



Technical data

P4 Dfl – Natural / White

P4 particleboard in accordance with DIN EN 312, highly durable, suitable for load-bearing applications in dry conditions. Melamine-coated on one side.

Specification	Value	Unit	Test Standard
Nominal thickness	38	mm	EN 13986:2004

Reaction to fire

Fire behavior of floor coverings	Dfl-s1 (according to DIN EN 13501-1)		EN 13986:2004
Reaction to fire	D-s2, d0		EN 13986:2004

General Properties

Water vapour permeability	wet 15, dry 50		EN 13986:2004
Formaldehyde release class	E05		EN 13986:2004
Release (content) of pentachlorophenol (PCP)	< 3	mg/kg	EN 13986:2004
Sound absorption α Frequency range 250 to 500 Hz	0.1		EN 13986:2004
Sound absorption α Frequency range 1000 to 2000 Hz	0.25		EN 13986:2004
Thermal conductivity	0.12	W/(m-K)	EN 13986:2004

Durability

Internal bond (core material)	0.2	N/mm ²	EN 13986:2004
Swelling in thickness	14	%	EN 13986:2004

Characteristic Strength

Bending F_m	7.5	N/mm ²	EN 13986:2004
Tension F_t	5	N/mm ²	EN 13986:2004
Compression F_c	7.6	N/mm ²	EN 13986:2004
Panel shear F_v	4.4	N/mm ²	EN 13986:2004
Panel shear F_r	1.1	N/mm ²	EN 13986:2004

Characteristic Stiffness (MOE)

Bending E_m	2100	N/mm ²	EN 13986:2004
Tension E_t	1200	N/mm ²	EN 13986:2004
Compression E_c	1200	N/mm ²	EN 13986:2004
Panel shear G_v	600	N/mm ²	EN 13986:2004

Additional Properties

Bending strength (core material)	9	N/mm ²	EN 13986:2004
Modulus of elasticity (core material)	1500	N/mm ²	EN 13986:2004

General tolerances

Length and width tolerance	1	mm	EN 324
Squareness	1	mm/m	EN 324
Edge straightness	1.5	mm/m	EN 324
Thickness tolerance	0.3	mm	EN 324
Density tolerance	10	%	EN 323