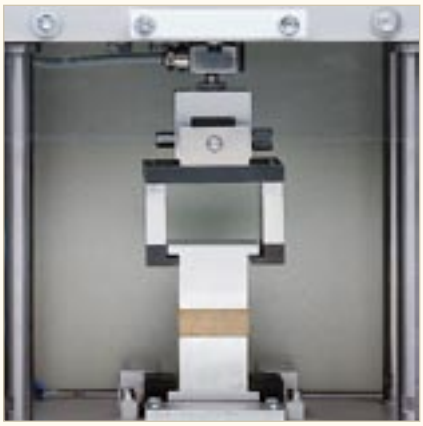
LABROB

Quality Control
with the Laboratory Panel Testing System

GreCon®

If the mechanical features of wood based panels deviate from nominal values, their usefulness to the customer will be limited. The reduction in the panel's price and profits are the results.

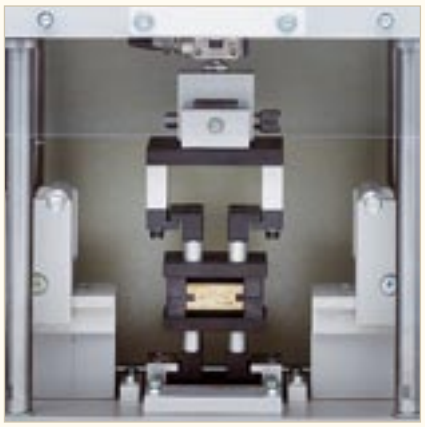
With the panel testing system Labrob, the mechanical quality features of wood based panels can be easily and precisely determined. Measurement can be carried out according to European Standards (EN) or, for the measurement of internal bond strength, according to alternative testing methods. The alternative measuring methods supply the results within a few minutes.



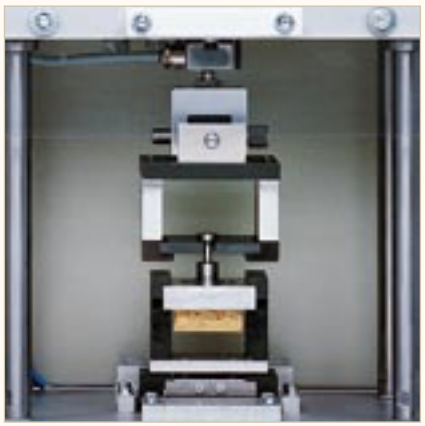
Internal bond strength
(EN 319)

Construction of the Testing System

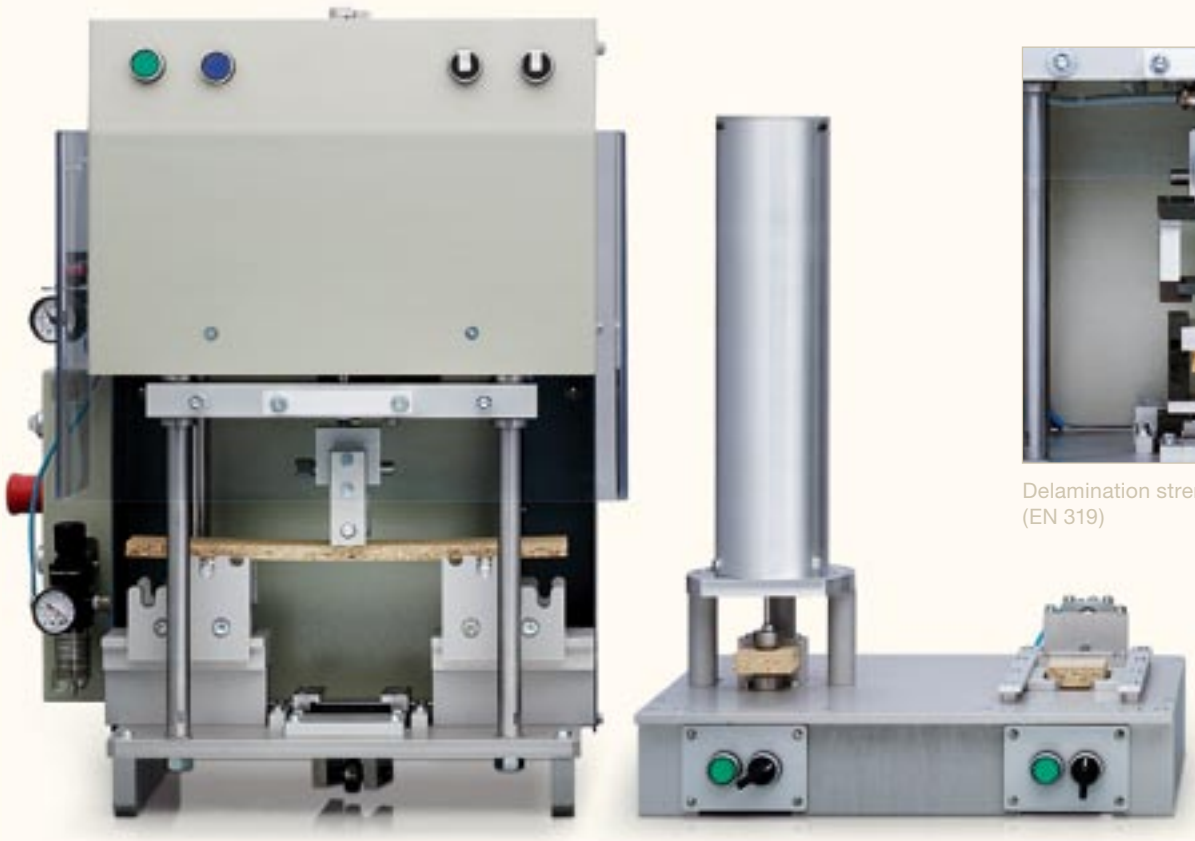
The Labrob consists of the testing device and a visualisation computer as evaluation unit. Optionally, all components can be arranged on an ergonomic laboratory working station. The testing device is of a modular design, i.e., the Labrob can be configured individually. A plexiglass safety hood covers the movable parts to protect the operator.



Internal bond strength of grooved sample strips (quick alternative method)



Delamination strength of surface layer
(EN 319)



Testing Programs

- Internal bond stength (EN 319)
- Bending strength (EN 310)
- Modulus of elasticity (EN 310)
- Delamination strength of surface layer (EN 319)
- Raw density (EN 323) and alternative method
- Size (EN 325) and alternative method
- Screw holding capacity (EN 320)
- Internal bond strength of grooved samples (quick alternative method)
- Shear strength (quick alternative method)

In combination with other laboratory equipment, such as tanks and drying ovens, the following tests can also be carried out:

- Thickness swell and water sorption (EN 317)
- Moisture content (EN 322)
- Boiling test (EN 1087)

Software

The visualisation software of all GreCon measuring systems is based on Windows. The software of the Labrob consists of the following program modules:

- Visualisation

The core of the software package is the visualisation software. It records, stores and graphically represents all measured data. The simple menu structure makes an intuitive operation possible. Clear information and graphics enable the operator to work quickly and effectively. The graphical representation of the measured values as well as the statistical evaluation is done according to EN 326-2.

- History Data Base

This data base stores the measured values and provides a function to export them to other file formats for further processing and evaluation.

Technical Specifications

- Mains voltage: ..... 230 V / 115 V
- Frequency: ..... 50 Hz / 60 Hz
- Power consumption: ..... 750 VA
- Compressed air consumption: ..... 6 bar / 90 psi

References

- Particleboard
- Fibreboard
- OSB board
- Plywood

GreCon

Fagus Factory, constructed by Walter Gropius in 1911

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