

SUPPLIER'S DECLARATION OF CONFORMITY

Product identification: **BRX** (pine face)

The declaration was issued by EB Hungary Invest Kft.

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Place of production: South America

Production year: 2023

Product name: eucalyptus plywood



face



back

face	C Grade not sanded. Compliant with PS1 grading standards
back	D Grade not sanded. Compliant with PS1 construction standards
species	100% Eucalyptus Grandis
dimensions	1.22m x 2.44m

Product destination (intended use):

Construction in general, surface finishes, molding/formwork, packing/transport and carpentry/cabinetmaking/upholstered furniture.

Harmonised standards: EN 13986:2004+A1:2015, EN 636:2012+A1:2015

Period of validity of the declaration: This declaration is valid until withdrawn.

Present user information has been compiled by EB Hungary Invest Kft. on the basis of the information provided by the manufacturer.

Budapest, 24.10.2023

DECLARATION OF PERFORMANCE

Product Identification

Product Type	Technical Class	Intended Use	AVCP (*)
Pine and/or Eucalyptus Plywood for Structural Use in Exterior (***) Conditions (EN 636 – 3 S)	EN 636 – 3 – S (***) (structural)	Load-bearing structural panels in dry covered service conditions (***) (EN 1995-1-1 - Service Class 1 or 2) for FLOORING or ROOFING.	2+

(*) Assessment and Verification of Constancy of Performance system according to Annex V of regulation (EU) No 305/2011

(**) Batch identification: 7-digit number on bundle

(***) The conditions of Service Class 3 may correspond to the biological Hazard Class 3 to EN 335, for which this product cannot be used without further treatment and/or appropriate design.

Notified Body Reference

Notified Body	Tasks performed for AVCP
Element Materials Technology Rotterdam B.V. Zekeringstraat 33 - 1014 BV Amsterdam - Netherlands	Initial inspection of factory Continuous Surveillance Certification of Factory Production Control

Declared Performance

The declared properties of the product are given in the table overleaf, based on the following Harmonised Technical Specifications:

EN 13986:2004+A1:2015 – Wood-based panels for use in construction – Characteristics, evaluation of conformity and marking

EN 636:2012+A1:2015 – Plywood - Specifications

The performance of the product identified is in conformity with the declared performance.

This declaration of performance is issued under the sole responsibility of the manufacturer identified above.

Essential Characteristics			Performance for indicated Panel Thickness (mm)					
			9	12	15	18	20	21 - 22
Panel Layup ¹⁾			PPP PEP	PPPP PEEP	PPPPP PEPEP PEEEP	PPPPP PPEPP PEPEP PEEEP	PPPPP PPEPP PEPEP PEEEP	PPPPP PPEPP PEPEP PEEEP
Characteristic Strength ^{2) 3)}								
Bending – parallel	$f_{m,0,k}$	(N/mm ²)	20.0	20.0	15.0	15.0	15.0	15.0
Bending – perpendicular	$f_{m,90,k}$	(N/mm ²)	3.0	3.0	5.0	5.0	5.0	5.0
Compression	$f_{c,0,k}$	(N/mm ²)	NPD	NPD	NPD	NPD	NPD	NPD
Tension	$f_{t,0,k}$	(N/mm ²)	NPD	NPD	NPD	NPD	NPD	NPD
Panel Shear	$f_{v,k}$	(N/mm ²)	3.0	3.0	3.0	3.0	3.0	3.0
Planar Shear	$f_{r,k}$	(N/mm ²)	0.5	0.5	0.5	0.5	0.5	0.5
Mean Stiffness (MOE) ⁴⁾								
Bending – parallel	$E_{m,0}$	(N/mm ²)	4 000	4 000	4 000	3 500	3 500	3 500
Bending – perpendicular	$E_{m,90}$	(N/mm ²)	500	500	1 000	1 000	1 000	1 000
Compression	$E_{c,0}$	(N/mm ²)	NPD	NPD	NPD	NPD	NPD	NPD
Tension	$E_{t,0}$	(N/mm ²)	NPD	NPD	NPD	NPD	NPD	NPD
Panel Shear	G_v	(N/mm ²)	300	300	300	300	300	300
Planar Shear	G_r	(N/mm ²)	20	20	20	20	20	20
Density								
Characteristic Density ²⁾	ρ_k	(kg/m ³)	410	410	410	410	410	410
Mean Density ⁵⁾	ρ_{mean}	(kg/m ³)	450	450	450	450	450	450
Bonding quality / durability			Bonding Class 3					
Biological Durability			Hazard Class 2					
Reaction to fire class			D-s2, d0					
Release of formaldehyde class			E1					
Water vapour permeability μ								
Wet cup			70	70	70	70	70	70
Dry cup			200	200	200	200	200	200
Airborne sound insulation R			22.20	23.80	25.10	26.10	26.70	26.70
Sound absorption α								
Frequency range 250Hz to 500 Hz			0.10	0.10	0.10	0.10	0.10	0.10
Frequency range 1000Hz to 2000 Hz			0.30	0.30	0.30	0.30	0.30	0.30
Thermal Conductivity λ (W/m.K)			0.13	0.13	0.13	0.13	0.13	0.13
Release (Content) of Pentachlorophenol (PCP)			< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm	< 5 ppm

1) P = Pine ; E = Eucalyptus

2) "Characteristic" = lower 5th percentile calculated as defined in EN 636:2012+A1:2015

3) The characteristic values are as specified in EN 12369-2:2004 and shall be modified for the given Service Class as described in EN 1995-1-1 using the relevant k_{mod} and k_{def} modification factors

4) The characteristic value for Stiffness should be taken as 0.8 times the mean value

5) The mean density for design should be taken as 1.1 times the characteristic value

Performance for Use in FLOORING or ROOFING Applications are declared in the table Overleaf

Essential Characteristics			Performance for indicated Panel Thickness (mm)					
			9	12	15	18	20	21 - 22
Panel Layup ¹⁾				PPPP PEEP	PPPPP PEPEP PEEEP	PPPPP PPEPP PEPEP PEEEP	PPPPP PPEPP PEPEP PEEEP	PPPPP PPEPP PEPEP PEEEP
Reaction to fire class for Flooring								
Roofing – Cat. of Use H – spacing:				610mm	815mm	1220mm	1220mm	1220mm
Characteristic Point Load	$F_{max,k}$	(kN)		2.59	3.36	4.58	4.58	4.58
Mean Stiffness	R_{mean}	(kN)		107	109	77	77	77
Serviceability Point Load	$F_{ser,k}$	(kN)		1.81	2.35	3.20	3.20	3.20
Soft Body Impact Resistance Class				II	II	II	II	II
Flooring – Cat. of Use A – spacing:						500mm	500mm	500mm
Characteristic Point Load	$F_{max,k}$	(kN)		NPD	NPD	4.32	4.32	4.32
Mean Stiffness	R_{mean}	(kN)		NPD	NPD	328	328	328
Serviceability Point Load	$F_{ser,k}$	(kN)		NPD	NPD	3.02	3.02	3.02
Soft Body Impact Resistance Class				NPD	NPD	I	I	I
Racking Resistance for Walls				NPD	NPD	NPD	NPD	NPD
Soft Body Impact Resistance Class								
for Walls				NPD	NPD	NPD	NPD	NPD

1) P = Pine; E = Eucalyptus

NOTE: Panels used for Flooring or Roofing application shall have their short edge supported by the joists and their long edge either tongued & grooved or entirely supported by and fixed to a nogging or batten.