

I.E.C

Independent Geosynthetics Testing Laboratory

Established 2012 | CNAS L8463 | ISO/IEC 17025 Accredited



工环建测试
I.E.C. TESTING AND SERVICE

Dalian IEC Testing Service Co., Ltd.

Address: BDS-East 01, West Industrial Park, Yinggang Road, Shagangzi Village,
Yingchengzi Sub-district, Ganjingzi District, Dalian, Liaoning, China

Tel: +86 411 8669 2019 **Fax:** +86 411 8669 2019 **Web:** www.geo-textile.com

E-mail: Dothan@geo-textile.com



CNAS认证实验室
ISO/IEC17025:2017



工环建测试
I.E.C. TESTING AND SERVICE

ABOUT US

Dalian IEC Testing Service Co., Ltd. is an independent third-party testing laboratory specialising in geosynthetics and related materials. Since 2012, the laboratory has supported manufacturers, contractors, consultants and project owners through reliable testing services aligned with international standards. Operating under a CNAS-accredited ISO/IEC 17025 quality system, Dalian IEC combines laboratory competence with practical industry knowledge to support product compliance, quality improvement and technical decision-making.

Why Clients Choose Dalian IEC

- **Multi-Standard Testing Expertise**
Ability to perform testing in accordance with GB/T, ASTM, ISO, EN and AS standards, supporting clients across multiple international markets.
- **Geosynthetics-Focused Technical Knowledge**
Specialised experience in geotextiles, geocomposites and related materials, supported by years of industry engagement.
- **Accredited & Internationally Recognised**
CNAS-accredited laboratory operating under ISO/IEC 17025:2017, with internationally recognised test reports through ILAC arrangements.
- **Supporting Product Development & Quality Improvement**
Beyond compliance testing, the laboratory supports manufacturers in product optimisation, troubleshooting and quality enhancement initiatives.



OUR TEAM

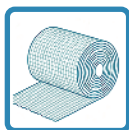
Technical Expertise Backed by Industry Experience

Our technical team combines laboratory testing expertise with practical experience gained from supporting geosynthetics manufacturers, infrastructure projects and product development initiatives.

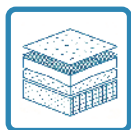
Beyond conducting standard compliance testing, our team understand how material selection, manufacturing processes and quality control practices influence product performance. This enables us to provide meaningful technical insights that help clients evaluate, improve and optimise their products.

The team currently comprises six full-time testing engineers, including senior and intermediate technical personnel with extensive experience in geosynthetics testing, quality assurance and international testing standards.

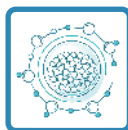
Technical Focus Areas



Geotextiles



Geocomposites



Polymer Materials



Quality Improvement



Product
Development
Support



International
Testing
Standards

Dalian IEC Testing Service Co., Ltd.

Address: BDS-East 01, West Industrial Park, Yinggang Road, Shagangzi Village,
Yingchengzi Sub-district, Ganjingzi District, Dalian, Liaoning, China
Tel: +86 411 8669 2019 Fax: +86 411 8669 2019 Web: www.geo-textile.com
E-mail: Dothan@geo-textile.com



工环建测试
I.E.C. TESTING AND SERVICE



OUR FACILITY

(Purpose-Built Testing Environment)

Dalian IEC operates a dedicated testing facility designed to support the mechanical, hydraulic and physical evaluation of geosynthetics and related materials.

The laboratory maintains controlled testing conditions and a comprehensive range of specialised equipment to support testing in accordance with international standards including GB/T, ASTM, ISO, EN and AS methodologies.

Our facilities are designed to ensure testing consistency, repeatability and reliability, supporting both routine compliance testing and advanced technical evaluations.

Laboratory Resources

- ✓ 500 m² Dedicated Testing Facility
- ✓ Hydraulic Performance Testing
- ✓ Environmental Conditioning Systems
- ✓ ISO/IEC 17025 Quality Framework
- ✓ Mechanical Performance Testing
- ✓ Polymer Material Evaluation
- ✓ International Standards Support



Universal Testing Equipment



Hydraulic Testing Systems



Environmental Conditioning Equipment



Sample Preparation Area

Dalian IEC Testing Service Co., Ltd.

Address: BDS-East 01, West Industrial Park, Yinggang Road, Shagangzi Village,
Yingchengzi Sub-district, Ganjingzi District, Dalian, Liaoning, China
Tel: +86 411 8669 2019 Fax: +86 411 8669 2019 Web: www.geo-textile.com
E-mail: Dothan@geo-textile.com



工环建测试
I.E.C. TESTING AND SERVICE

TECHNICAL CAPABILITIES

Delivering Reliable Testing Across International Standards

Dalian IEC provides testing services for geosynthetics and related materials in accordance with internationally recognised standards including GB/T, ASTM, ISO, EN and AS methodologies.

Our testing capabilities support manufacturers, consultants, contractors and project owners in product qualification, quality control, technical evaluation and delivered samples compliance verification.

AREAS OF EXPERTISE

Mechanical Performance

- ◆ Wide-width tensile properties
- ◆ Grab tensile strength
- ◆ Trapezoidal tear resistance
- ◆ Static puncture resistance (CBR)
- ◆ Dynamic perforation resistance
- ◆ Bond strength evaluation
- ◆ Compression performance

Physical Properties

- ◆ Mass per unit area
- ◆ Thickness
- ◆ Apparent Opening Size (AOS)
- ◆ Density and specific gravity

Hydraulic Performance

- ◆ Vertical permeability
- ◆ In-plane transmissivity
- ◆ Flow rate per unit width
- ◆ Filtration-related properties

Polymer Evaluation

- ◆ Carbon black content
- ◆ Melt Flow Rate (MFR)
- ◆ Melt Volume Rate (MVR)
- ◆ Thermal ageing assessment
- ◆ UV resistance evaluation

Supporting the Geosynthetics Industry

Our laboratory supports testing requirements for:

- ✓ Geotextiles
- ✓ Geogrids
- ✓ Geocomposites
- ✓ Drainage Geocomposites
- ✓ Geomembranes
- ✓ Polymer Materials

Dalian IEC Testing Service Co., Ltd.

Address: BDS-East 01, West Industrial Park, Yinggang Road, Shagangzi Village,
Yingchengzi Sub-district, Ganjingzi District, Dalian, Liaoning, China
Tel: +86 411 8669 2019 Fax: +86 411 8669 2019 Web: www.geo-textile.com
E-mail: Dothan@geo-textile.com



工环建测试
I.E.C. TESTING AND SERVICE

ACCREDITATION & TECHNICAL COMPETENCE

Confidence Through Accreditation

Dalian IEC Testing Service Co., Ltd. operates under a quality system accredited to ISO/IEC 17025:2017, the internationally recognised standard for testing laboratory competence.

Since 2016, the laboratory has maintained accreditation from the China National Accreditation Service for Conformity Assessment (CNAS), demonstrating technical competence in performing testing activities, maintaining quality assurance processes and generating reliable test results.

Through international mutual recognition arrangements under the International Laboratory Accreditation Cooperation (ILAC), accredited test reports issued by Dalian IEC are recognised by organisations and accreditation bodies in numerous jurisdictions worldwide.

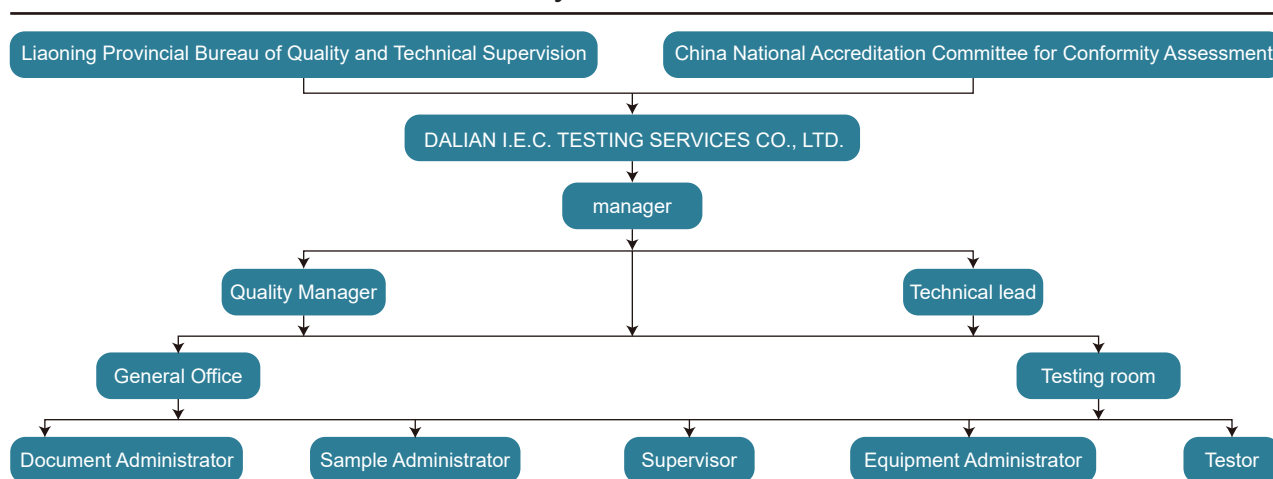
Accreditation At A Glance



Accreditation Body	China National Accreditation Service Conformity Assessment (CNAS)
Accreditation Number	CNAS L8463
CNAS L8463	ISO/IEC 17025:2017
Accredited Since	Accredited Since
Current Validity	Through April 2028
International Recognition	ILAC Mutual Recognition Arrangement (MRA)



Quality Framework Icon



Dalian IEC Testing Service Co., Ltd.

Address: BDS-East 01, West Industrial Park, Yinggang Road, Shagangzi Village,
Yingchengzi Sub-district, Ganjingzi District, Dalian, Liaoning, China
Tel: +86 411 8669 2019 Fax: +86 411 8669 2019 Web: www.geo-textile.com
E-mail: Dothan@geo-textile.com



工环建测试
I.E.C. TESTING AND SERVICE

OUR QUALITY FRAMEWORK

At Dalian IEC, the reliability of every test result is supported by a structured quality system built upon internationally recognised laboratory practices.



Our quality framework includes:

- ▶ Competent and trained personnel
- ▶ Validated testing methods
- ▶ Equipment calibration and traceability
- ▶ Controlled testing environments
- ▶ Internal quality control procedures
- ▶ Documented management systems
- ▶ Continuous monitoring and improvement

What ISO/IEC 17025 Means For Clients

ISO/IEC 17025 accreditation provides confidence that:

- * Testing is performed by competent personnel.
- * Equipment is properly maintained and calibrated.
- * Methods are technically validated and consistently applied.
- * Results are traceable, reliable and reproducible.
- * Quality assurance procedures are independently assessed.

Dalian IEC Testing Service Co., Ltd.

Address: BDS-East 01, West Industrial Park, Yinggang Road, Shagangzi Village,
Yingchengzi Sub-district, Ganjingzi District, Dalian, Liaoning, China
Tel: +86 411 8669 2019 Fax: +86 411 8669 2019 Web: www.geo-textile.com
E-mail: Dothan@geo-textile.com



工环建测试
I.E.C. TESTING AND SERVICE

SCOPE UNDER ACCREDITATION EXPANSION

We are actively expanding our technical capabilities.

The following testing parameters are currently in the process of CNAS accreditation expansion:



- ✓ Density and specific gravity of plastics
- ✓ Melt mass-flow rate (MFR) & melt volume-flow rate (MVR) of thermoplastics
- ✓ Carbon black content in olefin plastics (for UV resistance evaluation)
- ✓ In-plane transmissivity / flow rate per unit width of geosynthetics
- ✓ Ply adhesion bond strength of geocomposites
- ✓ Compressive performance of geosynthetics

Dalian IEC Testing Service Co., Ltd.

Address: BDS-East 01, West Industrial Park, Yinggang Road, Shagangzi Village,
Yingchengzi Sub-district, Ganjingzi District, Dalian, Liaoning, China
Tel: +86 411 8669 2019 Fax: +86 411 8669 2019 Web: www.geo-textile.com
E-mail: Dothan@geo-textile.com



工环建测试
I.E.C. TESTING AND SERVICE



OUR COMMITMENT

With our solid infrastructure, rigorous management systems, and strong technical expertise, Dalian IEC Testing Service Co., Ltd. is committed to delivering impartial, accurate, and efficient testing services. We provide trusted data and peace of mind to engineers, manufacturers, and contractors globally, and we look forward to building long-term, mutually beneficial partnerships across industries.

Dalian IEC Testing Service Co., Ltd.

Address: BDS-East 01, West Industrial Park, Yinggang Road, Shagangzi Village,
Yingchengzi Sub-district, Ganjingzi District, Dalian, Liaoning, China
Tel: +86 411 8669 2019 Fax: +86 411 8669 2019 Web: www.geo-textile.com
E-mail: Dothan@geo-textile.com



工环建测试
I.E.C. TESTING AND SERVICE