



AN-THAI ENGINEERING COMPANY LIMITED

ENGINEERING TESTING & INSPECTION

安泰工程检测与检验

PROFESSIONAL
PEOPLE
RELIABLE RESULTS
A STRONGER TOMORROW

FIELD
TESTING
REAL
FOUNDATIONS
FOR A SAFER
TOMORROW

BUILD
ON DATA
BUILD
A BETTER
TOMORROW

From Ground to Structure
We Deliver Engineering Integrity

Pile Testing • Geotechnical Investigation • Material Testing • Structural Inspection

桩基检测 • 岩土勘察 • 材料检测 • 结构检验



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ABOUT AN-THAI 关于安泰

An-Thai Engineering Company Limited is a Thailand-based engineering testing and inspection company. Supported by Thai piling expertise, Chinese engineering testing experience, and local professional resources, An-Thai provides practical technical services from foundation to structure.

安泰工程有限公司是一家总部位于泰国的工程检测与检验公司。依托泰国的桩基工程专业经验、中国的工程检测经验以及本地的专业资源，安泰从地基到结构，提供务实的工程技术服务。



PEOPLE
TECHNOLOGY
TRUST
FOR A BETTER
TOMORROW

OUR CAPABILITIES

我们的核心能力



Thailand-based delivery
泰国本地交付

Local team, local knowledge,
responsive service.
本地团队，本地经验，快速响应的服务。



Foundation to structure
从地基到结构

Comprehensive testing and inspection
across the entire construction cycle.
覆盖整个建设周期的全面检测与检验。



Partner laboratory network
合作实验室网络

Collaborate with reputable local
universities and laboratories.
与知名的本地高校和实验室合作。



Bilingual technical coordination
中英文技术协调

Clear communication bridging
international and local stakeholders.
中英文沟通，连接国际与本地合作伙伴。



An-Thai works closely with local universities, accredited laboratories,
and experienced engineering specialists to continuously enhance our
technical capability and deliver reliable, high-quality results for our clients.

安泰与本地高校、认证实验室及资深工程专家紧密合作，不断提升技术能力，
为客户提供可靠、优质的检测与检验成果。

*Building
Safer Foundations
for a Stronger Tomorrow*



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FROM GROUND TO STRUCTURE 从地基到结构

Integrated engineering testing solutions across the full project chain

覆盖项目全链条的一体化工程检测方案

BUILD
ON DATA
BUILD
A BETTER
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PEOPLE
TECHNOLOGY
INTEGRITY
A STRONGER TOMORROW

STATIC LOAD TEST 静载试验

VERIFYING
FOUNDATION PERFORMANCE
FOR A SAFER TOMORROW



HYDRAULIC JACK & DIAL GAUGES
液压千斤顶与位移计

REACTION SYSTEM SETUP
反力系统安装



PURPOSE / 用途

- Determine pile bearing capacity and verify design performance
确定桩的承载力，验证设计性能
- Evaluate load-settlement performance
评估桩的荷载-沉降特性



TYPICAL WORKFLOW / 典型流程

- 1 Reaction system setup
搭建反力系统
- 2 Apply staged loading
分级施加荷载
- 3 Measure settlement
测量沉降
- 4 Interpret results
分析与评定结果



OUTPUTS / 主要成果

- ✓ Load-settlement curve
荷载-沉降曲线
- ✓ Allowable capacity recommendation
提出建议的允许承载力
- ✓ Comprehensive test report
出具完整的试验报告



Suitable for compression, uplift, or lateral loading according to project requirements
可根据项目要求用于抗压、抗拔或水平荷载测试



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HIGH-STRAIN DYNAMIC PILE TEST 高应变动力试验

PILE CAPACITY | PILE INTEGRITY | FOUNDATION CONFIDENCE

REAL
TESTING
REAL DATA
A SAFER
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DROP HAMMER IMPACTS
PILE HEAD
重锤冲击桩顶

INSTRUMENTED WITH
FORCE & VELOCITY SENSORS
安装力与速度传感器

MOBILE & FLEXIBLE
TESTING SOLUTION
灵活高效的
现场检测方案

SUITABLE
FOR VARIOUS
SITE CONDITIONS
适用于多种
工程场地

RELIABLE
EQUIPMENT
RELIABLE RESULTS
可靠设备
可靠的结果

5-STEP TESTING WORKFLOW 五步检测流程



PURPOSE / 用途

- Evaluate pile capacity
评估桩的承载力
- Assess driving stress
分析打桩应力
- Verify pile integrity
验证桩身完整性



TYPICAL OUTPUTS / 主要成果

- Force-velocity traces
力-速度时程曲线
- Dynamic analysis results
动力分析结果
- Integrity assessment
桩身完整性评估
- Professional report
专业检测报告



ADVANTAGES / 优势

- Rapid testing
快速检测
- Immediate results
即时获得结果
- Efficient quality control
提高质量控制效率

From Ground to Structure
We Deliver Engineering Integrity

Geotechnical Testing • Material Testing • Structural Inspection
岩土检测 • 材料检测 • 结构检测



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LOW-STRAIN INTEGRITY TEST

低应变完整性检测

ASSESSING
FOUNDATIONS
FOR A SAFER
TOMORROW



REAL
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TEST PRINCIPLE 检测原理



PURPOSE 用途

- Rapid screening of pile integrity and detection of major defects (e.g., obvious voids, necking, material discontinuity).

快速筛查桩身完整性，
检测重大缺陷（如明显空洞、
缩颈、材料不连续等）。



TYPICAL WORKFLOW 典型流程

- 1 Pile head preparation
桩头表面处理
- 2 Light hammer impact
小锤轻敲激励
- 3 Signal collection
信号采集
- 4 Interpretation of results
结果分析与判定



TYPICAL OUTPUTS 主要成果

- ✓ Reflected wave traces
反射波波形图
- ✓ Anomaly indication
异常位置提示
- ✓ Integrity evaluation
完整性评估
- ✓ Test report
检测报告



Non-destructive, efficient, and suitable
for routine quality control.
无损、高效，适用于常规质量控制。

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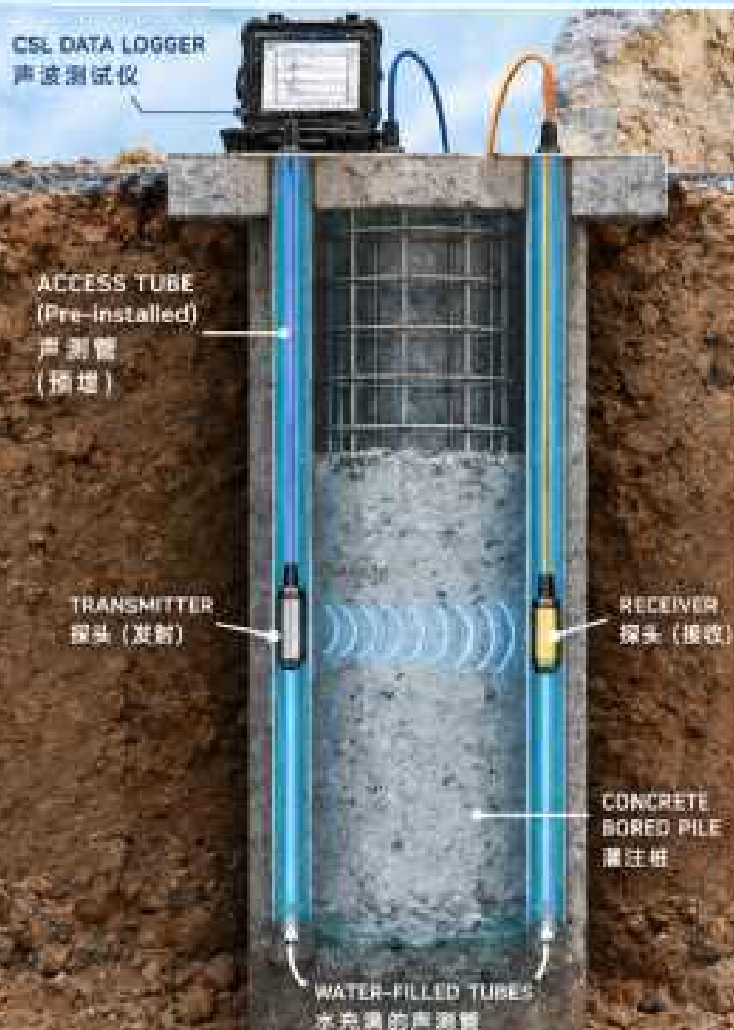
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CROSSHOLE SONIC LOGGING (CSL) 声波透射法



From Foundation
to a Safer Tomorrow



PURPOSE / 用途

- Evaluate the internal quality of bored piles and detect major defects such as voids, necking, inclusions or discontinuities.
- 评估灌注桩的内部质量，检测重大缺陷，如空洞、缩颈、夹杂物或不连续等。



TYPICAL WORKFLOW / 典型流程

- 1 Pre-installed access tubes in bored piles.
在灌注桩中预埋声测管。
- 2 Lower transmitter and receiver probes in water-filled tubes.
将发射和接收探头放入充满水的声测管中。
- 3 Transmit ultrasonic signals across the pile.
发射超声波信号，穿过桩身混凝土。
- 4 Interpret test data to evaluate pile integrity.
分析测试数据，评估桩身完整性。



TYPICAL OUTPUTS / 主要成果

- Profile curves (travel time, signal strength)
测试曲线 (波速、信号强度)
- Identification of anomaly zones
异常区域的识别
- Integrity assessment
桩身完整性评估
- Technical report with interpretation and conclusions
提供包含分析与结论的技术报告



Suitable for cast-in-place bored piles with access tubes
适用于预埋声测管的灌注桩

TYPICAL CSL RESULT / 典型测试结果

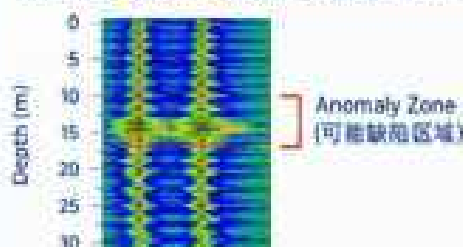




PLATE LOAD TEST & GEOTECHNICAL FIELD TESTING

平板载荷试验与 岩土现场测试

REAL GROUND DATA
FOR SAFER AND
BETTER FOUNDATIONS



JACK AND DIAL-GAUGE SETUP
千斤顶与位移计布置

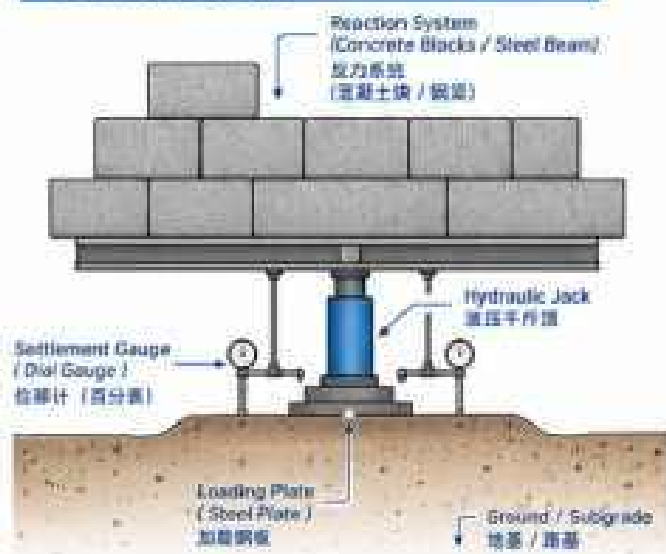


FIELD TEST IN PROGRESS
现场试验进行中



HYDRAULIC PUMP AND GAUGE
液压泵与压力表

SCHEMATIC OF PLATE LOAD TEST 平板载荷试验示意图



PURPOSE / 用途

- Evaluate subgrade or ground bearing behavior and deformation under applied load.
- 评估路基或地基在荷载作用下的承载特性与变形特性。



TYPICAL WORKFLOW / 典型流程

- 1 Setup reaction system, loading plate and instrumentation.
布置反力系统、加载板及监测仪器。
- 2 Apply load in stages.
分级施加荷载。
- 3 Record settlement at each load stage.
在各级荷载下记录沉降。
- 4 Interpret results and evaluate ground performance.
分析试验结果，评估地基性能。



TYPICAL OUTPUTS / 主要成果

- Load-settlement curve.
荷载-沉降曲线。
- Modulus of subgrade reaction or bearing capacity indication.
地基反力模量或承载力指标。
- Field test report with analysis and recommendations.
现场测试报告 (含分析与建议)。



Geotechnical field testing provides reliable in-situ data to support foundation design and construction control, helping to build safer and more durable structures.

岩土现场测试提供可靠的原位数据，支持基础设计与施工控制，助力建设更安全、更持久的工程结构。



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PARTNER LABORATORY NETWORK

合作实验室网络

Local laboratory support for soil, material, and structural testing
土工、材料与结构检测的本地实验室支持



PRESSURE & PERMEABILITY TESTING
压力与渗透试验



SOIL TESTING EQUIPMENT
土工试验设备



MATERIAL TESTING EQUIPMENT
材料试验设备



SHEAR TESTING APPARATUS
剪切试验设备



SAMPLE PREPARATION & FIELD-SIMULATION TESTING
试样制备与现场模拟试验



LABORATORY COORDINATION & MEETING
实验室协调与技术交流



SOIL TESTING 土工试验

- Soil classification & index tests
- Compaction & CBR tests
- Permeability & consolidation
- Shear strength testing (UU, CU, CD)
- 土样分类与物理性质试验
- 击实与CBR试验
- 渗透与固结试验
- 剪切强度试验 (UU, CU, CD)



CONCRETE & MATERIAL TESTING 混凝土与材料试验

- Concrete compressive strength
- Cement, aggregate, and admixtures
- Steel and structural materials
- Material quality and compliance
- 混凝土抗压强度试验
- 水泥、骨料与外加剂试验
- 钢材及结构材料试验
- 材料质量与标准符合性验证



STRUCTURAL / SPECIALIZED TESTING 结构与专项试验

- Structural component testing
- Load, deformation and durability
- Non-destructive testing (NDT)
- Specialized testing as required
- 结构构件试验
- 荷载、变形与耐久性试验
- 无损检测 (NDT)
- 其他专项试验 (按项目需求)



TECHNICAL COORDINATION 技术协调

- Network of qualified local laboratories and universities
- Test planning and method selection
- Result review and technical consultation
- Support for project-specific requirements
- 与本地合格实验室及高校合作
- 试验方案制定与方法选择
- 试验结果审核与技术咨询
- 支持项目的特殊需求



COLLABORATION FOR HIGHER STANDARDS / 携手合作 - 追求更高标准

AN-THAI collaborates with qualified local laboratories and leading universities to provide reliable and comprehensive testing services. Through our established partner network, we ensure high technical standards, accurate results, and timely support for every project.

安泰工程与具备资质的本地实验室及知名高校建立长期合作关系，提供可靠、全面的检测服务。通过完善的合作实验室网络，我们确保高技术标准、准确的检测结论以及及时的项目支持。

TRUSTED PARTNERS
STRONGER PROJECTS
BRIGHTER TOMORROW



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ENGINEERING TESTING & INSPECTION

安泰工程检测与检验

PROFESSIONAL PEOPLE
RELIABLE RESULTS
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SELECTED EXPERIENCE

代表项目经验

REAL PROJECTS
REAL SOLUTIONS
FOR A BETTER TOMORROW



INDUSTRIAL PLANTS
工业厂房与生产设施

- Power & Energy Plants
- Petrochemical & Process Facilities
- Industrial Utilities



LOGISTICS FACILITIES
物流与仓储设施

- Distribution Centers
- Warehouses
- Cold Storage Facilities



**BRIDGE AND
INFRASTRUCTURE WORKS**
桥梁与基础设施工程

- Bridges & Elevated Structures
- Roads & Expressways
- Rail & Transit Projects
- Civil Infrastructure



FACTORY DEVELOPMENTS
工厂建设项目

- Manufacturing Facilities
- Production Buildings
- Industrial Estates
- Plant Expansion Projects



**DATA CENTER AND
COMMERCIAL PROJECTS**
数据中心与商业项目

- Data Centers
- Office Buildings
- Commercial Complexes
- Mixed-Use Developments



FOUNDATION TESTING PROJECTS
地基检测项目

- Pile Load Testing
- Foundation Integrity Testing
- Test Pile Programs
- Ground Improvement Verification



GEOTECHNICAL SUPPORT
岩土工程技术支持

- Geotechnical Investigation
- Soil and Rock Assessment
- Foundation Design Support
- Ground Condition Evaluation



**MATERIAL AND
STRUCTURAL TESTING SUPPORT**
材料与结构检测支持

- Construction Material Testing
- Concrete, Steel and Other Materials
- Structural Inspection & Assessment
- Quality Control and Compliance

Service Scope / 服务范围



Pile Testing
桩基检测



Geotechnical Investigation
岩土勘察



Plate Load Test
地基承载力试验



Material Testing
材料检测



Structural Inspection
结构检验

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Wechat

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