

DECLARATION OF PERFORMANCE, UPM PLYWOOD

No. **UPM003CPR**

1. Unique identification code of the product-type:
Structural spruce plywood, uncoated, 12–25 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
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 | |
| Mean density kg/m ³ | 450 | |

7. Declared performance

| Nominal thickness | | 12 | 14 | 18 | 21 | 25 |
|---|--------------------|-------------|-------|------|------|------|
| Number of plies | | 4 | 4 | 5 | 6 | 7 |
| Essential characteristics | | Performance | | | | |
| Characteristic bending strength N/mm ² | $f_{m\parallel}$ | 23,2 | 25,7 | 23,1 | 21,5 | 20,7 |
| | $f_{m\perp}$ | 5,8 | 8,2 | 11,1 | 12,3 | 12,7 |
| Characteristic compression strength N/mm ² | $f_{c\parallel}$ | 11,7 | 14,3 | 17,6 | 19,7 | 16,8 |
| | $f_{c\perp}$ | 13,2 | 15,7 | 12,4 | 10,3 | 13,2 |
| Characteristic tension strength N/mm ² | $f_{t\parallel}$ | 7,0 | 8,6 | 10,6 | 11,8 | 10,1 |
| | $f_{t\perp}$ | 7,9 | 9,4 | 7,4 | 6,2 | 7,9 |
| Mean MOE in bending N/mm ² | $E_{m\parallel}$ | 9274 | 10296 | 9237 | 8615 | 8277 |
| | $E_{m\perp}$ | 1027 | 1704 | 2763 | 3385 | 3723 |
| Mean MOE in compression and tension N/mm ² | $E_{t,c\parallel}$ | 4678 | 5739 | 7034 | 7886 | 6732 |
| | $E_{t,c\perp}$ | 5288 | 6261 | 4966 | 4114 | 5268 |
| Char. panel shear N/mm ² | $f_{v\parallel}$ | 3,5 | | 3,5 | | 3,5 |
| | $f_{v\perp}$ | 3,5 | | 3,5 | | 3,5 |
| Char. Planar shear N/mm ² | $f_{r\parallel}$ | 0,7 | | 0,8 | | 0,8 |
| | $f_{r\perp}$ | NPD | | 0,5 | | 0,6 |
| Mean MOR in panel shear N/mm ² | $G_{v\parallel}$ | 350 | | 350 | | 350 |
| | $G_{v\perp}$ | 350 | | 350 | | 350 |
| Mean MOR in planar shear N/mm ² | $G_{r\parallel}$ | 33 | | 51 | | 52 |
| | $G_{r\perp}$ | NPD | | 25 | | 37 |
| Strength and stiffness under point load | NPD | | | | | |
| Impact resistance | NPD | | | | | |
| k_{mod} and k_{def} values according to EN 1995-1-1 | | | | | | |

Harmonised standard EN 13986:2004+A1:2015

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, February 1st, 2017



Riku Härkönen, Product Manager
UPM Plywood