

Declaration of Performance

DOP-HF-V2



The undersigned, representing the following:

◆ **Manufacture:** FeiXian Pengbo Wood Co., Ltd.
Address: Feixian, Linyi City, Shandong Province, P.R.China

◆ Herewith declare that the products of Wood-Based-Panels: Hardwood-faced poplar core plywood (3.6mm; 5.2mm,9mm;12mm;15 mm;18 mm;25mm)X1220X2440mm

◆ Glue: Melamine E1.

are in conformity with the provisions of the EU Construction Products Directive (89/106/EEC CPD) and that standards referenced below have been applied:

- EN 13986:2004+A1:2015, Wood-based panels for use in construction-Characteristics, evaluation of conformity and marking
- EN 636:2012+A1:2015 Plywood – Specification
- EN 310, Wood-based panels-Determination of modulus of elasticity in bending and of bending strength
- EN 313-2, Plywood — Classification and terminology — Part 2: Terminology
- EN 314-1, Plywood – Bonding quality – Part 1: Test methods
- EN 314-2, Plywood – Bonding quality – Part 2: Requirements
- EN 323, Wood-based panels — Determination of density
- EN 717-1 & EN717-2, Wood-based panels- Determination of formaldehyde release-Part1 and Part 2
- EN12369-2, Wood-based panels- Characteristic Value for structural design- part 2: Plywood

◆ Name and address of Notified Certification Body:

ISTITUTO GIORDANO S.P.A.
Via Rossini, 247814 - Bellaria (RN), Italy
Phone: +39 0541 343030
Fax: +39 0541 345540
Email: istitutogiordano@giordano.it
Notified Certification Body: 0407
CE certificate number: 0407-CPR-971

◆ Description of the product: **Plywood EN636-2S for Internal use in Humid conditions.**

- **for internal use as structural components in dry conditions**
(dry conditions corresponding to service class 1 of EN 1995-1-1)
- **for internal (or protected external) use as structural components in humid conditions**
(humid conditions corresponding to service class 2 of EN 1995-1-1)
- **for internal use as non-structural components in dry conditions**
(dry conditions corresponding to service class 1 of EN 1995-1-1)
- **for internal (or protected external) uses as non-structural components in humid conditions** (humid conditions corresponding to service class 2 of EN1995-1-1)

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The plywood should be used or stored out of direct contact with the ground, soil or water.

The performance of the plywood will be compromised if suitable preservative treatment and/or relevant surface and edges coating is not applied and if the panels are not properly stored, maintained and installed. (according to EN636)

Please make sure the plywood was used or stored in proper way and in proper environment conditions.

-thicknesses (and number of plies)

Thickness mm	Number of plies
3.6	5
5.2	5
9	7
12	9
15	11
18	11
25	15

Declared Performance - Classification and Characteristic Value

Essential characteristics	Performance						
	Thickness (mm)						
	3.6	5.2	9	12	15	18	25
Bending Strength (N/mm ²)	7.8	11.2	16.3	25.7	32.4	37.3	49.8
$f_{m,0}$	8.9	12.6	19.8	29.1	35.2	41.2	55.2
$f_{m,90}$							
Bending Stiffness MOE (N/mm ²)	800	1100	2200	2700	3500	4200	5600
$E_{m,0}$	900	1400	2500	3300	3900	4800	6200
$E_{m,90}$							
Bonding Quality (N/mm ²)	-	-	1.02	1.01	1.07	1.05	1.18
Reaction to Fire Class excluding Floorings	-	-	D-s2, d0	D-s2, d0	D-s2, d0	D-s2, d0	D-s2, d0
Reaction to Fire Class Floorings	-	-	DFL-s1	DFL-s1	DFL-s1	DFL-s1	DFL-s1

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Essential characteristics	Performance
Impact resistance for Floor decking on joints or Roof decking on joints or Wall sheathing on studs (mm or J)	$\geq 45\text{KJ/mm}$
Release of Formaldehyde	$E1 \leq 3.5 \text{ mg/m}^2\text{h}$
Mean Density	550 Kg/m ³
Durability (Moisture Resistance)	Bonding Class 2- Covered exterior (EN314-2)
Specification/ Classification	EN636-2S Humid condition
Release (content) of pentachlorophenol (PCP)	No added to panels. $\leq 5\text{ppm}$
Water vapour permeability Wet cup μ	70
Water vapour permeability Dry cup μ	200
Thermal conductivity W/(m.K)	0.13
Sound absorption Frequency range 250Hz to 500Hz (α)	0.1
Sound absorption Frequency range 1000Hz to 2000Hz (α)	0.3
Biological Durability	Hazard Class 1 & Class 2 (EN335-3)

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Mechanical Durability (Characteristic value for structural design):

Referring to EN12369-2 table 2 & 3.

Service class and duration of load (ENV1995-1-1)

K_{mod} : (Retention in Strength)

	Services class	Load duration class				
		Permanent action	Long term Action	Medium term action	Short term action	Instantaneous action
Type EN636-1	1	0.60	0.70	0.80	0.90	1.10
Type EN636-2	2	0.60	0.70	0.80	0.90	1.10

K_{def} : (Retention in Stiffness)

	Services class		
	1	2	3
Type EN636-1	0.8	-	-
Type EN636-2	0.8	1.0	-

Signed for and on behalf of the manufacturer by:

FeiXian Pengbo Wood Co.,Ltd.

(Stamp)

Signature: Peng Qing Wei

Qualified: General Manager

Date: Jan 16 , 2017

