thickness range:	Plywood for external use as a non-structural component 4 - 8 mm: 3 (EN 636-3) 9 - 40 mm: 3 (EN 636-3NS) 4 mm - 40 mm		
3.	Manufacturer (Address)	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			
	Essential characteristics	Performance	Harmonized technical specification	
	Bending strength (acc. to EN 636) in length direction ($f_{m,0}$) / width direction ($f_{m,90}$) 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	EN 13986:2004 +A1:2015	
	Modulus of elasticity in bending (stiffness in bending acc. to EN 636) in length direction ($E_{m,0}$) / width direction ($E_{m,90}$) 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) ($f_{m,0} / f_{m,90}$) N/mm ²	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/mm ²	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_v / f_t) N/mm ²	6,3/ 1,0		
	Stiffness in bending $E_{m,50}$ (0/90) ($E_{m,0} / E_{m,90}$) N/mm ²	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 $E_{t,c,50}$ (0/90) ($E_{t,c,0} / E_{t,c,90}$) N/mm ²	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		
	Stiffness in shear (0/90) (G_v / G_t) N/mm ²	480 / 60		
	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		
	Impact resistance (for floors, roofs and walls) class	NPD		
	Reaction to fire class	[d-s2,d0]		
	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 pentachlorophenol (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)		
	Thermal conductivity (λ) W/(m*K)	0,17		
	Embedment strength (f_e) N/mm ²	NPD		
Air permeability (V_0) m ³ /h	NPD			
Durability	Bonding strength (expressed as bonding classes 1, 2 or 3) (acc. to EN 314-1, 2) class	3		
	Internal bond N/mm ²	NPD		
	Swelling thickness %	NPD		
	Moisture resistance class	3		
	Mechanical (i.e. duration of load creep) - modification factors k_{mod} and k_{def} value	NPD NPD		
	Biological use class	NPD		

*NPD...No Performance Determined

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is 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

