

## Sound Insulation Testing

Test Service	Common Test Standards
<b>Airborne Sound Insulation</b>	<ul style="list-style-type: none"> <li>● ISO 140-3 (BS 2750-3)</li> <li>● ISO 140-10</li> </ul>
1) Walls / Partitions / Doors / Windows / Glazings	<ul style="list-style-type: none"> <li>● ISO 10140-2</li> <li>● ISO 10848-2</li> <li>● ASTM E90</li> </ul>
2) Ceilings	<ul style="list-style-type: none"> <li>● ASTM E1414</li> <li>● BS EN 1793-2</li> </ul>
3) Floors	<ul style="list-style-type: none"> <li>● GB/T 8485</li> <li>● GB/T 19889.3</li> </ul>
4) Façades	<ul style="list-style-type: none"> <li>● ISO 140-4</li> <li>● ISO 140-5</li> </ul>
5) Road Traffic Noises – Reducing devices	<ul style="list-style-type: none"> <li>● ISO 10052</li> <li>● ISO-16283-1</li> </ul>
6) Small Building Elements (transfer air devices, cable ducts....etc)	<ul style="list-style-type: none"> <li>● ISO 16283-3</li> <li>● ASTM E336</li> <li>● GB/T 16730</li> <li>● GB/T 19889.4</li> <li>● GB/T 19889.5</li> <li>● GB/T 19889.10</li> </ul>

## Sound Insulation Testing (continued...)

Test Service	Common Test Standards
Structure-borne Sound Insulation	<ul style="list-style-type: none"><li>● ISO 140-6</li><li>● ISO 140-8</li><li>● ISO 10140-3</li><li>● ISO 16251-1</li><li>● GB/T 19889.8</li><li>● ISO 140-7</li><li>● ISO 10052</li><li>● ISO 16283-2</li><li>● ASTM E1007</li><li>● GB/T 19889.7</li></ul>
Sound Insulation - Enclosures	<ul style="list-style-type: none"><li>● ISO 11546-1</li><li>● ISO 11957</li><li>● ASTM E596</li><li>● GB/T 18699-1</li><li>● ISO 11546-2</li></ul>
Insertion Loss of Outdoor Noise Barriers	<ul style="list-style-type: none"><li>● ISO 10847</li></ul>

## Structural Strength Testing

Test Service	Common Test Standards
Loading Test	<ul style="list-style-type: none"><li>● BS EN 1794-1</li></ul>

## Sound Absorption Testing

Test Service	Common Test Standards
Sound Absorption & Scattering	<ul style="list-style-type: none"><li>● ISO 354</li><li>● ISO 17497-1</li><li>● BS EN 1793-1</li><li>● ASTM C423</li><li>● GB/T 20247</li><li>● ISO 17497-2</li></ul>
Reverberation Time	<ul style="list-style-type: none"><li>● ISO 3382-2</li><li>● ISO 3382-1</li></ul>
Airflow Resistivity Test	<ul style="list-style-type: none"><li>● ISO 9053</li></ul>

## Sound Attenuation Testing

Test Service	Common Test Standards
Silencer Performance	<ul style="list-style-type: none"><li>● ISO 7235</li><li>● ISO 11691</li><li>● ASTM E477</li><li>● GB/T 25516</li><li>● GB/T 4760</li><li>● ISO 11820</li></ul>

## Sound Pressure Testing

Test Service	Common Test Standards
Sound Power Levels	<ul style="list-style-type: none"><li>● ISO 3741</li><li>● GB/T 6881.1</li><li>● ISO 3744</li><li>● ISO 3746</li><li>● ISO 3747</li><li>● Noise Control Ordinance (Chapter 400) - Noise Control (Air Compressors) Regulation</li><li>● Noise Control Ordinance (Chapter 400) - Noise Control (Hand Held Percussive Breakers) Regulation</li><li>● Quality Powered Mechanical Equipment (QPME) Label (EPD) – European Union (EU) Directive 2000/14/EC</li><li>● Quality Powered Mechanical Equipment (QPME) Label (EPD) – Regulations of Ministry of Land, Infrastructure, Transport and Tourism (MLIT) of Japan</li></ul>

## Sound Pressure Testing (continued...)

Test Service	Common Test Standards
Sound Pressure Level	<ul style="list-style-type: none"><li>● ISO 1996-2</li><li>● ISO 16032</li><li>● ISO 10052</li><li>● GBZ/T 189.8</li><li>● GB 3096</li><li>● GB/T 3222-1</li><li>● GB 12348</li><li>● GB/T 12524</li><li>● GB/T 18204.1</li><li>● GB 22337</li><li>● Technical Memorandum for the assessment of noise from places other than domestic premises, public places or construction sites by Hong Kong Environmental Protection Department</li></ul>

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