

DECLARATION OF PERFORMANCE, UPM PLYWOOD

No. UPM028CPR

1. Unique identification code of the product-type:
Structural spruce plywood, uncoated or coated, 15 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
For external use as a structural component with coating and edge sealing, EN 636-3
3. Manufacturer:
WISA®
UPM Plywood Oy
P.O. Box 203
FI-15141 Lahti, Finland
www.wisaplywood.com
5. System of AVCP:
AVCP system 2+
- 6a. Harmonized standard:
EN 13986:2004 + A1:2015

Notified body:

Inspecta Sertifiointi Oy No. 0416 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 certificates of conformity of the factory production control 0416-CPR-7110.



The Biofore
Company

7. Declared performance:

| Essential characteristics | Performance | Harmonized 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 μ | Wet 66, dry 190 | |
| | Mean density 480 kg/m ³ | |
| Release of formaldehyde | E1 | |
| Content of pentachlorophenol (PCP) | ≤ 5 ppm | |
| Airborne sound insulation | NPD | |
| Sound absorption α | 0,10/0,30 | |
| Thermal conductivity λ | 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 ⁽⁶⁾ | Minimum thickness (mm) | Class ⁽⁷⁾ (excluding floorings) | Class ⁽⁸⁾ (floorings) |
| Without an air gap behind the wood-based panel ^{(1), (2), (5)} | 15 | D-s2, d0 | D _{fl} -s1 |
| With a closed or an open air gap not more than 22 mm behind the wood-based panel ^{(3), (5)} | 15 | D-s2, d2 | - |
| With a closed air gap behind the wood-based panel ^{(4), (5)} | 15 | D-s2, d1 | D _{fl} -s1 |

⁽¹⁾ Mounted without an air gap directly against class A1 or A2-s1, d0 products with minimum density 10kg/m³ or at least class D-s2, d2.

⁽²⁾ A substrate of cellulose insulation material of at least class E may be included if mounted directly against the wood-based panel, but not for floorings.

⁽³⁾ Mounted with an air gap behind. The reverse face of the cavity shall be at least class A2-s1, d0 products with minimum density 10 kg/m³.

⁽⁴⁾ Mounted with an air gap behind. The reverse face of the cavity shall be at least class D-s2, d2 products with minimum density 400 kg/m³.

⁽⁵⁾ Veneered, phenol- and melamine-faced panels are included for class excl. floorings.

⁽⁶⁾ A vapour barrier with a thickness up to 0,4 mm and a mass up to 200 g/m² can be mounted in between the wood-based panel and a substrate if there are no air gaps in between.

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

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



The Biofore
Company

| | | | |
|---|------|-------------|---|
| Nominal thickness | | 15 | |
| Number of plies | | 8 | |
| Essential characteristics | | Performance | Harmonized standard EN 13986:2004+A1:2015 |
| Characteristic bending strength N/mm ² | fm | 19,5 | |
| | fm | 13,5 | |
| Characteristic compression strength N/mm ² | fc | 14,4 | |
| | fc | 9,4 | |
| Characteristic tension strength N/mm ² | ft | 8,6 | |
| | ft | 9,4 | |
| Mean MOE in bending N/mm ² | Em | 7794 | |
| | Em | 4206 | |
| Mean MOE in compression and tension N/mm ² | Et,c | 5766 | |
| | Et,c | 6234 | |
| Char. panel shear N/mm ² | fv | 3,5 | |
| | fv | 3,5 | |
| Char. Planar shear N/mm ² | fr | 0,65 | |
| | fr | 0,9 | |
| Mean MOR in panel shear N/mm ² | Gv | 350 | |
| | Gv | 350 | |
| Mean MOR in planar shear N/mm ² | Gr | 35 | |
| | Gr | 46 | |
| Strength and stiffness under point load | NPD | | |
| Impact resistance | NPD | | |
| kmod and kdef 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, September 1, 2020

Riku Härkönen, Product Manager
UPM Plywood