

## **Job References**

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Transmission Loss Measurement for Acoustic Louvre.
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HOKLAS Accredited Laboratory Sound Reduction Index Measurement for one Sandwich Panel according to BS EN ISO 140-3: 1995.

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Laboratory Sound Absorption Measurement for acoustical ceiling panels for West Rail Station according to ASTM C423-99.
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Laboratory sound absorption test for one roof panel and one wall panel according to ASTM C423.

### **On-site Sound Insulation Measurement**

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Field Noise Isolation Class Measurement of Partition at Olympic Station HSBC Center according to ASTM E336 and ASTM E413.
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Field Sound Transmission Class Measurement for Party Wall at CityPlaza according to ASTM E336 and ASTM E413.
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Field Sound Transmission Class Measurement for Party Wall at CityPlaza according to ASTM E336 and ASTM E413

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Noise Isolation Class for Operable Partition according to ASTM E336 “Measurement of Airborne Sound Insulation in Buildings” .

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Field Reverberation Time Measurement inside the Swimming Pool, Homantin Government Building.
2. CH2M Hill (China) Limited (November 2002)  
Field Reverberation Time Measurement inside the Public Transport Interchange (PTI) Areas
3. Andermax (Hong Kong) Limited (February 2003)  
Field Reverberation Time Measurement inside the Canteen and Hall of PLK Siu Hon-Sum Primary School.
4. Pyrok Industries Limited (August 2002)  
Field Reverberation Time Measurement inside inside the Public Transport Interchange (PTI) Areas for MTRC TKO Extension.
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HOKLAS accredited field decay rates and room absorptions for ASD Contract No. SSK338 – The Construction of a Primary School in Lam Tin Estate Redevelopment.

## Acoustic and Vibration Assessment

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Acoustic absorption calculation for KCRC Tai Wai Station.
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Aircraft Noise Assessment for Government Flying Service Headquarters.
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Noise control for upgrading of Existing Pumping Station.
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Assessment of Noise Exposure according to Factories and Industrial Undertakings (Noise at Work) Regulation.
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Night-time Noise and Vibration Measurement at Grand Dynasty View
8. Constructional Systems Limited  
Railway Noise Monitoring at Fo Tan
9. Nature and Technologies Ltd.  
Baseline Noise Monitoring in Hong Kong
10. Hong Kong Society for the Protection of Children  
Noise monitoring for the events in Hong Kong Victoria Park
11. Urban Services Department  
Noise monitoring for the events in Hong Kong Stadium
12. Hong Kong Tourist Association  
Noise monitoring for the events in Tamar Site, Central
13. EHS Consultants Limited
  - Ma Wan Succession Noise Measurement
  - Airport Railway noise survey at Ma Wan
14. ELAN Atkins China Ltd.  
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Noise and Vibration Measurement at Room 4, 23/F Block C, Dragon Court.
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Traffic noise monitoring and assessment of effectiveness of road resurfacing.

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Baseline Noise and Air Monitoring at Penny's Bay.
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On-site Noise and Vibration Measurement at Hong Kong International Trade & Exhibition Centre.
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Baseline Noise Monitoring in Hong Kong
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On-site Vibration Measurement of Chiller Room in Housing Department Wang Tau Hom Phase 14.
24. Shen Milsom & Wilke Ltd. (2000 – 2001)  
On-site Vibration Measurement for Chiller Pump in Sheraton (H.K.) Hotel.
25. Leisure and Cultural Services Department (2000)  
Noise monitoring for the events in Hong Kong Stadium
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On site vibration measurement for the project of West Kowloon Drainage Improvement – Stage 2 Kai Tak Transfer Scheme.
27. The Creator Audio-Visual Production Ltd. (2001)  
Noise Monitoring for the events at Kai Tak Ex-Airport.
28. Environmental Protection Department (2001-2002)  
Traffic Noise Measurements in Hong Kong
29. The Hong Kong and China Gas Co. Ltd. (2001-2002)  
On-site Noise Measurement of Air Compressor according to CAP. 400 Noise Control (Air Compressors) Regulations.
30. Fu Wing Motor Co. Ltd (September 2002)  
Vehicle Noise Emission Test
31. DHL International (HK) Ltd. (September 2002)  
Yearly warehouse noise checking 2002
32. The Creator Audio-Visual Production Ltd. (October 2002)

On-site Noise Measurement at Victoria Park

33. Tak Cheong (Yau Kee) Enterprise Limited (November 2002)  
Measurement of Insertion Difference for Telephone Booth in the Reverberation Chamber.
34. EL SHADDAI Prayer Partners Foundation Int'l Ltd (December 2002)  
On-site Noise Monitoring at HK Stadium
35. CH2M Hill (China) Limited (January 2003)  
Industrial Noise Measurement for Ap Lei Chau Boatyards Operation
36. Engineering Impact Limited (January 2003)  
Noise Monitoring at HK Stadium
37. Environmental Protection Department (January 2003 – March 2003)  
Noise Assessment and Digital Video Shooting with Different Types of Construction Activities.

## **Acoustic Consultancy**

1. Intertek Testing Services  
Design and build an anechoic chamber according to ISO 3746 for toy sound power level testing.
2. New Macau Legislative Assembly Building (1999)  
Acoustic consultant for the whole building includes lobby, main hall, theater and S.I. booth.
3. Eastwell Expresswin Co. Ltd. (2001)  
Engineering Estimation of Sound Insulation Performance of “Dost” Partition Systems.
4. Hong Kong Aero Engine Services Limited (HAESL) (2001)  
Design and build of acoustical wall lining for noisy workshops - Fan Blade Rework Cell and Vibratory Trough Room.
5. Sellmax Limited (2001-2002)  
Engineering Estimation of Sound Absorption Coefficient for two modified acoustical wall panels.
6. Jeb Greater China Limited (April 2003)  
Design of double glazing system to meet sound insulation requirement of STC 50.

## **Sound Power and Sound Pressure Measurement**

1. Newton Power Ltd.  
Sound Pressure Level Measurement for two Power Supply Fans in free field condition.
2. Matsushita Seiko Co. Ltd.  
Sound Pressure Level Measurement for Rangehoods Products according to MSK-T-2110.

3. Electrical Core and Motor Manufacturing Ltd.  
FFT Sound Pressure Measurement for three Air Conditioner Motors.
4. Allied Environmental Consultants Ltd.  
Sound Power Measurement for three Vibrating Piling Hammers in accordance with BS 4196:Part4: 1981.
5. Litecraft Electrical & Metal Mfg. Ltd.  
Sound Power Measurement for air handling fluorescent luminaire in accordance with BS 5750.
6. Builders Federal (Hong Kong) Ltd.  
Sound Power Level Testing for a standard fan noise source in accordance with ISO 3740.
7. Melchers (H.K.) Ltd.  
Sound Pressure Level Measurement for hand held stirrer in free field condition.
8. Tack Cheung Plastic Manufactory Ltd.  
Frequency spectrum measurement for Musical Device in free field condition.
9. PI Electronic (H.K.) Ltd.  
Sound Pressure Level Measurement for Power Supply Unit in free field condition.
10. Computime Limited (2001)  
Sound Power Level Measurement for Fans in acoustic chamber.
11. Litecraft Electrical & Metal Mfg. Ltd. (August 2002)  
Sound Power Measurement for air handling fluorescent luminaire in accordance with ASHRAE Standard 70-1991.
12. Igarashi Electric Works (H.K.) Limited (August 2002)  
Sound Power Level Measurement for three Dc motors in the full-acoustic chamber.
13. Ansen Electronics Company (December 2002)  
Sound Power Level Measurement for Ultrasonic Transducer in Semi-anechoic Chamber.

### **Room Acoustics Simulation Modeling**

1. The Hong Kong Polytechnic University. (2000)  
Room acoustics modeling using a 3 dimensional room acoustics computer program, ODEON.
2. Sellmax Limited (2000 – 2001)  
Room acoustics modeling using a 3 dimensional room acoustics computer program, ODEON for Assembly Hall of Primary and Secondary School in Hong Kong.
3. ANDERMAX (HK) Limited (2001 – 2002)  
Room acoustics design and modeling using a 3 dimensional room acoustics computer program, ODEON for Assembly Hall Classroom of Primary and Secondary School in Hong Kong.

4. ANDERMAX (HK) Limited (2001 – 2002)  
Room acoustics design and modeling using a 3 dimensional room acoustics computer program, ODEON for Lecture Theatre of Hong Kong Police Headquarter.
5. City University of Hong Kong (2001 – 2002)  
Architectural acoustics modeling using a 3 dimensional room acoustics computer program, ODEON for acoustical balcony design.

## **Air Flow and Characteristic Measurement**

1. General Electric Company of Hong Kong  
Pressure Drop, Throw and Sound Power Level Measurement according to ASHARE 70-1991.
2. Tamglass Far East Ltd.  
Compressed Air Moisture Content and Oil Content Measurement.
3. New Scientific Trading Co. Ltd.  
Air outlets testing for four types of diffusers with ten different sizes according to ASHARE 70-1991.
4. Arup Acoustics  
Total Suspended Solid (TSP) Monitoring in Sheraton Hotel.
5. Thorn Lighting (Hong Kong) Ltd. (2000)  
Air Flow measurement for air handling fluorescent luminaire.
6. Shinryo (Hong Kong) Ltd. (2000)  
Static Pressure Measurement for Air Duct Damper for TKO, MTR
7. Wysermann Co. Ltd. (2000)  
Static Pressure Measurement for Air Duct Damper.
8. Shinryo (Hong Kong) Ltd. 11 Chater Road Project Office (2001)  
Laboratory Measurement of Flow and Acoustic Performance of Air Valves for 11 Chater Road project.
9. Litecraft Electrical & Metal Mfg. Ltd. (August 2002)  
Airflow, Pressure Drop and Throw Measurement for air handling fluorescent luminaire in accordance with ASHRAE Standard 70-1991.

## **Indoor Air Quality Measurement**

1. RoboClean (Hong Kong) Co. Ltd. (1999-2000)  
Indoor Air Quality measurement for Immigration Tower, Central Government Office, Trade Department Tower, Prince Dental Hospital and Lam Tin Polyclinic.
2. DahSing Bank Ltd. (2000)

Indoor Air Quality measurement at DahSing Financial Center, Mong Kok Bills Center, San Po Kong Branch and Kwun Tong Branch.

3. ASAT Ltd. (2000)  
Indoor Air Quality Assessment for QPL Industrial Building in Tsuen Wan.
4. Info Stream Indoor Air Quality Ltd. (2000)  
Indoor Air Quality measurement at Shatin Sewage Treatment Work.
5. Alfa Environmental Services Co. (2000)  
Yeast and Mould Count measurement at Island Tower in Hong Kong.
6. Nature and Technologies Ltd. (2000)  
Radon measurement at 23 Horizon Drive, Chung Hom Kok, Hong Kong.
7. ENSR International, Inc. (2000)  
TVOC measurement at No. 8 Lei Yue Mun Road Oil Station.
8. CMA Testing Certification Laboratories (April & October 2001)  
TVOC and Radon measurement at Concordia Plaza, No.1 Science Museum Road, Tsimshatsui.
9. Info Stream Indoor Air Quality Ltd. (May 2001)  
Carbon Monoxide, Respirable Suspended Particulates, Total Volatile Organic Compounds, Radon, Airborne Bacteria, Room Temperature, Relative Humidity and Air Movement measurement at Industrial Center, The Hong Kong Polytechnic University, Kowloon, Hong Kong.
10. Homecare Specialty Ltd. (August 2001)  
Airborne Bacteria Count using Swab Kit and RSP measurement at The Kau Yan School, Sai Wan, Hong Kong.
11. Homecare Specialty Ltd. (August 2001)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at The Foreign Correspondents Club, Central, Hong Kong
12. Steamatic Technologies (HK) Ltd. (August 2001)  
Airborne Bacteria, CO<sub>2</sub> and Ozone measurement at CLP Engineering, Kwai Chung, New Territories, Hong Kong.
13. Homecare Specialty Ltd. (August 2001)  
Airborne Bacteria Count using Swab Kit and CO<sub>2</sub> measurement at The Neighbourhood Advice Action Council Yuen Long Day Nursery, Yuen Long, N.T.
14. Homecare Specialty Ltd. (August 2001)  
Airborne Bacteria and CO<sub>2</sub> and Room Temperature measurement at Vogue Laundry Service Ltd., Tuen Mun, N.T., H.K.
15. Homecare Specialty Ltd. (September 2001)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at G-2000 Head Office, Kwai Chung, New Territories, Hong Kong
16. Homecare Specialty Ltd. (November 2001)

Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Superterminal I, Hong Kong Int'l Airport

17. Homecare Specialty Ltd. (November & December 2001)  
Airborne Bacteria, CO<sub>2</sub>, TVOC, Formaldehyde and Ozone concentration measurement at U-FREIGHT LIMITED, Kowloon, Hong Kong.
18. Homecare Specialty Ltd. (December 2001)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Eternal Way Ltd., Wan Chai, Hong Kong.
19. Homecare Specialty Ltd. (January 2002)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Just Gold (Head Office), North Point, Hong Kong
20. Homecare Specialty Ltd. (January 2002)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at United Dragon Ltd., Tuen Mun.
21. Homecare Specialty Ltd. (August 2001 & February 2002)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Tsuen Wan Adventist Hospital, Tsuen Wan, N.T.
22. Steamatic Technologies (HK) Ltd. (February 2002)  
Airborne Bacteria and Yeast & Mould measurement at Lever Shirt G. W. B. & D. Factory Limited., Kwun Tong, Kowloon.
23. Homecare Specialty Ltd. (March 2002)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Lee Kum Kee Tai Po Factory, Tai Po, N.T..
24. Homecare Specialty Ltd. (March 2002)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Clarins Ltd., Kwun Tong, Kowloon.
25. City University of Hong Kong. (May 2002)  
Nitrogen Dioxide measurement at United Christian Hospital, Kowloon, Hong Kong.
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Nitrogen Dioxide measurement at Alice Ho Miu Ling Nethersole Hospital, Kowloon, Hong Kong.
27. City University of Hong Kong. (May 2002)  
Nitrogen Dioxide measurement at Our Lady of Maryknoll Hospital, Kowloon, Hong Kong.
28. City University of Hong Kong. (June 2002)  
Nitrogen Dioxide measurement at Princess Margeret Hospital, Kowloon, Hong Kong.
29. EHTO (Hong Kong) Ltd. (June 2002)  
Airborne Bacteria and RSP measurement at Shun Tak Fraternal Association, Cheung Yu Tung Secondary School, TKO.
30. CY Services Co. (June 2002)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Vitasoy International Holdings Ltd., Tuen Mun, N.T..
31. CY Services Co. (June 2002)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at CLP Power, Black Point Power Station.

32. CY Services Co. (July 2002)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Allan International Holdings Ltd., Quarry Bay, Hong Kong.
33. Steamatic Technology (HK) Ltd.. (July 2002)  
Airborne Bacteria and Yeast and Mould Measurement at Matilda & War Memorial Hospital, Peak Level, Hong Kong.
34. CY Services Co. (July 2002)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at K and P International Holdings Ltd., Kwai Chung.
35. City University of Hong Kong. (July 2002)  
Nitrogen Dioxide measurement at Caritas Medical Centre, Kowloon, Hong Kong.
36. CY Services Co. (July 2002)  
Airborne Bacteria, Yeast and Mould, CO, CO<sub>2</sub>, Room Temperature and Humidity measurement at Adidas-Salomon International Sourcing Ltd., Tsim Sha Tsui, Kowloon.
37. Homecare Specialty Ltd. (September 2002)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Pearson Education North Asia Limited, Quarry Bay, Hong Kong.
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Airborne Bacteria, CO<sub>2</sub> and RSP measurement at OKIA OPTICAL Co. Ltd., Cheung Sha Wan, Kowloon, Hong Kong.
39. CY Services Co. (October 2002)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Epson Precision (HK) Ltd., Kwai Chung, N.T..
40. Steamatic Technology (HK) Ltd. (December 2002)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Flynt International Forwarders Ltd., Tokawan, Kowloon, Hong Kong.
41. Homecare Specialty Ltd. (November 2002)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Mok Law Sui Wah Memorial Sheltered Workshop, Wah Kwai Estate, Aberdeen.
42. Homecare Specialty Ltd. (January 2003)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Leimen Enterprise Limited, Wah Wai Industrial Building, Wo Heung Street, Fotan.
43. Homecare Specialty Ltd. (April 2003)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Joint Publishing (Hong Kong) Co., Ltd., Tusen Wan Industrial Center, Tsuen Wan.
44. Homecare Specialty Ltd. (April 2003)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Lai's Knitwear manufacture Limited, Wing Shing Industrial Building, Ng Fong Street, San Po Kong.
45. CY Services Co. (April 2003)

Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Epson Precision (H.K.) Ltd., Vanta Industrial Center, Tai Lin Pai Road, Kwai Chung.

46. CY Services Co. (April 2003)  
Airborne Bacteria, CO<sub>2</sub>, RSP, TVOC and Radon measurement at Epson Precision (H.K.) Ltd., Ying Tung Industrial Building, Lai Chi Kok Road, Kowloon.
47. Homecare Specialty Ltd. (April 2003)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Texwood International Ltd., How Ming Street, Kowloon Bay.
48. Homecare Specialty Ltd. (April 2003)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Tungtex Trading Co. Ltd., Tungtex Building, Wai Yip Street, Kwun Tong.
49. Homecare Specialty Ltd. (April 2003)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Tat's Carin Tunnel, Siu Lek Yuen, Shatin.
50. Homecare Specialty Ltd. (April 2003)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Smart Shirts Manufacturers Limited, King Yip Street, Kwun Tong.
51. Homecare Specialty Ltd. (April 2003)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Fong Shu Chuen District Elderly Community Center, Shau Kei Wan, Hong Kong.
52. Equity Marketing Hong Kong Limited (April 2003)  
Full IAQ measurement at Equity Marketing Hong Kong Limited at China Hong Kong City, Canton Road, Kowloon.
53. Homecare Specialty Ltd. (May 2003)  
Airborne Bacteria, CO<sub>2</sub> and RSP measurement at Migros (Hong Kong) Ltd., China Hong Kong City, Canton Road, Kowloon.