

Declaration of Performance

No. EPW-DoP-1003

Product type	Birch plywood
Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4)	ESTPLY BIRCH uncoated, phenolic-formaldehyde resin ESTPLY FORM coated, phenolic-formaldehyde resin ESTPLY DECK coated, phenolic-formaldehyde resin
Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification as foreseen by the manufacturer	EN 636-1 birch plywood. For internal use as a structural component in dry conditions. EN 636-2 birch plywood. For internal use as structural component in humid conditions and for protected external use. EN 636-3 birch plywood. For external use as a structural component with coating and edge sealing.
Name, registered trade name or registered trademark and contact address of the manufacturer as required under Article 11 (5)	ESTPLY Estonian Plywood AS Kase, Viruvere, 48435 Jõgeva vald, Estonia
Systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V	EN 13986:2004+A1:2015 AVCP system 2+
In case of the declaration of performance concerning a construction, product covered by a harmonized standard	Notified product certification body KIWA No. 1336 carried out: • an assessment of the performance of the construction product on the basis of testing (including sampling), calculation, tabulated values or descriptive documentation of the product • initial inspection of the manufacturing plant and of factory production control • continuing surveillance, assessment and evaluation of factory production control and issued the certificate of constancy of performance of the product

parallel to face grain ⊥ perpendicular to face grain		Declared performance																
					Sanded birch plywood, nominal thickness, mm													
					4	6,5	9	12	15	18	21	24	27	30	35	40	45	50
					Number of plies													
Essential characteristics		Standard	Unit	3	5	7	9	11	13	15	17	19	21	25	29	32	35	
Density		EN 323	kg/m³	Mean 680 kg/m³														
Characteristic bending strength		EN 789	N/mm²	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		EN 789	N/mm²	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	
Bonding quality Release of formaldehyde		EN 314-2	class	Class 3														
	⊥	EN 717-1	class	E0.5														
Water vapour permeability		EN 13986+A1	μ	NPD														
Sound absorption		EN 13986+A1	coefficient	NPD														
Thermal conductivity		EN 13986+A1	W m -1 K -1	NPD														
Biological durability		EN 335	class	Use class 2 (uncoated)							Use class 3 (coated and edge sealed)							
Mechanical durability		EN 1995-1-1	K _{mod} K _{def}	K _{mod} and K _{def} values according to EN 1995-1-1														
Reaction to fire EN 13986+A; EN 13501-1																		
End-use condition									Minimum thickness			Class, excluding flooring			Class, flooring			
Without an air gap behind the wood-based panel									9			D-s2,d0			Dfl-s1			
With a closed or an open air gap not more than 22 mm behind the wood-based panel									9			D-s2,d0			-			
With a closed air gap behind the wood-based panel									15			D-s2,d1			Dfl-s1			
With an open air gap behind the wood-based panel									18			D-s2,d0			Dfl-s1			