

DECLARATION OF PERFORMANCE, UPM PLYWOOD

No. UPM001CPR

1. Unique identification code of the product-type:
Structural spruce plywood, uncoated or coated, 9–50 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-Kymmene Wood Oy
P.O. Box 203
FI-15141 Lahti, Finland
www.wisaplywood.com
5. System of AVCP:
AVCP system 2+
- 6a. Harmonised 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 certificate of conformity of the factory production control 0416-CPR-7110.

7. Declared performance:

| Essential characteristics | Performance | Harmonised standard |
|------------------------------------|--------------------------------------|-----------------------|
| Reaction to fire | D-s2,d0 | EN 13986:2004+A1:2015 |
| | Dfl-s1 (flooring) | |
| Water vapour permeability μ | wet 66, dry 190 (uncoated) | |
| Release of formaldehyde | E1 | |
| Content of pentachlorophenol (PCP) | Does not contain | |
| Airborne sound insulation | NPD | |
| Sound absorption α | 0,10/0,30 | |
| Thermal conductivity λ | 0,13 | |
| Bonding quality (acc. to EN 314-2) | Class 3 | |
| Biological durability | Use class 2 (uncoated) | |
| | Use class 3 (coated and edge sealed) | |
| Mean density kg/m ³ | 460 | |

7. Declared performance

| Nominal thickness | | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 40 | 50 | |
|---|--------------------|-------------|------|------|------|------|------|------|------|------|------|---|
| Number of plies | | 3 | 5 | 5 | 7 | 7 | 9 | 9 | 11 | 13 | 17 | |
| Essential characteristics | | Performance | | | | | | | | | | |
| Characteristic bending strength N/mm ² | f _m | 28,7 | 22,8 | 23,0 | 20,4 | 18,9 | 19,4 | 19,3 | 18,7 | 16,8 | 15,6 | Harmonised standard EN 13986:2004+A1:2015 |
| | f _{m⊥} | 3,8 | 11,4 | 11,2 | 13,0 | 14,3 | 13,1 | 13,8 | 13,3 | 14,9 | 15,9 | |
| Characteristic compression strength N/mm ² | f _c | 19,3 | 17,4 | 17,5 | 16,7 | 16,0 | 17,0 | 15,5 | 17,2 | 15,5 | 14,7 | |
| | f _{c⊥} | 10,7 | 12,6 | 12,5 | 13,3 | 14,0 | 13,0 | 14,5 | 12,8 | 14,5 | 15,3 | |
| Characteristic tension strength N/mm ² | f _t | 11,6 | 10,5 | 10,5 | 10,0 | 9,6 | 10,2 | 9,3 | 10,3 | 9,3 | 8,8 | |
| | f _{t⊥} | 6,4 | 7,5 | 7,5 | 8,0 | 8,4 | 7,8 | 8,7 | 7,7 | 8,7 | 9,2 | |
| Mean MOE in bending N/mm ² | E _m | 1146 1 | 9123 | 9201 | 8170 | 7547 | 7751 | 7702 | 7479 | 6723 | 6227 | |
| | E _{m⊥} | 539 | 2876 | 2799 | 3830 | 4453 | 4249 | 4298 | 4521 | 5277 | 5773 | |
| Mean MOE in compression and tension N/mm ² | E _{t,c} | 7733 | 6968 | 7013 | 6682 | 6408 | 6800 | 6182 | 6868 | 6211 | 5880 | |
| | E _{t,c⊥} | 4267 | 5032 | 4987 | 5318 | 5592 | 5200 | 5818 | 5132 | 5789 | 6120 | |
| Char. panel shear N/mm ² | f _v | 3,5 | 3,5 | | | | | 3,5 | | | | |
| | f _{v⊥} | 3,5 | 3,5 | | | | | 3,5 | | | | |
| Char. Planar shear N/mm ² | f _r | 1 | 1 | | | | | 1 | | | | |
| | f _{r⊥} | NPD | 0,6 | | | | | 0,8 | | | | |
| Mean MOR in panel shear N/mm ² | G _v | 350 | 350 | | | | | 350 | | | | |
| | G _{v⊥} | 350 | 350 | | | | | 350 | | | | |
| Mean MOR in planar shear N/mm ² | G _r | 45 | 50 | | | | | 50 | | | | |
| | G _{r⊥} | NPD | 30 | | | | | 40 | | | | |
| 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, November 11th, 2016



Riku Härkönen, Product Manager
UPM Plywood