UK CA					
West Fraser Europe Ltd					
Station Road					
Cowie					
Stirling					
Scotland					
FK7 7BQ					
DoP ref: NL.MDF.H_UKCA_DoPv3					
EN13986:2004 +A1:2015					
21					
E1					
L.MDF.H					
>9mm to 38mm					
Non-Structural use in Humid conditions					

Essential characteristics	Performance Thickness (mm)				
	>9 to 12	>12 to 19	>19 to 30	>30 to 45	
¹ Water vapour permeability μ	NPD	NPD	NPD	NPD	
Release of formaldehyde	E1	E1	E1	E1	
Release (content) of pentachlorophenol (PCP)	≤5ppm	≤5ppm	≤5ppm	≤5ppm	
² Airborne sound insulation (surface mass) R (dB)	NPD	NPD	NPD	NPD	
³ Sound absorption Frequency range 250Hz to 500Hz (α)	0.1	0.1	0.1	0.1	
³ Sound absorption Frequency range 1000Hz to 2000Hz (α)	0.2	0.2	0.2	0.2	
⁴ Thermal conductivity λ (W/m.k)	NPD	NPD	NPD	NPD	
Air Permeability V ₀ (m3/h)	NPD	NPD	NPD	NPD	
	Durability				
Internal bond (N/mm²)	0.45	0.45	0.45	0.40	
Swelling in thickness (%)	16	13	12	11	
Internal bond after cyclic test (N/mm²)	0.25	0.20	0.15	0.10	
Swelling in thickness after cyclic test (%)	16	15	15	15	
Biological		Use classes 1 & 2			

		Minimum thickness	Class (excluding floorings) ^g	Class (Flooring)h
⁵ Reaction to fire (see notes to table for field of application details and associated documentation references)	Without an air gap behind the panel abef	9	D-s2,d0	D _{fl} ,s1
	With a closed or open air gap ≤ 22mm behind the panel ^{cef}	9	D-s2,d2	-
	Closed air gap behind the panel def	15	D-s2,d0	D _{fl} ,s1
	With an open air gap behind the panel ^{def}	18	D-s2,d0	D _{fl} ,s1
	Any end use ef	3	F	Fe

- a Mounted without an air gap directly against class A1 or A2-s1, d0 products with minimum density 10kg/m³ or at least class D-s2, d2 products with minimum density 400 kg/m³.
- b A substrate of cellulose insulation material of at least class E may be included if mounted directly against the wood-based panel, but not for floorings.
- c Mounted with an air gap behind. The reverse face of the cavity shall be at least class A2-s1, d0 products with minimum density 10 kg/m^3 .
- d Mounted with an air gap behind. The reverse face of the cavity shall be at least class D-s2, d2 products with minimum density 400 kg/m³.
- e Veneered, phenol- and melamine-faced panels are included for class excl. floorings. fA vapour barrier with a thickness up to 0.4 mm and a mass up to 200 g/m^2 can be mounted in between the wood-based panel and a substrate if there are no air gaps in between.
- g Class Provided for in Table 1 of the Annex to decision 2000/147/EC h Class Provided for in Table 2 of the Annex to decision 2000/147/EC

NOTES TO TABLE

- 1 Taken from Table 9 of EN 13986:2004+A1
- 2 Calculated according to clause 5.10 of EN 13986:2004+A1
- 3 Taken from Table 10 of EN 13986:2004+A1
- 4 Taken from Table 11 of EN 13986:2004+A1
- 5 reaction to fire classes from Table 1 of Commission Decision 2003/43/EC of January 2003 (OJEU L13 of 18.1.2003) corrected by Corrigendum (OJEU L33 of 8.2.2003) and amended by Commission decision 2007/348/EC of May 2007 (OJEU L131 of 23-05-2007); also reproduced in Table 8 of EN 13986:2004+A1:2015 for wood-based panels installed according to CEN/TR 12872