

- 1. Unique identification code of the product-type:**
Kwellick Oy structural birch plywood. Uncoated or overlaid. Phenol formaldehyde adhesive (exterior gluing quality)
- 2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):**
Kwellick Oy structural birch plywood. Uncoated or overlaid. Phenol formaldehyde adhesive (exterior gluing quality)
- 3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:**
Structural elements in internal or external applications in construction
 - EN 636-2 S. For internal structural use in dry conditions. For internal or protected external use in humid conditions.
 - EN 636-3 S. For internal structural use in dry conditions. For internal or protected external use in humid conditions. For external structural use.
- 4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant Article 11(5):**
Kwellick Oy,
Asemakatu 38-40,
FI-38210 Sastamala, Finland
www.finevaply.com
- 6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:**
AVCP System 2+
- 7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:**

VTT Expert Services Ltd, Notified production control certification body No. 0809, performed initial inspection of the manufacturing plant and of factory production control and performs continuous surveillance, assessment and evaluation of factory production control under system 2+ and issued the certificate of conformity of the factory production control:

0809-CPD-0762

9. Declared performance

Harmonised technical specification EN 13986:2004

Essential characteristics	PERFORMANCE														
	Sanded birch plywood														
	Nominal thickness, mm														
	4	6,5	9	12	15	18	21	24	27	30	35	40	45	50	
Strength and stiffness for structural use:	Number of plies														
	3	5	7	9	11	13	15	17	19	21	25	29	32	35	
Characteristic bending strength (N/mm ²)		65,9	50,9	45,6	42,9	41,3	40,2	39,4	38,9	38,4	38,1	37,6	37,2	37,0	36,8
	⊥	10,6	29,0	32,1	33,2	33,8	34,1	34,3	34,4	34,5	34,6	34,7	34,7	34,8	34,8
Mean modulus of elasticity in bending (N/mm ²)		16471	12737	11395	10719	10316	10048	9858	9717	9607	9519	9389	9296	9243	9198
	⊥	1029	4763	6105	6781	7184	7452	7642	7783	7893	7981	8111	8204	8257	8302
Characteristic compression strength (N/mm ²)		31,8	29,3	28,3	27,7	27,4	27,2	27,0	26,9	26,8	26,7	26,6	26,5	25,6	26,4
	⊥	20,2	22,8	23,7	24,3	24,6	24,8	25,0	25,1	25,2	25,3	25,4	25,5	26,4	25,6
Characteristic tension strength (N/mm ²)		45,8	42,2	40,8	40,0	39,5	39,2	39,0	38,8	38,7	38,5	38,4	38,3	37,0	38,1
	⊥	29,2	32,8	34,2	35,0	35,5	35,8	36,0	36,2	36,3	36,5	36,6	36,8	38,0	36,9
Mean modulus of elasticity in compression/tension (N/mm ²)		10694	9844	9511	9333	9223	9148	9093	9052	9019	8993	8953	8925	8631	8895
	⊥	6806	7656	7989	8167	8277	8352	8407	8448	8481	8507	8547	8575	8869	8605
Characteristic panel shear strength for all thicknesses (N/mm ²)		9,5													
	⊥	9,5													
Mean modulus of rigidity in panel shear for all thicknesses (N/mm ²)		620													
	⊥	620													
Characteristic planar shear strength (N/mm ²)		2,77	3,20	2,68	2,78	2,62	2,67	2,59	2,62	2,57	2,59	2,57	2,56	2,55	2,54
	⊥	-	1,78	2,35	2,22	2,39	2,34	2,41	2,39	2,43	2,41	2,43	2,44	2,47	2,46
Mean modulus of rigidity in planar shear (N/mm ²)		169	199	206	207	207	206	206	206	205	205	204	204	192	203
	⊥	-	123	155	170	178	183	186	189	190	192	193	195	208	196

|| = parallel to the face grain

⊥ = perpendicular to the face grain

Essential characteristics	PERFORMANCE			
Bonding quality	Class 3 (exterior)			
Release of formaldehyde	E1			
Reaction to fire	End use condition	Minimum thickness (mm)	Class (excluding floorings)	Class (floorings)
	Without an air gap behind the panel	9	D-s2, d0	D _{FL} -s1
	With a closed or an open air gap not more than 22 mm behind the panel	9	D-s2, d2	-
	With a closed air gap behind the panel	15	D-s2, d1	D _{FL} -s1
	With an open air gap behind the panel	18	D-s2, d0	D _{FL} -s1
	Any	3	E	E _{FL}
Water vapour permeability	Mean density	Wet cup	Dry cup	
	680 kg/m ³	88 μ	218 μ	
Airborne sound insulation	NPD			
Sound absorption	0,10 (250 Hz - 500 Hz) 0,30 (1000 Hz - 2000 Hz)			
Thermal conductivity	0,17 W/(m K)			
Impact resistance	NPD			
Strength and stiffness under point load	NPD			

		Service class	Permanent action	Long term action	Medium term action	Short term action	Instantaneous action
		Mechanical durability (EN 1995-1-1)	k _{mod}	1	0,60	0,70	0,80
2	0,60			0,70	0,80	0,90	1,10
3	0,50			0,55	0,65	0,70	0,90
	k _{def}	Service class 1				0,80	
		Service class 2				1,00	
		Service class 3				2,50	
Biological durability (EN 335)	Uncoated or overlaid					Use class 2	
	Overlaid and edges protected					Use class 3	

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Sergey Bryzgalov,
Chairman of the Board

Sastamala 25.6.2013

A handwritten signature in black ink, appearing to read 'Sergey Bryzgalov', is written above a horizontal dotted line.