



TIANMA LVJIAN
WORLDWIDE PLYWOOD EXPERTS

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
电话 Tel: +86 400 1630 885

Declaration of Performance

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 structural/non-structural component 4 - 8 mm: 3 (EN 636-3) 9 - 40 mm: 3 (EN 636-3S) 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 2+	
5.	Harmonized standard	EN 13986:2004+A1:2015	
	Notified body	OTC Bulgaria Ltd. (notified body 2787) Certificate No: 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 12,0-15,0mm 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	
	Airborne 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_b)	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	
	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 identified above.

Signed by:

Haifeng Ma, Head of Quality Control Department
name and function

天马绿建(南通)木结构科技有限公司
Nantong, May 10,
Place and date of issue
signature