

Producers Declared Characteristics

Essential Characteristics			Performance for indicated Panel Thickness (mm)				
			12	15	18	21	22
Panel Layup ¹⁾			EEEE EPPE	EEEE EPEPE EEPEE	EEEEEE EEEE EPEPE EEPEE EPPPE	EEEEEEEE EEPEPEE EPPPEE	EEEEEEEE EEPEPEE EPPPEE
Characteristic Strength ^{2) 3)}							
Bending – parallel	$f_{m,0,k}$	(N/mm ²)	20.0	20.0	20.0	20.0	20.0
Bending – perpendicular	$f_{m,90,k}$	(N/mm ²)	10.0	10.0	10.0	10.0	10.0
Compression	$f_{c,0,k}$	(N/mm ²)	NPD	NPD	NPD	NPD	NPD
Tension	$f_{t,0,k}$	(N/mm ²)	NPD	NPD	NPD	NPD	NPD
Panel Shear	$f_{v,k}$	(N/mm ²)	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
Mean Stiffness (MOE) ⁴⁾							
Bending – parallel	$E_{m,0}$	(N/mm ²)	3000	3000	3000	3000	3000
Bending – perpendicular	$E_{m,90}$	(N/mm ²)	1000	1000	1000	1000	1000
Compression	$E_{c,0}$	(N/mm ²)	NPD	NPD	NPD	NPD	NPD
Tension	$E_{t,0}$	(N/mm ²)	NPD	NPD	NPD	NPD	NPD
Panel Shear	G_v	(N/mm ²)	300	300	300	300	300
Planar Shear	G_r	(N/mm ²)	20	20	20	20	20
Density							
Characteristic Density ²⁾	P_k	(kg/m ³)	430	430	430	430	430
Mean Density ⁵⁾	P_{mean}	(kg/m ³)	480	480	480	480	480
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
Dry cup			200	200	200	200	200
Airborne sound insulation R			23.80	25.10	26.10	27.00	27.30
Sound absorption α							
Frequency range 250Hz to 500 Hz			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
Thermal Conductivity λ (W/m.K)			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

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)				
	12	15	18	21	22
Panel Layup ¹⁾	EEEE EPPE	EEEE EPEPE EEPEE	EEEEEE EEEE EPEPE EEPEE EPPPE	EEEEEEE EEPEPEE EPPPPEE	EEEEEEE EEPEPEE EPPPPEE
Reaction to fire class for Flooring			D _{FL} -s1	D _{FL} -s1	D _{FL} -s1
Roofing – Cat. of Use H – spacing : 610 mm					
Characteristic Point Load $F_{max,k}$ (kN)	2.50	2.50	4.04	3.66	3.66
Mean Stiffness R_{mean} (kN)	165	165	322	408	408
Serviceability Point Load $F_{ser,k}$ (kN)	3.57	3.57	5.78	5.24	5.24
Soft Body Impact Resistance Class	I	I	I	I	I
Roofing – Cat. of Use H – spacing : 1220 mm					
Characteristic Point Load $F_{max,k}$ (kN)	NPD	NPD	4.04	4.04	4.04
Mean Stiffness R_{mean} (kN)	NPD	NPD	99	99	99
Serviceability Point Load $F_{ser,k}$ (kN)	NPD	NPD	5.78	5.78	5.78
Soft Body Impact Resistance Class	NPD	NPD	II	II	II
Flooring – Cat. of Use A – spacing : 500 mm					
Characteristic Point Load $F_{max,k}$ (kN)	NPD	NPD	4.04	3.66	3.66
Mean Stiffness R_{mean} (kN)	NPD	NPD	496	408	408
Serviceability Point Load $F_{ser,k}$ (kN)	NPD	NPD	5.78	5.24	5.24
Soft Body Impact Resistance Class	NPD	NPD	I	I	I
Flooring – Cat. of Use A – spacing : 610 mm					
Characteristic Point Load $F_{max,k}$ (kN)	NPD	NPD	NPD	3.66	3.66
Mean Stiffness R_{mean} (kN)	NPD	NPD	NPD	408	408
Serviceability Point Load $F_{ser,k}$ (kN)	NPD	NPD	NPD	5.24	5.24
Soft Body Impact Resistance Class	NPD	NPD	NPD	NPD	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 noggling or batten.