

KC/QUAL/DOC/0087					
Created by:	L.Boyle	Date	30/06/2021		
Approved by:	T.Dell	Printed:	06/07/2021		
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DECLARATION OF PERFORMANCE

1. Product-type:

EN 312 P5 18 mm & 22 mm Particleboard (T&G Flooring)

2. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

Internal use as structural components in humid conditions

3. Name and contact address of the manufacturer :

Kronospan Limited Holyhead Road Chirk Wrexham LL14 5NT

4. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V of the CPR:

System 2+

5. Approved Body information:

BM TRADA Certification Chiltern House, Stocking Lane, Hughenden Valley, High Wycombe, Bucks HP14 4ND

FPC Certificate No.

1224-CPR-0034 Kronospan Limited

6. Declared performance

	Performance		
Essential characteristics	Thickness(mm)		
	>13 to 20	>20 to 25	
¹Characteristic strength (N/mm²)	13.3	11.7	
- Bending f_m - Compression f_c	11.8	10.3	
- Tension f_t	8.5	7.4	
- Panel Shear	6.5	5.9	
- Planar shear f_r	1.7	1.5	
¹Mean stiffness (MOE) (N/mm²)	1900	1800	
- Tension E _t			
Compression E _c	1900	1800	
- Bending E _m	3300	3000	
- Panel Shear G_{ν}	930	860	
Punching Shear Characteristic strength under point load F _{max} , _k (kN) (for floors and roofs)	NPD	NPD	
Punching Shear Mean stiffness under point load, R _{mean} (N/mm) (for floors and roofs)	NPD	NPD	



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Racking resistance (for walls) Characteristic Strength F _{Rd,max,k} (N),	NPD	NPD		
Racking resistance (for walls), Mean Stiffness R _{mean} (N/mm)	NPD	NPD		
Impact resistance (soft body) (Impact Class I or II (floors & roofs) or III for walls)	NPD	NPD		
Embedment strength f _h (N/mm²)	NPD	NPD		
² Water vapour permeability μ	NPD	NPD		
Release of formaldehyde (class E1 or E2)	E1	E1		
Release (content) of pentachlorophenol (PCP)	≤5ppm	≤5ppm		
³ Airborne sound insulation (surface mass) R (dB)	NPD	NPD		
⁴ Sound absorption factor Frequency range 250Hz to 500Hz (α)	0.1	0.1		
⁴ Sound absorption factor Frequency range 1000Hz to 2000Hz (α)	0.25	0.25		
⁵ Thermal conductivity(density) λ (W/mK)	NPD	NPD		
Air permeability V ₀ (m ³ /h)	NPD	NPD		
	Durability			
Internal bond (N/mm²)	0.45	0.4		
Swelling in thickness (%)	10	10		
Moisture resistance				
Internal bond after cyclic test (N/mm²)	0.22	0.2		
Moisture resistance Swelling in thickness after cyclic test (%)	12	11		
Durability				
Essential characteristics	>13 to 20	>20 to 25		
Moisture resistance Internal bond after boil test (N/mm2)	0.14	0.12		
⁶ Mechanical (creep factor k _{def}) service class 1	2.25	2.25		
⁶ Mechanical (creep factor k _{def}) service class 2	3	3		



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		Minimum thickness	Class (excluding floorings) ^g	Class (Floori	ng) ^h
	Without an air gap behind the panel abef	9	D-s2,d0	1	Ofi,s1
	With a closed or open air gap ≤ 22mm behind the panel ^{cef}	9	D-s2,d2		-
⁷ Reaction to fire	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	
(see notes to table for field of application details and associated documentation references)	Any end use ^{ef}	3	E	En	
-	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/m3. 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. f -A vapour barrier with a thickness up to 0,4 mm and a mass up to 200 g/m² 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				
6 Mechanical (duration of load factor k_{mod})	Action mode				
	Permanent	Long Term	Medium Term	Short Term	Instantaneous
⁶ Service class 1	0.3	0.45	0.65	0.85	1.1
⁶ Service class 2	0.2	0.3	0.45	0.6	0.8
Biological	Use classes 1 & 2				

NOTES TO TABLE

- 1 Taken from EN 12369-1:2001
- 2 Taken from Table 9 of EN 13986:2004+A1
- 3 Calculated according to clause 5.10 of EN 13986:2004+A1 $\,$
- 4 Taken from Table 10 of EN 13986:2004+A1
- 5 Taken from Table 11 of EN 13986:2004+A1
- 6 Taken from Eurocode 5 EN 1995-1-1 2004+A2:2014
- 7 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
- ${\bf 8.\ Declaration\ is\ combination\ of\ product\ types\ and\ thicknesses.}$

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

This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011 as it has effect in the United Kingdom in respect of Great Britain, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Mr Toby Dell, Technology Manager

30th June 2021 at Kronospan, Chirk, LL14 5NT

This document is valid as at the date it was printed.