

## DECLARATION OF PERFORMANCE No. P5-CPR-2013-07-01

1. Unique identification code of the product-type:

**Particleboard PB P5**

2. Intended use or uses of the construction product:

**For internal use as a structural component in humid conditions  
 (P5 acc. EN 312 is load-bearing board for use in humid conditions)**

3. Name and contact address of the manufacturer:

**KRONOSPAN CR, spol. s r. o.  
 Na Hranici 6, CZ - 587 04 Jihlava  
 Czech Republic**

4. System of assessment and verification of constancy of performance:

**System 2+**

5. Harmonised standard:

**EN 13986: 2004 + A1:2015**

The notified body:

**no. 1393  
 Výzkumný a vývojový ústav dřevařský, Praha, s.p.  
 (Timber Research and Development Institute, Prague)  
 Na Florenci 7-9, 111 71 Praha 1, Czech Republic  
 www.vvud.cz**

The notified body - Timber Research and Development Institute, Prague - performed initial inspection of the manufacturing plant and of factory production control and performs continuous surveillance, assessment and evaluation of factory production control under the system 2+ as described in harmonised standard EN 13986: 2004 + A1:2015. Notified body issued the certificate of conformity of the factory production control (FPC) No. 1393-CPR-0651

6. Declared performance

Essential characteristics		Performance					Harmonised technical specification
		Boards thickness in mm					
		8 – 13	> 13 – 20	> 20 – 25	> 25 – 32	> 32 – 40	
Strength acc. EN 12369-1 [N/mm <sup>2</sup> ]	Bending $f_m$	15,0	13,3	11,7	10,0	8,3	EN 13986:2004 + A1:2015
	Tension $f_t$	9,4	8,5	7,4	6,6	5,6	
	Compression $f_c$	12,7	11,8	10,3	9,8	8,5	
	Panel shear $f_v$	7,0	6,5	5,9	5,2	4,8	
	Planar shear $f_r$	1,9	1,7	1,5	1,3	1,2	
Stiffness (MOE) acc. EN 12369-1 [N/mm <sup>2</sup> ]	Bending $E_m$	3500	3300	3000	2600	2400	
	Tension $E_t$	2000	1900	1800	1500	1400	
	Compression $E_c$	2000	1900	1800	1500	1400	
	Panel shear $G_v$	960	930	860	750	690	
	Planar shear $G_r$	200	200	200	100	100	

Punching shear as point load strength and point load stiffness		NPD													
Racking resistance		NPD													
Impact resistance		NPD													
Reaction to fire acc. EN 13501-1 <sup>1</sup>		Class D-s2,d0													
Water vapour permeability <sup>2</sup>		NPD													
Release of formaldehyde EN ISO 12460-5		Class E1 ( ≤ 8 mg/ 100g)													
Release (content) of pentachlorophenol (PCP)		PCP ≤ 5 ppm													
Airborne sound insulation acc. EN 13986 <sup>2</sup>	board th.[mm]	8	10	12	13	15	16	18	19	22	25	28	32	38	
	R [dB]	24	25	25	26	27	27	28	28	29	29	30	30	31	
Sound absorption acc. EN 13986, Tab.10		$\alpha = 0,10$ (frequency range 250 Hz to 500 Hz) $\alpha = 0,25$ (frequency range 1000 Hz to 2000 Hz)													
Thermal conductivity (density) acc. EN 12664 <sup>2</sup>		$\lambda = 0,13 \text{ W / m . K}$													
Embedment strength		EN 1995-1-1													
Air permeability		NPD													
Durability	Board thickness [mm]		10 – 13	> 13 – 20	> 20 – 25	> 25 – 32	> 32 – 40								
	Internal bond acc. EN 319		0,45 MPa	0,40 MPa	0,35 MPa	0,30 MPa	0,30 MPa								
	Swelling in thickness (24h) acc. EN 317		11 %	10 %	10 %	10 %	9%								
	Moisture resistance (cyclic test acc. EN 321)	Internal bond after cyclic test	0,25 MPa	0,22 MPa	0,20 MPa	0,17 MPa	0,15 MPa								
		Swelling in thickness after cyclic test	12 %	12 %	11 %	10 %	9%								
	Mechanical (duration of load-creep)	Modification factor $k_{mod}$ acc. EN 1995-1-1, tab. 3.1.	Service class	Permanent load	Long-term load	Medium-term load	Short-term load	Instantaneous load							
			1	0,30	0,45	0,65	0,85	1,10							
2		0,20	0,30	0,45	0,60	0,80									
		Modification factor $k_{def}$ acc. EN 1995-1-1, Tab. 3.2.	$k_{def} = 1,50$ (service class 1) $k_{def} = 2,25$ (service class 2)												
Biological durability acc. EN 335		Use class 2													

EN 13986:2004 + A1:2015

<sup>1</sup> Reaction to fire classification is valid for following end use: without substrate or mechanically fixed to substrate with reaction to fire class A1 or A2.

<sup>2</sup> The information can also be found in the manufacturer's manual (brochure Kronobuild).

7. The performance of the product identified above is in conformity with the set of declared performances. 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:

Libor Kulha, head of production

At Jihlava on 23.10.2017



.....