



TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Testing Laboratory

KARAKUTU ELEKTROAKUSTİK PROJE VE UYGULAMA SANAYİ VE TİCARET LİMİTED ŞİRKETİ

Central Address: ADALET MAH. ANADOLU CAD. TEPEKULE İŞ MERKEZİ NO:40/401 BAYRAKLI İzmir / Türkiye

is accredited in accordance with TS EN ISO/IEC 17025:2017 standard within the scope given in Annex following the assessment conducted by TURKAK.

Accreditation Number : AB-1572-T

Accreditation Date : 15.09.2020

Revision Date / Number : 31.10.2024 / 03


This certificate shall remain in force until **14.09.2028**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.

Gülden Banu Müderrisoğlu
Secretary General



Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.


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 <p>TÜRKAK Test TS EN ISO/IEC 17025 AB-1572-T</p>	<p>KARAKUTU ELEKTROAKUSTİK PROJE VE UYGULAMA SANAYİ VE TİCARET LİMİTED ŞİRKETİ</p> <p>Accreditation Nr: AB-1572-T Revision Nr: 03 Date: 31.10.2024</p> <p>Testing Laboratory</p> <p>Address : ADALET MAH. ANADOLU CAD. TEPEKULE İŞ MERKEZİ NO:40/401 BAYRAKLI İzmir / Türkiye</p> <p>Phone : +90 232 462 0666 Fax : - Email : info@blx-arl.com Website : www.blx-arl.com</p>
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Environmental Tests		
Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Acoustic-Noise	Description, measurement and assessment of environmental noise-Part 1: Basic quantities and assessment procedures	TS ISO 1996-1
Acoustic-Noise	Description, measurement and assessment of environmental noise-Part 2: Determination of sound pressure levels	TS ISO 1996-2
Acoustic-Noise	Field measurement of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation	TS EN ISO 16283-1
Acoustic-Noise	Field measurement of sound insulation in buildings and of building elements - Part 2: Impact sound insulation	TS EN ISO 16283-2
Acoustic-Noise	Field measurement of sound insulation in buildings and of building elements - Part 3: Façade sound insulation	TS EN ISO 16283-3
Acoustics	Measurement of room acoustic parameters - Part 1: Performance spaces	TS EN ISO 3382-1
Acoustic-Noise	Measurement of room acoustic parameters ($L_{eq, T}$)- Part 2: Reverberation time in ordinary rooms	TS EN ISO 3382-2 and TS EN ISO 3382-2/AC
Acoustic-Noise	Measurement of room acoustic parameters - Part 3: Open plan offices	TS EN ISO 3382-3
Acoustic-Noise	Determination of sound power levels and sound energy levels of noise sources using sound pressure - Precision methods for reverberation test rooms	TS EN ISO 3741
Acoustic-Noise	Determination of sound power levels of noise sources using sound pressure - Engineering methods for small, movable sources in reverberant fields - Part 2: Methods for special reverberation test rooms	TS EN ISO 3743-2
Acoustic-Noise	Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane	TS EN ISO 3744
Acoustic-Noise	Determination of sound power levels and sound energy levels of noise sources using sound pressure - Survey method using an enveloping measurement surface over a reflecting plane	TS EN ISO 3746
Acoustic-Noise	Laboratory and field measurement of flanking transmission for airborne, impact and building service equipment sound between adjoining rooms - Part 2: Application to Type B elements when the junction has a small influence	TS EN ISO 10848-2 and TS EN ISO 10848-2/AC
Acoustic-Noise	Laboratory and field measurement of flanking transmission for airborne, impact and building service equipment sound between adjoining rooms - Part 3: Application to Type B elements when the junction has a substantial influence	TS EN ISO 10848-3
Acoustic - Noise	Acoustic quality criteria for music rehearsal rooms and spaces	ISO 23591
Acoustic - Noise	Acoustics – Acoustic quality of open office spaces	ISO 22955
Acoustic-Noise	Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering/survey methods for use in situ in a reverberant environment	TS EN ISO 3747




Accreditation Scope

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Acoustic-Noise	Acoustics - Measurement of sound pressure level from service equipment in buildings - Engineering method	ISO 16032
Acoustic-Noise	Attenuation of sound during propagation outdoors – Part 1: Calculation of the absorption of sound by atmosphere	TS ISO 9613-1
Acoustic-Noise	Attenuation of sound during propagation outdoors - Part 2: General method of calculation	TS ISO 9613-2
Acoustic-Noise	Determination of sound power levels (ΔL_s , ΔL_F , ΔL_M , ΔL_a , L_{pA} , L_w) of multisource industrial plants for evaluation of sound pressure levels in the environment	TS ISO 8297
Acoustic-Noise	Evaluation of acoustic performance of buildings from the performance of elements (L_{eq} , R_w) - Part 1: Airborne sound insulation between rooms	TS EN 12354-1
Acoustic-Noise	Evaluation of acoustic performance of buildings from the performance of elements (L_{eq} , R_w) - Part 2: Impact sound insulation between rooms	TS EN 12354-2
Acoustic-Noise	Evaluation of acoustic performance of buildings from the performance of elements (L_{eq} , R_w) - Part 3: Airborne sound insulation against outdoor sound	TS EN 12354-3
Acoustic-Noise	Evaluation of acoustic performance of buildings from the performance of elements (L_{eq} , R_w) - Part 4: Transmission of indoor sound to the outside	TS EN 12354-4
Acoustic-Noise	Calculation of acoustic performance of buildings from the performance of elements - Part 6: Sound absorption in enclosed spaces	TS EN 12354-6
Experimental / Environmental experiments / Acoustics - Noise and Vibration Experiments	Assessment of Speech Intelligibility through the Speech Transfer Index	IEC 60268-16

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Construction Materials, Products and Buildings		
Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Doors and Windows	Acoustics - Laboratory Measurement of Sound Insulation of Building Elements - Measurement of Airborne Sound Insulation	TS EN ISO 10140-2
Thermal Insulation Materials - Acoustics	Measurement of Sound Absorption in a Reverberation Room	TS EN ISO 354
Acoustic - Noise	Measurement of speech level reduction of furniture ensembles and enclosures Part 1: Laboratory method	ISO 23351-1
Doors and Windows	Acoustics - Rating of Sound Insulation in Buildings and of Building Elements - Airborne Sound Insulation	TS EN ISO 717-1
Windows, Doors, Walls, Ceilings, Panels	Acoustics - In-Situ Determination of Insertion Loss of Outdoor Noise Barriers of all Types	ISO 10847
Screens, Furniture and Single Objects intended for Interior Use	Acoustics - Rating of Sound Absorption and Sound Reduction of Elements based on Laboratory Measurements	ISO 20189
Sound Insulation Materials	Acoustics - Determination of Sound Absorption Coefficient and Impedance in Impedance Tubes - Part 2: Transfer-Function Method	TS EN ISO 10534-2
Windows, Doors, Walls, Ceilings and Panels	Rating of Sound Insulation in Buildings and of Building Elements - Part 2: Impact Sound Insulation	TS EN ISO 717-2
Cabins	Acoustics-Determination of Sound Insulation Performance of Cabins-Laboratory and in Situ Measurements	TS EN ISO 11957
Enclosures	Acoustics - Determination of Sound Insulation Performances of Enclosures	TS EN ISO 11546-1
Structures and Structural Elements	Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method	ASTM C423-17
Doors and Windows	Acoustics - Determination of the Reduction of Transmitted Impact Noise by Floor Coverings on a Small Floor Mock-up - Part 1: Heavyweight Compact Floor	TS EN ISO 16251-1
Curtain Walls	Acoustics - Determination of the Reduction of Transmitted Impact Noise by Floor Coverings on a Small Floor Mock-up - Part 1: Heavyweight Compact Floor	TS EN ISO 16251-1

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Electrical,Electronic and IT Products and Devices		
Tested Materials / Products	Name of Test	Testing Method (National, International Standards, In-house Methods)
Household and similar electrical appliances	Household and similar electrical appliances - Test code for the determination of airborne noise - Part 1: General requirements	TS EN 60704-1 EN 60704-1 IEC 60704-1
Household and similar electrical appliances	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-1: Particular requirements for vacuum cleaners (IEC 60704-2-1:2000) / Note: Applies only in conjunction with EN 60704-1 (1997)	TS EN 60704-2-1 EN 60704-2-1 IEC 60704-2-1
Household and similar electrical appliances	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-9: Particular requirements for electric hair care appliances (IEC 60704-2-9:2003) / Note: Endorsement notice	TS EN 60704-2-9 EN 60704-2-9 IEC 60704-2-9
Household and similar electrical appliances	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-10: Particular requirements for electric cooking ranges, ovens, grills, microwave ovens and any combination of these	TS EN 60704-2-10 EN 60704-2-10 IEC 60704-2-10
Household and similar electrical appliances	Household and similar electrical appliances - Test code for the determination of airborne acoustical noise -- Part 2-14: Particular requirements for refrigerators, frozen-food storage cabinets and food freezers	TS EN 60704-2-14 EN 60704-2-14 IEC 60704-2-14
Fire detection and alarm systems	Fire detection and alarm systems -- Part 19: Design, installation, commissioning and service of sound systems for emergency purposes	ISO 7240-19

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