

香港的樓宇及建築材料 認可測試及檢驗服務

高度專業誠信

廣獲國際承認

技術水平卓越



就樓宇及建築材料而言，香港現有哪些類別的測試及檢驗服務？

實驗所及實地測試服務

- 建築材料物理試驗
- 地基及土力測試
- 實地樓宇診斷測試
- 混凝土、焊接及鋼材無損探測
- 建築組件功能及耐用程度測試
- 儀器校正
- 建築材料 (例如混凝土、水泥、骨料及鋼材等)化學分析



檢驗服務

- 建築工程焊接程序評核
- 建築材料 (例如水務設施及塗料)生產程序檢驗
- 室內空氣質素量度和檢驗

室內空氣質素檢驗

為改善室內空氣質素，以及加強公眾對這方面的關注，環境保護署推出自願參與的「室內空氣質素檢定計劃」。室內空氣質素檢驗機構會就計劃提供下列測量及檢驗服務：

- 實地視察處所/樓宇
- 實地量度多項室內空氣質素參數 (例如空氣流動速度、一氧化碳及總揮發性有機化合物等)
- 評核室內空氣質素是否符合指標

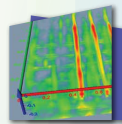


如需更多資料，請瀏覽網站
www.iaq.gov.hk

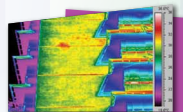
樓宇診斷測試

為配合實施強制驗樓計劃，認可實驗所現正提供下列的樓宇診斷測試服務，協助註冊人員掌握有關樓宇狀況 (例如混凝土強度、滲水情況、侵蝕情況、混凝土剝落情況等)的客觀證據，從而確保樓宇安全：

- 碳化測試
- 氯化物含量測量
- 鋼筋深度檢測
- 半電位法測試
- 紅外線熱像圖法
- 電阻率測量
- 表面硬度測量
- 雷達探測
- 超聲波脈動測試



確定鋼筋佈置的雷達探測 ▲



偵察外牆混凝土剝落的紅外線熱像圖法 ▲

什麼是香港實驗所認可計劃及香港檢驗機構認可計劃的認可服務？

認可服務提供品質保證。香港特別行政區政府創新科技署轄下的香港認可處，根據香港實驗所認可計劃及/或香港檢驗機構認可計劃向機構發出認可資格。這些計劃是自願性質的。只有符合國際標準 ISO/IEC 17025或ISO/IEC 17020的實驗所/檢驗機構，才會獲發認可資格。



香港實驗所認可計劃的標誌 ▲



香港檢驗機構認可計劃的標誌 ▲

使用香港實驗所認可計劃/香港檢驗機構認可計劃認可機構的好處

- 測試/檢驗結果可靠，能節省時間及金錢。
- 測試/檢驗結果獲本地及世界各地廣泛接納。
- 透過嚴格的評審工作密切監察獲認可機構的表現。
- 香港認可處已與亞太區實驗所認可合作組織(APLAC)及國際實驗所認可合作組織(ILAC)簽訂互認安排。香港實驗所認可計劃/香港檢驗機構認可計劃的認許報告，獲超過90個經濟體的認可機構承認。



香港擁有超過80間獲認可的檢測實驗所及檢驗機構，提供高質素的樓宇及建築材料檢測服務。如欲尋找獲認可實驗所/檢驗機構的資料，請瀏覽香港認可處的網站：

www.hkas.gov.hk

香港特別行政區政府於2009年9月成立香港檢測和認證局 (www.hkctc.gov.hk)，作為諮詢機構，以推動行業發展，提升產業的專業水平，並為香港檢測及認證服務打造品牌，加強國際認受性。

Tested in Hong Kong,
Certified in Hong Kong

Hong Kong's Accredited Testing and Inspection Services for Buildings and Construction Materials

High Professional Integrity

High International Recognition

High Technical Competence



What types of testing and inspection services are available in Hong Kong for buildings and construction materials?

Laboratory and on-site testing services

- Physical testing of construction materials
- Foundation and geotechnical testing
- On-site building diagnostic testing
- Non-destructive testing on concrete, welds and steel
- Functional and durability testing of building components
- Calibration of testing equipment
- Chemical analysis of construction materials (e.g. concrete, cement, aggregate and steel, etc.)



Inspection services

- Assessment of welding procedures in construction projects
- Inspection on production of construction materials (e.g. waterworks and paint)
- Indoor air quality measurement and inspection

Indoor air quality inspection

To improve the indoor air quality (IAQ) and promote public awareness, a voluntary IAQ Certification Scheme is launched by Environmental Protection Department. IAQ inspection bodies provide measurement and inspection services for the scheme:

- Walkthrough inspection of premises/buildings
- On-site measurements of IAQ parameters (e.g. air movement, CO and TVOC, etc.)
- IAQ compliance assessment

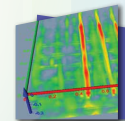
For more information, please visit the website at www.iaq.gov.hk



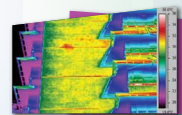
Building diagnostic testing

To facilitate the implementation of Mandatory Building Inspection Scheme (MBIS), HOKLAS-accredited laboratories are providing the following building diagnostic tests to help registered personnel in obtaining objective evidence on building conditions such as concrete strength, water seepage, corrosion, spalling concrete, etc. to ensure building safety:

- Carbonation test
- Chloride content determination
- Covermeter survey
- Half-cell potential measurement
- Infrared thermography
- Resistivity measurement
- Surface hardness measurement
- Surface penetration radar survey
- Ultrasonic pulse velocity measurement



surface penetration radar survey for determination of reinforcement layout



thermography for detection of debonds on the external walls

What are HOKLAS and HKIAS Accreditation?

Accreditation gives you quality assurance. The Hong Kong Accreditation Service (HKAS) under the Innovation and Technology Commission of the Government of Hong Kong Special Administrative Region grants accreditation to organisations under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) and/or the Hong Kong Inspection Body Accreditation Scheme (HKIAS). These are voluntary schemes. Only laboratories/inspection bodies meeting the requirements of international standards ISO/IEC 17025 or ISO/IEC 17020 can achieve accreditation.



HOKLAS symbol



HKIAS symbol

Benefits of the use of HOKLAS/HKIAS-accredited organisations

- Results are reliable, which can save your time and money.
- Results are widely accepted locally and worldwide.
- Organisations' performance is closely monitored through rigorous assessments.
- HKAS has concluded mutual recognition arrangement with Asia Pacific Laboratory Accreditation Cooperation (APLAC) and International Laboratory Accreditation Cooperation (ILAC). HOKLAS/HKIAS endorsed reports are recognized by accreditation bodies in over 90 economies.



Hong Kong has over 80 accredited testing laboratories and inspection bodies providing quality services for buildings and construction materials. If you are looking for an accredited laboratory/inspection body, please visit the HKAS website at:

www.hkas.gov.hk

The Government of the Hong Kong Special Administrative Region set up the Hong Kong Council for Testing and Certification (www.hkctc.gov.hk), an advisory body, in September 2009 to drive the development of the industry, to raise its professional standards and to enhance the recognition of the industry in the international area by building up a brand name for Hong Kong's testing and certification services.