DECLARATION OF PERFORMANCE

DoP Reference Number: - NP4LPDoPv5

Norbord Europe Ltd Station Road

Cowie

Stirling

FK7 7BQ

Unique Identification code of the product type*	Intended Use	Systems of AVCP	Notified Body	Harmonised standard	
P4 18mm*	Internal use as structural components in dry conditions	2+	2812	EN13986:2004 +A1:2015	
*The unique identification code of the product type is a combination of the technical class and the individual product's nominal thickness					

Declared performance (covering P4 18mm*)

Essential characteristics	Performance
	Thickness(mm)
	18mm 1200x0300mm T&G 2 edges
¹Characteristic Strength (N/mm²)	
- Bending f_m	12.5
- Compression f_c	11.1
- Tension f_t	7.9
- Panel Shear $f_{ m extsf{v}}$	6.1
- Planar shear f_r	1.6
¹Mean Stiffness (MOE) (N/mm²)	
- Tension <i>E_t</i>	1700
- Compression E _c	1700
- Bending E _m	2900
- Panel Shear <i>G_v</i>	830
Punching Shear Characteristic strength under point load F _{max, k} (kN) (for floors and roofs)	NPD
Punching Shear Mean stiffness under point load, R _{mean} (N/mm) (for floors and roofs)	NPD
Racking resistance (for walls) Characteristic Strength F _{Rd,max,k} (N)	NPD
Racking resistance (for walls) Mean Stiffness R _{mean} (N/mm)	NPD
Soft Body Impact resistance Floor/roofs Walls.	NPD
Embedment Strength f _h (N/mm2)	NPD

		Minimum thickness	Class (excluding floorings) ^g	Class (Flooring) ^h			
	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	-			
² Reaction to fire	Closed air gap behind the panel ^{def}	15	D-s2,d0	D _{fl} ,s1			
(see notes to table for field of application details and associated	With an open air gap behind the panel ^{def}	18	D-s2,d0	D _{fl} ,s1			
documentation references)	Any end use ^{ef}	3	E	E _{fl}			
	a -Mounted without an air gap directly against class A1 or A2-s1, d0 products with m density 10kg/m3 or at least class D-s2, d2 products with minimum density 400 kg/m b -A substrate of cellulose insulation material of at least class E may be included if m 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 of						

Water vapour permeability μ		NPD				
Release of formaldehyde		E1				
Release (content) of pentachlorophenol (PCP)		≤5ppm				
Airborne sound insulation (surface mass) R (dB)		NPD				
³ Sound absorption Frequency range 250Hz to 500Hz (α)		0.1				
³ Sound absorption Frequency range 1000Hz to 2000Hz (α)		0.25				
Thermal conductivity λ (W/m.K)		NPD				
Air Permeability V ₀ (m3/h)		NPD				
	Durability					
Internal bond (N/mm²)		0.35				
Swelling in thickness (%)		15				
⁴ Mechanical (creep k _{def}) Service class 1		2.25				
Mechanical (duration of load k _{mod})		Action Mode				
	Permanent	Long Term	Medium Term	Short Term	Instantaneous	
Service Class 1	0.30	0.45	0.65	0.85	1.1	
Biological		Use classes 1				

NOTES TO TABLE

1 Taken from EN 12369-1:2001

2 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 three of EN 13986:2004+A1:2015 for wood-based panels installed according to CEN/TR 12872

3 Taken from Table 10 of EN 13986:2004+A1:2015

4 Taken from Eurocode 5 EN 1995-1-1 2004+A2:2014

The performance of the product identified is in conformity with the declared performance.

This declaration of performance is issued in accordance with regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Nick Fedo

At: - Cowie, Scotland On: - 10-03-2020

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