



NORBORD Europe Ltd
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 Cowie
 Stirling
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 FK7 7BQ

DoP ref: **NP6DoPv4**

EN13986:2004 +A1:2015

1224

04

E1

P6

22 to 38mm

Structural use in dry conditions

Essential characteristics	Performance		
	Thickness (mm)		
	>20 to 25	>25 to 32	>32 to 40
Characteristic Strength (N/mm²)			
- Bending f_m	13.3	12.5	11.7
- Compression f_c	12.8	12.2	11.9
- Tension f_t	8.5	8.3	7.8
- Panel Shear f_v	6.8	6.5	6.0
- Planar shear f_r	1.7	1.7	1.7
Mean Stiffness (MOE) (N/mm²)			
- Tension E_t	2100	1900	1800
- Compression E_c	2100	1900	1800
- Bending E_m	3500	3300	3100
- Panel Shear G_v	1050	950	900
Characteristic strength under point load $F_{max,k}$ (kN) <i>(for floors and roofs)</i>	NPD	NPD	NPD
Mean stiffness under point load, R (N/mm) <i>(for floors and roofs)</i>	NPD	NPD	NPD
Characteristic serviceability under point load $F_{ser,k}$ (kN) <i>(for floors and roofs)</i>	NPD	NPD	NPD
Racking resistance <i>(for walls)</i>	NPD	NPD	NPD
Soft Body Impact resistance Floor/roofs Walls	NPD	NPD	NPD
Reaction to fire	D-s2,d0	D-s2,d0	D-s2,d0
Water vapour permeability μ	NPD	NPD	NPD
Release of formaldehyde	E1	E1	E1

Release (content) of pentachlorophenol (PCP)	≤5ppm	≤5ppm	≤5ppm	≤5ppm	
Airborne sound insulation (surface mass) (R)	NPD	NPD	NPD	NPD	
Sound absorption Frequency range 250Hz to 500Hz (α)	0.1	0.1	0.1	0.1	
Sound absorption Frequency range 1000Hz to 2000Hz (α)	0.25	0.25	0.25	0.25	
Thermal conductivity λ	NPD	NPD	NPD	NPD	
Durability					
Internal bond (N/mm²)	0.40	0.35	0.30	0.30	
Swelling in thickness (%)	15	15	14	14	
Mechanical (creep k_{def}) service class 1	1.5	1.5	1.5	1.5	
Mechanical (duration of load k_{mod})	Action Mode				
	Permanent	Long Term	Medium Term	Short Term	Instantaneous
Service class 1	0.4	0.5	0.7	0.9	1.1
Biological	Use Class 1				