

TEST REPORT

Test Order/Report No: BVIPL: LAMINATED WOODEN FLOORING AC-3/25951C/2407/8/2024
Job ID No: 2024/Aug/2423967-(UIN-24034676)

Date of Issue: 28.09.2024
Date of Receipt: 27.08.2024
Page 1 of 2

Issued to: BALAJI ACTION BUILDWELL PRIVATE LIMITED
C34,C34A TO D C3, ELDECO SIDCUL INDUSTRIAL PARK, SITARGANJ, Udham Singh Nagar, Uttarakhand, 262405

TEST REPORT ON LAMINATED WOODEN FLOORING AC-3

Source of Sample* : BALAJI ACTION BUILDWELL PRIVATE LIMITED
No. of Sample Tested : 1 (One)
Customers Reference* : Letter Dated 24.08.2024
Project* : Not Furnished
Condition of Sample : Satisfactory
Sample Drawn By : Customer
Sample Identification* : Laminated Wooden Flooring (AC-3)
Grade/Type* : Not Furnished
Brand* : Not Furnished
Period of Test : 27.08.2024 to 27.09.2024

Mechanical Testing-(Building, Infrastructure & Construction Materials)- Laminated Wooden Flooring (AC-3)

S. No.	Test Conducted	Results	Requirement as per BSEN 13329-2016	Test Method
1.	Length of Surface layer, mm	1214.3	1214+0.50	BSEN 13329-2016
	- Average			
2.	Width of Surface layer, mm	193.09	193+0.10	
	i) Average			
	ii) Difference (Max-Min)	0.08	< 0.20	
	Thickness, mm	8.28	8+0.50	
i) Average				
3.	ii) Difference (Max-Min)	0.17	<0.80	
	4. Squareness of Element, mm	0.10	<0.20	
5. Straightness of Surface Layer, mm/m	0.02	<0.30		
6.	Opening between Elements, mm			
	Average	0.08	<0.15	
	Max	0.12	< 0.20	
7.	Height difference Between Elements, mm			
	Average	0.04	< 0.10	
	Max	0.08	< 0.15	
8.	Flatness of Element, %			
	i) Length Concave	0.03	<0.50	
	ii) Length Convex	0.03	<1.00	
	iii) Width Concave	0.05	<0.15	
	iv) Width Convex	0.05	<0.20	



UMA SHANKAR JIJA
Signature
Authorized Signatory
(Mechanics)

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Page 2 of 2


S. No.	Test Conducted	Results	Requirement as per BSEN 13329-2016	Test Method
9.	Dimensional Variation After change in relative Humidity, mm			BSEN 13329-2016
	i) 23±2°C & 30±5%RH			
	Length	0.23	≤0.9	
	Width	0.15		
ii)	23±2°C & 90±5%RH			
	Length	0.32	≤0.9	
	Width	0.23		
10.	Surface Soundness, N/mm ²	1.33	≥1.0	
11.	Static indentation, mm	0.02	<0.05	EN 150 24343-1
12.	Thickness Swelling, %	12.3	<18	ISO 24336
13.	Effect of a furniture leg	Passes the test	No Visual Damage	EN 424
14.	Effect of a caster Chair (25000 cycle)	Passes the test	No Damage	EN 425
15.	Abrasion Resistance (Revolution)	2500	≥2000	EN-13329
16.	Impact Resistance			EN-13329
	- Small Ball, N	13	≥8	
	- Big ball, mm	550	≥500	
17.	Locking Strength, KN/m			ISO 24334
	- Length	1.8	-	
	- Width	2.6		

Chemical Testing-(Building, Infrastructure & Construction Materials)- Laminated Wooden Flooring (AC-3)

S. No.	Test Conducted	Results	Requirement as per EN 438-P-2-2016 Clause 26 & BS EN 483-3-2016	Test Method
1	Resistance to Staining - Acetone - Coffee - Shoes Polish - Sodium Hydroxide (25 % Solution) - Hydrogen Peroxide (30 % Solution)	(No Change) Rating 5 (No Change) Rating 5 (No Change) Rating 5 (No Change) Rating 5 (No Change) Rating 5	Rating 5 Rating 5 Rating 5 Rating 5 Rating 5	EN 438-P-2-2016 Clause 26 and BS EN 483-3-2016

Note: The above S No. 15 to 17 test ware facilitated by an external laboratory

****End of Report****



UMA SHANKAR JHA
Authorized Signatory
(Instrument)



CHANDAN SINGH
Authorized Signatory
(Cheical)



CHECKED
ID: 776664

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TEST REPORT

Test Order/Report No: BVIPL: LAMINATED WOODEN FLOORING AC-4/25951C/2407/8/2024
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C34,C34A TO D C3, ELDECO SIDCUL INDUSTRIAL PARK, SITARGANJ, Udham Singh Nagar, Uttarakhand, 262405

TEST REPORT ON LAMINATED WOODEN FLOORING AC-4

Source of Sample* : BALAJI ACTION BUILDWELL PRIVATE LIMITED
No. of Sample Tested : 1 (One)
Customers Reference* : Letter Dated 24.08.2024
Project* : Not Furnished
Condition of Sample : Satisfactory
Sample Drawn By : Customer
Sample Identification* : Laminated Wooden Flooring (AC-4)
Grade/Type* : Not Furnished
Brand* : Not Furnished
Period of Test : 27.08.2024 to 27.09.2024

Mechanical Testing-(Building, Infrastructure & Construction Materials)- Laminated Wooden Flooring (AC-4)

S. No.	Test Conducted	Results	Requirement as per BSEN 13329-2016	Test Method	
1.	Length of Surface layer, mm	1213.8	1214+0.50	BSEN 13329-2016	
	- Average				
2.	Width of Surface layer, mm	193.08	193+0.10		
	iii) Average				
	iv) Difference (Max-Min)				0.14
3.	Thickness, mm	8.30	8+0.50		
	iii) Average				
	iv) Difference (Max-Min)				0.20
4.	Squareness of Element, mm	0.15	≤ 0.20		
5.	Straightness of Surface Layer, mm/m	0.04	≤ 0.30		
6.	Opening between Elements, mm	0.04	≤ 0.15		
	Average				
	Max				0.06
7.	Height difference Between Elements ,mm	0.05	≤ 0.10		
	Average				
	Max				0.07
8.	Flatness of Element, %	0.05	≤ 0.50		
	v) Length Concave				
	vi) Length Convex			0.13	≤ 1.00
	vii) Width Concave			0.05	≤ 0.15
	viii) Width Convex			0.08	≤ 0.20



UMA SHANKU JAIN
Uma Shanku Jain
Authorized Signatory
(Mechanical)

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Page 2 of 2

S. No.	Test Conducted	Results	Requirement as per BSEN 13329-2016	Test Method
9.	Dimensional Variation After change in relative Humidity, mm			BSEN 13329-2016
	iii) 23±2°C & 30±5%RH			
	Length	0.18	≤0.9	
	Width	0.19		
iv)	23±2°C & 90±5%RH			
	Length	0.42	≤0.9	
	Width	0.39		
10.	Surface Soundness, N/mm ²	1.48	≥1.25	
11.	Static indentation, mm	0.02	≤0.05	EN 150 24343-1
12.	Thickness Swelling, %	10.8	≤18	ISO 24336
13.	Effect of a furniture leg	Passes the test	No Visual Damage	EN 424
14.	Effect of a caster Chair (25000 cycle)	Passes the test	No Damage	EN 425
15.	Abrasion Resistance (Revolution)	4500	≥4000	EN-13329
16.	Impact Resistance			EN-13329
	- Small Ball, N	18	≥12	
	- Big ball, mm	780	≥750	
17.	Locking Strength, KN/m			ISO 24334
	- Length	2.9	≥1.0	
	- Width	3.4	≥2.0	

Chemical Testing-(Building, Infrastructure & Construction Materials)- Laminated Wooden Flooring (AC-4)

S. No.	Test Conducted	Results	Requirement as per EN 438-P-2-2016 Clause 26 & BS EN 483-3-2016	Test Method
1	Resistance to Staining - Acetone - Coffee - Shoes Polish - Sodium Hydroxide (25 % Solution) - Hydrogen Peroxide (30 % Solution)	(No Change) Rating 5 (No Change) Rating 5 (No Change) Rating 5 (No Change) Rating 5 (No Change) Rating 5	Rating 5 Rating 5 Rating 5 Rating 5 Rating 5	EN 438-P-2-2016 Clause 26 and BS EN 483-3-2016

Note: The above S No. 15 to 17 test ware facilitated by an external laboratory

****End of Report****



UMA SHANKAR JHA
Authorized Signatory
(Mechanical)



****End of Report****
CHANDAN SINGH
Authorized Signatory
(Chemical)



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TEST REPORT ON LAMINATED WOODEN FLOORING AC-5

Source of Sample* : BALAJI ACTION BUILDWELL PRIVATE LIMITED
No. of Sample Tested : 1 (One)
Customers Reference* : Letter Dated 24.08.2024
Project* : Not Furnished
Condition of Sample : Satisfactory
Sample Drawn By : Customer
Sample Identification* : Laminated Wooden Flooring (AC-5)
Grade/Type* : Not Furnished
Brand* : Not Furnished
Period of Test : 27.08.2024 to 27.09.2024

Mechanical Testing-(Building, Infrastructure & Construction Materials)- Laminated Wooden Flooring (AC-5)

S. No.	Test Conducted	Results	Requirement as per BSEN 13329-2016	Test Method
1.	Length of Surface layer, mm - Average	1214.3	1214+0.50	BSEN 13329-2016
2.	Width of Surface layer, mm v) Average vi) Difference (Max-Min)	193.07 0.10	193+0.10 ≤ 0.20	
3.	Thickness, mm v) Average vi) Difference (Max-Min)	8.33 0.14	8+0.50 ≤0.80	
4.	Squareness of Element, mm	0.20	≤0.20	
5.	Straightness of Surface Layer, mm/m	0.03	≤0.30	
6.	Opening between Elements, mm Average Max	0.06 0.10	≤0.15 ≤ 0.20	
7.	Height difference Between Elements ,mm Average Max	0.06 0.09	≤ 0.10 ≤ 0.15	
8.	Flatness of Element, % ix) Length Concave x) Length Convex xi) Width Concave xii) Width Convex	0.04 0.08 0.03 0.08	≤0.50 ≤1.00 ≤0.15 ≤0.20	



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(Mechanics)

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Page 2 of 2

S. No.	Test Conducted	Results	Requirement as per BSEN 13329-2016	Test Method
9.	Dimensional Variation After change in relative Humidity, mm			BSEN 13329-2016
	v) 23±2°C & 30±5%RH			
	Length	0.16	≤0.9	
	Width	0.17		
vi)	23±2°C & 90±5%RH			
	Length	0.29	≤0.9	
	Width	0.33		
10.	Surface Soundness, N/mm ²	1.69	≥1.25	
11.	Static indentation, mm	0.02	≤0.05	EN 150 24343-1
12.	Thickness Swelling, %	10.9	≤15	ISO 24336
13.	Effect of a furniture leg	Passes the test	No Visual Damage	EN 424
14.	Effect of a caster Chair (25000 cycle)	Passes the test	No Damage	EN 425
15.	Abrasion Resistance (Revolution)	7000	≥6000	EN-13329
16.	Impact Resistance			EN-13329
	- Small Ball, N	21	≥15	
	- Big ball, mm	1050	≥1000	
17.	Locking Strength, KN/m			ISO 24334
	- Length	3.2	≥1.0	
	- Width	4.1	≥2.0	

Chemical Testing-(Building, Infrastructure & Construction Materials)- Laminated Wooden Flooring (AC-5)

S. No.	Test Conducted	Results	Requirement as per EN 438-P-2-2016 Clause 26 & BS EN 483-3-2016	Test Method
1	Resistance to Staining - Acetone - Coffee - Shoes Polish - Sodium Hydroxide (25 % Solution) - Hydrogen Peroxide (30 % Solution)	(No Change) Rating 5 (No Change) Rating 5 (No Change) Rating 5 (No Change) Rating 5 (No Change) Rating 5	Rating 5 Rating 5 Rating 5 Rating 5 Rating 5	EN 438-P-2-2016 Clause 26 and BS EN 483-3-2016

Note: The above S No. 15 to 17 test ware facilitated by an external laboratory

****End of Report****



UMA SHANKAR JHA
Authorized Signatory
(Mechanical)



CHANDAN SINGH
Authorized Signatory
(Chemical)



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