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C E R T I F I C A T E

NR 7/327/2023

1. ***Name of product :*** ***Particleboard type P3***
2. ***Customer :*** *Swiss Krono LLC, Ya. Mudroho St. 62*
   80400 Kamianka-Buska, Lviv region, Ukraine
3. ***Producer:*** ***Swiss Krono LLC, Ya. Mudroho St. 62***
   80400 Kamianka-Buska, Lviv region, Ukraine
   Production line: Swiss Krono LLC
   77611, Ivano-Frankivsk region, Broshniv-Osada,
   22 Sichnya St., 83, Ukraine
4. ***Particulars on the product:***
   - *date of production: 20.08.2023*
   - *date of delivery research in OB-RPPD: 11.09.2023.*
   - *thickness: 38 mm*
5. ***Properties tested:*** ***Physic mechanical***
6. ***Method and conditions of the tests:***
   - *bending strength and modulus of elasticity in bending according to PN-EN 310:1994,*
   - *internal bond according to PN-EN 319:1999,*
   - *internal bond after boil test according to PN-EN 1087-1:1999,*
   - *swelling in thickness after 24 h according to PN-EN 317:1999,*
   - *density according to PN-EN 323:1999,*
   - *moisture content according to PN-EN 322:1999.*

   Results of the test includes: Test Report No 12390-327-2023.
7. ***Date of the measurement:*** *21.09. ÷ 22.09.2023.*
8. ***Test results***

property	parameter				Requirement EN 312:2010, Table 4, 5, Type P3	Conformity*
	$x_{śr}$	x_{max}	x_{min}	s		
initial moisture [%]	**6,9**	7,0	6,8	0,1		
moisture after air conditioning [%]	**8,2**	8,2	8,2	0,0		
density [kg/m^3]	**614**	624	605	7		
swelling in thickness after 24 h [%]	**7,2**	7,4	6,9	0,2	**≤ 12**	☒ YES ☐ NO
internal bond [N/mm^2]	**0,58**	0,66	0,52	0,04	**≥ 0,30**	☒ YES ☐ NO
internal bond after boil test [N/mm^2]	**0,07**	0,08	0,06	0,01	**≥ 0,06**	☒ YES ☐ NO
bending strength [N/mm^2]	**12,3**	13,2	10,4	0,8	**≥ 9**	☒ YES ☐ NO
modulus of elasticity in bending [N/mm^2]	**2652**	2887	2218	177	**≥ 1550**	☒ YES ☐ NO
Explanation: $x_{śr}$ – *arithmetic mean*, x_{max} – *maximum value*, x_{min} – *minimum value,* s – *standard deviation*						

*decision rule: simple acceptance (according to ILAC-G8:09/2019, 4.2.1)

9. ***Statement:***
   Tested Particleboard type P3 meets the requirement of the EN 312:2010, Table 4, 5 (type P3) for the physic mechanical property

Czarna Woda, 25.09.2023

OB - RPPD spółka z o.o.
Kierownik
Laboratorium Badawczego
mgr inż. Mirosława Mrozek