

Declaration of Performance

1.	Unique Identification code of product type	Birch Plywood, uncoated, 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 dry conditions 3 - 8 mm: 1 (EN 636-1) 9 - 35 mm: 1 (EN 636-1S) 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.	
6.	Declared performances		
		Essential characteristics	Performance
	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
	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_{ie})	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	1
	Internal bond	N/mm ²	NPD
	Swelling thickness	%	NPD
	Moisture resistance	class	1
	Mechanical (i.e. duration of load creep) - modification factors k_{mod} and k_{def}	value	NPD
	Biological	use class	NPD

EN 13986:2004
+A1:2015

*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

Nantong, May 10, 2023
place and date of issue

signature

