# TEST REPORT

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| TR12323498 | |
| 24.02.2023 | |

**EUROLAB LABORATUVAR A.Ş.**

EUROLAB Inspection & Testing Laboratory

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| **Report No**/ Rapor No : | 2023240212-R1 |
| **Applicant**/Deney Sahibi **:** | **ASD LAMINAT A.Ş.** |
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| **Sample ID :** | **ASD LAMINAT** |

| | TEST | METHOD | Specimen | RESULT |
|---|---|---|---|---|
| - | **Electrostatics Standard test methods for specific applications. Electrical resistance of floor coverings and installed floors** | **EN 61340-4-1: 2004+A1:2015** | **ASD LAMINAT** | **1,75 MΩ** |

NOTE: This test result replaces the conformity assessment, can be presented to official institutions, and used in products and brochures.

Seal

Customer Representative
Merve Nur KIRVELİ

Laboratory Manager
Merve ÖZLÜ





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## Scope

This part of IEC 61340 specifies test methods for determining the electrical resistance of all types of floor coverings and installed floors with resistance to ground, point-to-point resistance and vertical resistance of between $10^4$ Ω and $10^{13}$ Ω.

## Acceptance Testing

A laboratory evaluation apparatus shall be used for acceptance testing or an apparatus with an open-circuit voltage of

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| - | 10 V ± 0,5 V for resistance below $1,0 \times 10^6$ Ω |
| - | 100 V ± 5 V for resistance between $1,0 \times 10^6$ Ω and $1,0 \times 10^{11}$ Ω |
| - | 500 V ± 25 V for resistance above $1,0 \times 10^{11}$ Ω. |

## Conditioning

| Time | Temperature | Relative Humidity |
|---|---|---|
| 48 h | 23 °C ± 2 | 12 % ± 3 % |

## Procedure

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| **Point-to-point resistance** | Place the test specimen with its use-surface uppermost on the insulating plate. Place the two measuring electrodes on the test specimen 300 mm ± 10 mm distance centre to centre. For tests on installed floors, the electrodes shall be placed on the floor surface with the same distance between them as for laboratory evaluations. Connect the measuring electrodes to the resistance measuring apparatus. Starting with the voltage set to 10 V, take a reading of the resistance 15 s ± 2 s after applying the test voltage. If the value exceeds $10^6$ Ω, select 100 V and repeat the measurement. If the value for this second measurement exceeds $10^{11}$ Ω, select 500 V and make a final measurement. Record the reading which matches the voltage and resistance range specified, unless either of the following situations occur:<br>a) the measured resistance at 10 V is greater than $1,0 \times 10^6$ Ω and the measured resistance at 100 V is less than $1,0 \times 10^6$ Ω; or<br>b) the measured resistance at 100 V is greater than $1,0 \times 10^{11}$ Ω and the measured resistance at 500 V is less than $1,0 \times 10^{11}$ Ω. |
| **Vertical resistance** | Place the counter-electrode on the insulating plate. Place the specimen with its use-surface uppermost on the counter-electrode. Place one measuring electrode on the test specimen with its centre no closer than 100 mm to the test specimen's edges. Connect the measuring and counter-electrode to the resistance measuring apparatus. Starting with the voltage set to 10 V, take a reading of the resistance 15 s ± 2 s after applying the test voltage. If the value exceeds $10^6$ Ω, select 100 V and repeat the measurement. If the value for this second measurement exceeds $10^{11}$ Ω, select 500 V and make a final measurement. Record the reading which matches the voltage and resistance range specified, unless either of the following situations occur:<br>a) the measured resistance at 10 V is greater than $1,0 \times 10^6$ Ω and the measured resistance at 100 V is less than $1,0 \times 10^6$ Ω; or<br>b) the measured resistance at 100 V is greater than $1,0 \times 10^{11}$ Ω and the measured resistance at 500 V is less than $1,0 \times 10^{11}$ Ω. |



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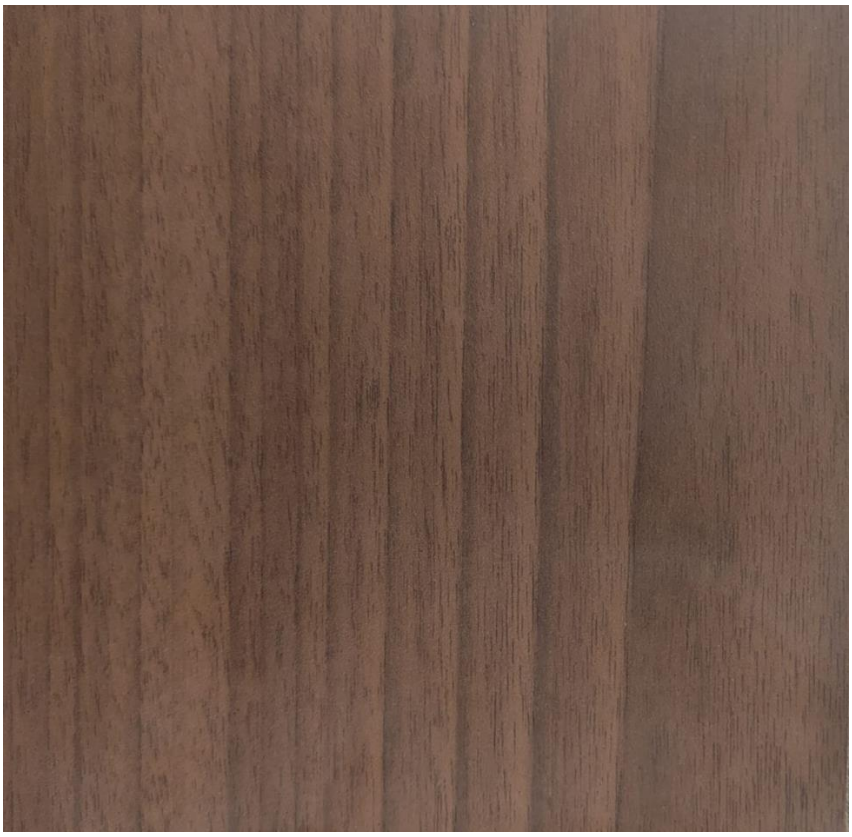
| **Resistance to ground** | Place the test specimen with its use-surface uppermost on the insulating plate. Place one measuring electrode on the test specimen with its centre no closer than 100 mm to any of the test specimen's edges. Connect the measuring electrode and groundable point to the resistance measuring apparatus. Starting with the voltage set to 10 V, take a reading of the resistance 15 s ± 2 s after applying the test voltage. If the value exceeds $10^6$ Ω, select 100 V and repeat the measurement. If the value for this second measurement exceeds $10^{11}$ Ω, select 500 V and make a final measurement. Record the reading which matches the voltage and resistance range specified, unless either of the following situations occur:<br>a) the measured resistance at 10 V is greater than $1,0 \times 10^6$ Ω and the measured resistance at 100 V is less than $1,0 \times 10^6$ Ω; or<br>b) the measured resistance at 100 V is greater than $1,0 \times 10^{11}$ Ω and the measured resistance at 500 V is less than $1,0 \times 10^{11}$ Ω. |

**Test Result**

| Sample | Type Of Measurement | Measurement | Geometric Mean |
|---|---|---|---|
| ASD Laminat | Resistance To Ground | 1,65 MΩ | 1,75 MΩ |
| | | 1,74 MΩ | |
| | | 1,89 MΩ | |

**Sample Image**



***** End of Report *****



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