

Norsk Treteknisk Institutt (NTI)

R&D centre for Norwegian wood industry

Private research association

Established 1949

Annual turnover approx. 33 mill. NOK. 37 employees

150 member companies: sawmills, glulam- and roof truss manufacturers, woodworking industry, wood preservation industry and suppliers of machines and equipment



Leading edge competence



Gluing



Drying



Grading



Activities

- R&D projects
- Dissemination of knowledge
- Contract work
- Quality control schemes
- Documentation of properties and quality
- Accredited laboratories
- Standardisation
- International network

Laboratories - Mechanical testing

Accredited since 1994

Testing of:

- Load bearing timber
- Glulam beams
- Solid wood
- Finger joints
- Engineered Wood Products
- Wood-based panels
- Mechanical connections
- Glued joints
- Wood composites



Laboratories - Chemical analysis

- Accredited since 1994
- Analysis of:
 - Preservatives
 - Preservative treated wood
 - Formaldehyde
- Testing of durability and properties:
 - Wood protection
 - Fire retardants
 - Surface coatings



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Testing fields

- Sørkedalen (near Oslo)
- Birkenes (European rot index)
- Cooperation with Nordic Wood Protection Council (NTR)
- Life expectancy of impregnated wood
- Life expectancy of surface treated wood



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Laboratories - Drying of wood

- Kiln experiments
- Development of optimal drying process for various products og wood species
- Testing of control systems
- Climatic test chamber for accurate determination of equilibrium moisture content



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Quality documentation

- Accredited according to EN 45001 for mechanical testing and chemical analysis of wood materials
- Testing according to approved standards (EN, DIN, BS, etc.)
- Approved as RCO and TTO for JAS-certification
- TRADA certification for UK
- Testing/inspection for SKH (Holland)
- Testing/inspection for FMPA (Germany)
- Ü-mark for wood products to Germany
- Notified Body for CE-marking



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Quality control schemes

- Norwegian stress grading inspection scheme
- Norwegian control scheme for preservative treated wood
- Norwegian glulam control: Glued endjointed materials for loadbearing constructions



Information and diffusion of knowledge

- Specialized library within wood technology
 - Comprises 14.000 books/reports and 130 professional journals
 - National and international databases
- Publications
 - Treteknisk Informasjon
 - Information on Internet
 - Reports
 - Books
 - Wood information - FOKUS på tre
- Answering service
 - Member companies / consumers / authorities



Characteristics of NTI

Close relations to industry and good knowledge of the trade

Comprehensive national and international networks

Experience in user managed projects

Results oriented R&D

High competence in wood technology

Good financial position



Vision

NTI shall be the R&D base, the centre of competence and meeting place for Norwegian wood working industry.

Business concept

NTI shall work for profitability of the member companies by using updated knowledge of timber and wood – its properties, machining and application.

The means are R&D by results, diffusion and knowledge, advisory service and quality documentation.

