



**WOOD.BE**

## TEST REPORT 240629

**Customer:** **Fibonacci LLC**  
301, Rockwood Road  
42071Murray, Kentucky  
USA

**Date:** **2024-07-16**

**Subject:** Determination of resistance to indentation – Wood flooring

**Reference documents:** EN 1534:2020


**Results:** see annex

Brussels,

Raymond Van Pestel  
Lab Manager

(\*) Information communicated by an other party is indicated in this report by (\*)  
This report cannot be used to claim conformity with the declared EN standard. This report contains 4 page(s) and can only be distributed in full. The results only relate to the tested samples and the samples were tested as they were received. Unless stated to the contrary, the untested and/or tested samples are only kept in our laboratory for one month counting from the date of the report. Relevant measurement uncertainty can always be requested. Unless stated otherwise, a “Shared Risk” approach was used for the conclusion of the declaration of conformity.

Allée Hof ter Vleestdreef 3 - B-1070 Brussels - T: 00 32 2 558 15 50  
info@wood.be – www.wood.be

Reference WOOD.BE	Reference CLIENT	Total samples
AE240601	HEMPWOOD(*)	10
		

DESCRIPTION	
Customer :	Fibonacci LLC
Identification of sample :	AE240601
Sampling procedure :	NBN EN 326 1 – 2(*)
Panel type :	Engineerd parquet flooring : 3,6mm top on 12mm plywood(*)
Panel size :	15,6x127x1830mm(*)
Production date :	2024(*)
Delivery date :	17/06/2024
Conditions prior to testing :	20°C and 65% relative humidity
Testing conditions :	22,75°C and 57,9% relative humidity
Testing device :	Zwick Z100 static materials testing machine equipped with 10mm indenter + analog ruler microscope
Referred norm :	EN 1534:2020 (no deviations)
Description of test :	<p>The resistance to indentation is determined by applying a loaded indenter with 10mm ball tip to the face of the test specimen. The diameter of the residual indentation is used to evaluate the resistance to indentation of the test specimen.</p> <p>After the loading, the unloaded specimen is left to recover for at least 3 minutes before measuring the transversal and longitudinal diameters of the indentation. Using the measured values, as well as the applied load, the Brinell Hardness is calculated.</p>

**Individual testresults:**

<b>Test performed on 09/07/2024</b>						
Reference	#	F(max)	Transversal diameter of indentation	Longitudinal diameter of indentation	Average indentation diameter	Brinell Hardness
		N (Newton)	mm	mm	mm	N/mm <sup>2</sup>
AE240601/1	1	999	5,44	6,26	5,85	33,67
	2	999	5,66	6,41	6,04	31,37
	3	998	6,73	6,79	6,76	24,14
	4	1001	5,53	6,71	6,12	30,46
	5	998	6,03	6,24	6,14	30,21
	6	998	6,07	6,38	6,23	29,24
AE240601/2	7	999	3,91	4,50	4,21	68,59
	8	998	4,25	5,31	4,78	52,26
	9	999	4,34	4,40	4,37	63,27
	10	1000	4,26	5,06	4,66	55,25
	11	999	4,00	4,35	4,18	69,65
	12	999	4,19	4,94	4,57	57,65
AE240601/3	13	998	4,09	4,51	4,30	65,36
	14	999	4,95	6,20	5,58	37,45
	15	999	5,55	5,81	5,68	35,95
	16	999	5,91	6,30	6,11	30,58
	17	999	4,74	5,25	5,00	47,59
	18	999	4,88	5,55	5,22	43,33
AE240601/4	19	1000	4,40	4,99	4,70	54,35
	20	998	5,59	5,80	5,70	35,71
	21	999	4,90	4,40	4,65	55,46
	22	998	4,99	5,84	5,42	39,90
	23	998	4,30	4,90	4,60	56,70
	24	999	5,61	5,73	5,67	36,08
AE240601/5	25	998	5,80	6,39	6,10	30,67
	26	999	6,59	6,83	6,71	24,59
	27	999	5,21	5,71	5,46	39,19
	28	999	6,01	6,57	6,29	28,57
	29	998	4,81	5,18	5,00	47,54
	30	999	4,39	6,29	5,34	41,15
AE240601/6	31	998	4,91	5,24	5,08	45,94
	32	999	4,34	5,06	4,70	54,18
	33	1001	4,69	5,46	5,08	46,06
	34	998	5,30	5,86	5,58	37,36
	35	999	4,91	5,53	5,22	43,26

	36	1001	5,62	6,05	5,84	33,92
AE240601/7	37	999	4,93	4,91	4,92	49,15
	38	1000	4,74	5,49	5,12	45,22
	39	999	5,75	5,69	5,72	35,38
	40	998	5,09	5,27	5,18	43,95
	41	999	5,01	4,94	4,98	47,99
	42	999	4,82	4,90	4,86	50,44

AE240601/8	43	999	5,58	5,75	5,67	36,14
	44	998	5,01	5,06	5,04	46,74
	45	999	4,82	5,12	4,97	48,08
	46	999	4,46	5,21	4,84	51,00
	47	999	5,02	5,27	5,15	44,61
	48	998	5,90	5,84	5,87	33,37
AE240601/9	49	999	4,89	4,68	4,79	52,18
	50	999	4,52	5,03	4,78	52,39
	51	999	4,95	5,42	5,19	43,90
	52	998	4,57	5,74	5,16	44,42
	53	999	4,86	4,90	4,88	50,01
	54	999	4,50	4,91	4,71	54,06
AE240601/10	55	999	5,50	5,85	5,68	35,99
	56	1000	5,80	5,98	5,89	33,17
	57	998	5,37	5,65	5,51	38,40
	58	999	5,85	6,62	6,24	29,14
	59	998	5,31	5,75	5,53	38,09
	60	998	5,19	6,32	5,76	34,88

**Overall results:**

	Average Brinell Hardness (N/mm <sup>2</sup> )	Standard Deviation	Characteristic value of hardness
<b>Results:</b>	43,26	10,79	25,24