



NORBORD Europe Ltd
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DoP ref: **NMDF.HDoPv1**

EN 13986:2004

04

E1

MDF.H

6mm to 38mm

Non-Structural use in Humid conditions

Essential characteristics	Performance							Harmonised technical specification		
	Thickness (mm)									
	>4 to 6	>6 to 9	>9 to 12	>12 to 19	>19 to 30	>30 to 45				
Reaction to fire	NPD	NPD	D-s2,d0	D-s2,d0	D-s2,d0	D-s2,d0				
Water vapour permeability μ	NPD	NPD	NPD	NPD	NPD	NPD				
Release of formaldehyde	E1	E1	E1	E1	E1	E1				
Release (content) of pentachlorophenol (PCP)	≤ 5 ppm	≤ 5 ppm	≤ 5 ppm	≤ 5 ppm	≤ 5 ppm	≤ 5 ppm				
Airborne sound insulation (surface mass) (R)	NPD	NPD	NPD	NPD	NPD	NPD				
Sound absorption Frequency range 250Hz to 500Hz (α)	0.1	0.1	0.1	0.1	0.1	0.1				
Sound absorption Frequency range 1000Hz to 2000Hz (α)	NPD	NPD	NPD	NPD	NPD	NPD				
Thermal conductivity λ	NPD	NPD	NPD	NPD	NPD	NPD				
Durability										
Internal bond (N/mm^2)	0.70	0.80	0.80	0.75	0.75	0.70				
Swelling in thickness (%)	18	12	10	8	7	7				
Internal bond after cyclic test (N/mm^2)	0.35	0.30	0.25	0.20	0.15	0.10				
Swelling in thickness after cyclic test (%)	25	19	16	15	15	15				
Moisture resistance Internal bond after boil test (%)	0.20	0.15	0.15	0.12	0.12	0.10				
Biological	Use classes 1 & 2									

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