



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.
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Declaration of Performance

1.	Unique Identification code of product type	Birch Plywood, coated, based on urea-formaldehyde resin
2.	Intended use(s): Technical class(es): Thickness range:	Plywood for internal use as a structural/non-structural component in humid conditions 3 - 8 mm: 2 (EN 636-2) 9 - 35 mm: 2 (EN 636-2S) 3 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 №: VCP-12112, valid till 14.03.2027.

Essential characteristics (acc. to table ZA. 1.1 in annex ZA of the EN 13986:2004+A1:2015)		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 40/30 12,0 - 18,0 mm F 40/30 21,0 - 40,0 mm F 40/30	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 80/35 12,0 - 18,0 mm E 80/50 21,0 - 40,0 mm E 80/50	
Characteristic strength values in bending $f_{m,05}$ (0/90) ($f_{m,0}/f_{m,90}$)	N/mm ²	5,0 - 9,0 mm 40/30 12,0 - 18,0 mm 40/30 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 16/15 12,0 - 18,0 mm 16/15 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 8000/3000 12,0 - 18,0 mm 8000/5000 21,0 - 40,0 mm 8000/5000	
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 4000/2400 12,0 - 18,0 mm 4000/4000 21,0 - 40,0 mm 4000/4000	
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	
Airbone 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_n)	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	2
	Internal bond	N/mm ²	NPD
	Swelling thickness	%	NPD
	Moisture resistance	class	2
	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

