

**DECLARATION OF CONFORMITY, UPM PLYWOOD**

**No. UPM024CPR**

1. Unique identification code of the product-type:  
Structural spruce plywood, 12–30 mm
2. Intended uses:  
For internal use as a structural component in dry conditions, EN 636-1  
For protected external use as a structural component in humid conditions, EN 636-2
3. Manufacturer:  
WISA®  
UPM Plywood Oy  
P.O. Box 203  
FI-15141 Lahti, Finland  
[www.wisaplywood.com](http://www.wisaplywood.com)
4. Authorized representative  
UPM Wood Material (UK) Limited  
Station House Stamford New Road  
Altrincham  
WA14 1EP Cheshire  
United Kingdom
5. System of AVCP:  
AVCP system 1
- 6a. Harmonised standard:  
EN 13986:2004 + A1:2015

Notified body:

CATG Ltd No. 1245 has performed the initial inspection of the manufacturing plant and a factory production control and continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control 1245-CPR-5003A.

7. Declared performance:

| Essential characteristics          | Performance                          | Harmonised standard   |
|------------------------------------|--------------------------------------|-----------------------|
| Point load strength and stiffness  | NPD                                  | EN 13986:2004+A1:2015 |
| Racking resistance                 | Calculation according to EN 1995-1-1 |                       |
| Impact resistance                  | NPD                                  |                       |
| Water vapour permeability $\mu$    | Wet 66, dry 190                      |                       |
|                                    | Mean density 460 kg/m <sup>3</sup>   |                       |
| Release of formaldehyde            | E1                                   |                       |
| Content of pentachlorophenol (PCP) | ≤ 5 ppm                              |                       |
| Airborne sound insulation          | NPD                                  |                       |
| Sound absorption $\alpha$          | 0,10/0,30                            |                       |
| Thermal conductivity $\lambda$     | 0,13 W/mK                            |                       |
| Embedment strength                 | Calculation according to EN 1995-1-1 |                       |
| Air permeability                   | NPD                                  |                       |
| Bonding quality (acc. to EN 314-2) | Class 3                              |                       |
| Biological durability              | Use class 2                          |                       |

| Reaction to fire                 |                        |  |                                  |
|----------------------------------|------------------------|--|----------------------------------|
| End use condition <sup>(6)</sup> | Minimum thickness (mm) | Class <sup>(7)</sup> (excluding floorings) | Class <sup>(8)</sup> (floorings) |
| Any <sup>(5)</sup>               | 12                     | B-s1, d0                                   | B <sub>fl</sub> -s1              |

<sup>(5)</sup>

Veneered, phenol- and melamine-faced panels are included for class excl. floorings.

<sup>(6)</sup> A vapour barrier with a thickness up to 0,4 mm and a mass up to 200 g/m<sup>2</sup> can be mounted in between the wood-based panel and a substrate if there are no air gaps in between.

<sup>(7)</sup> Class as provided for in Table 1 of the Annex to Decision 2000/147/EC.

<sup>(8)</sup> Class as provided for in Table 2 of the Annex to Decision 2000/147/EC.

|   |                     |             |      |      |      |      |      |      |   |
|---|---------------------|-------------|------|------|------|------|------|------|---|
| Nominal thickness                                       |                     | 12          | 15   | 18   | 21   | 24   | 27   | 30   | Harmonised standard EN 13986:2004+A1:2015 |
| Number of plies   |                     | 5           | 5    | 7    | 7    | 9    | 9    | 11   |   |
| Essential characteristics                               |                     | Performance |      |      |      |      |      |      |   |
| Characteristic bending strength N/mm <sup>2</sup>       | $f_{m \parallel}$   | 22,8        | 23   | 20,4 | 18,9 | 19,4 | 19,3 | 18,7 |   |
|   | $f_{m \perp}$       | 11,4        | 11,2 | 13   | 14,3 | 13,1 | 13,8 | 13,3 |   |
| Characteristic compression strength N/mm <sup>2</sup>   | $f_{c \parallel}$   | 17,4        | 17,5 | 16,7 | 16,0 | 17,0 | 15,5 | 17,2 |   |
|   | $f_{c \perp}$       | 12,6        | 12,5 | 13,3 | 14,0 | 13,0 | 14,5 | 12,8 |   |
| Characteristic tension strength N/mm <sup>2</sup>       | $f_{t \parallel}$   | 10,5        | 10,5 | 10   | 9,6  | 10,2 | 9,3  | 10,3 |   |
|   | $f_{t \perp}$       | 7,5         | 7,5  | 8    | 8,4  | 7,8  | 8,7  | 7,7  |   |
| Mean MOE in bending N/mm <sup>2</sup>                   | $E_{m \parallel}$   | 9123        | 9201 | 8170 | 7547 | 7751 | 7702 | 7479 |   |
|   | $E_{m \perp}$       | 2876        | 2799 | 3830 | 4453 | 4249 | 4298 | 4521 |   |
| Mean MOE in compression and tension N/mm <sup>2</sup>   | $E_{t,c \parallel}$ | 6968        | 7013 | 6682 | 6408 | 6800 | 6182 | 6868 |   |
|   | $E_{t,c \perp}$     | 5032        | 4987 | 5318 | 5592 | 5200 | 5818 | 5132 |   |
| Char. panel shear N/mm <sup>2</sup>                     | $f_{v \parallel}$   | 3,5         |      | 3,5  |      |      |      |      |   |
|   | $f_{v \perp}$       | 3,5         |      | 3,5  |      |      |      |      |   |
| Mean MOR in panel shear N/mm <sup>2</sup>               | $f_{r \parallel}$   | 1           |      | 1    |      |      |      |      |   |
|   | $f_{r \perp}$       | 0,6         |      | 0,8  |      |      |      |      |   |
| Mean MOR in panel shear N/mm <sup>2</sup>               | $G_{v \parallel}$   | 350         |      | 350  |      |      |      |      |   |
|   | $G_{v \perp}$       | 350         |      | 350  |      |      |      |      |   |
| Mean MOR in planar shear N/mm <sup>2</sup>              | $G_{r \parallel}$   | 50          |      | 50   |      |      |      |      |   |
|   | $G_{r \perp}$       | 30          |      | 30   |      |      |      |      |   |
| Strength and stiffness under point load                 | NPD                 |             |      |      |      |      |      |      |   |
| Impact resistance                                       | NPD                 |             |      |      |      |      |      |      |   |
| $k_{mod}$ and $k_{def}$ values according to EN 1995-1-1 |                     |             |      |      |      |      |      |      |   |

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Lahti, Finland, June 19th, 2023



Riku Härkönen, Product Manager  
UPM Plywood