Fagus-GreCon
Greten GmbH & Co. KG

P.O. Box 1243
D-31042 Alfeld-Hanover

Phone +49(0)5181-79-0
Fax +49(0)5181-79-229
E-Mail sales@grecon.com

www.grecon.com

GreCon

Reliable Establishment of the Raw Density Profiles of Laboratory Samples

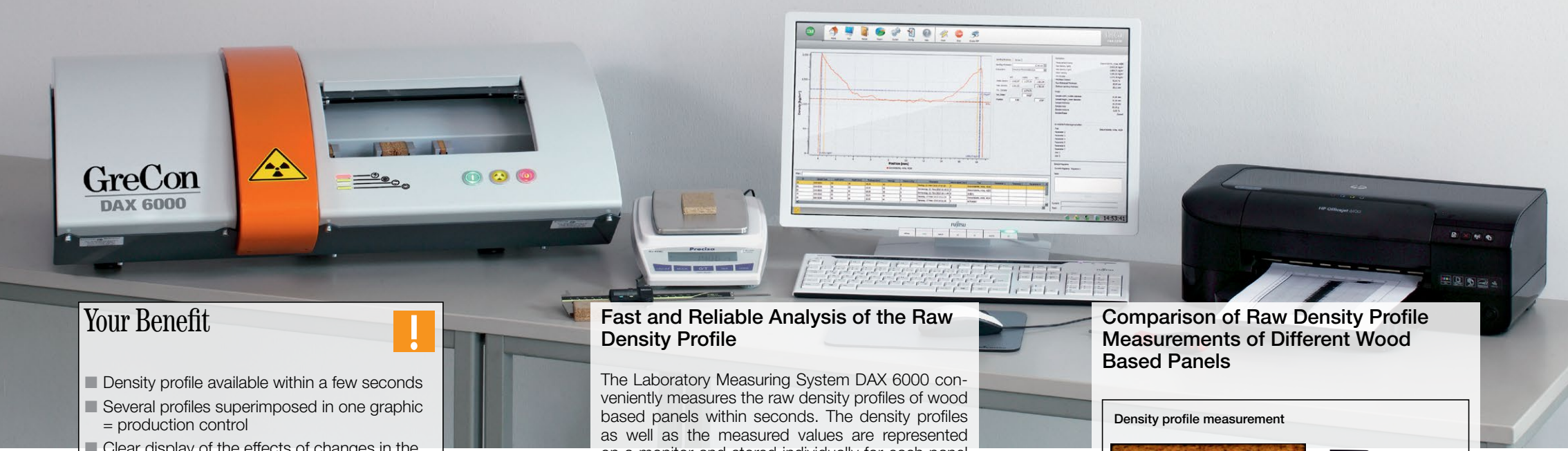
GreCon
Fire Protection

GreCon
Measuring Technology

GreCon
Service

DAX 6000

EN | R.01 | 2015.04
Subject to technical and country-specific modifications.
© Fagus-GreCon Greten GmbH & Co. KG



Your Benefit

- Density profile available within a few seconds
- Several profiles superimposed in one graphic = production control
- Clear display of the effects of changes in the production
- Material savings by analysing, monitoring, understanding, and adapting
- Easy data export to CSV or XML data formats
- Can be combined with other laboratory measuring devices
- Quick amortisation
- Extended temperature range up to 40 °C
- Preparation of samples during an ongoing measuring process
- Output of a graphical report in PDF format

Why GreCon

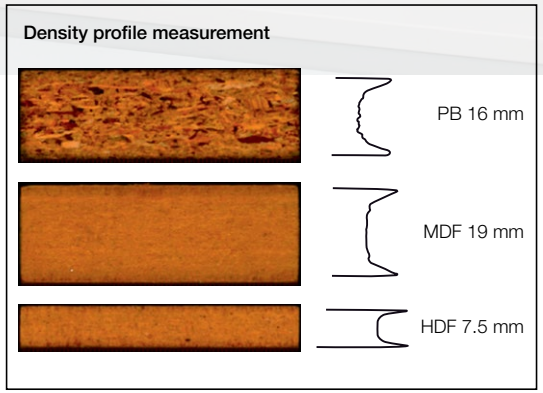
- Flexible use with various products
- Verification of the system by measuring a reference sample possible at any time
- The system complies with the x-radiation protection requirements
- Long-life X-Ray tube
- Variable, automatic measuring speed
- PC embedded in measuring system
- Compact and small shape
- Low maintenance

Fast and Reliable Analysis of the Raw Density Profile

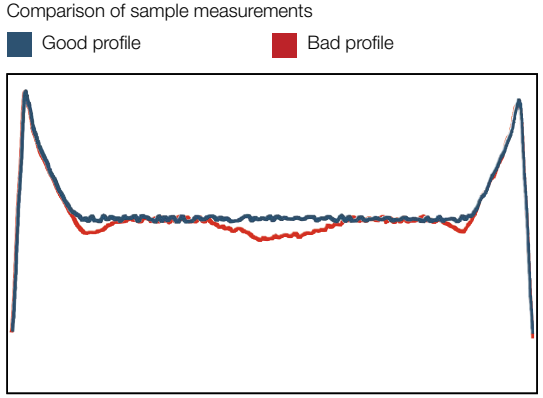
The Laboratory Measuring System DAX 6000 conveniently measures the raw density profiles of wood based panels within seconds. The density profiles as well as the measured values are represented on a monitor and stored individually for each panel sample.

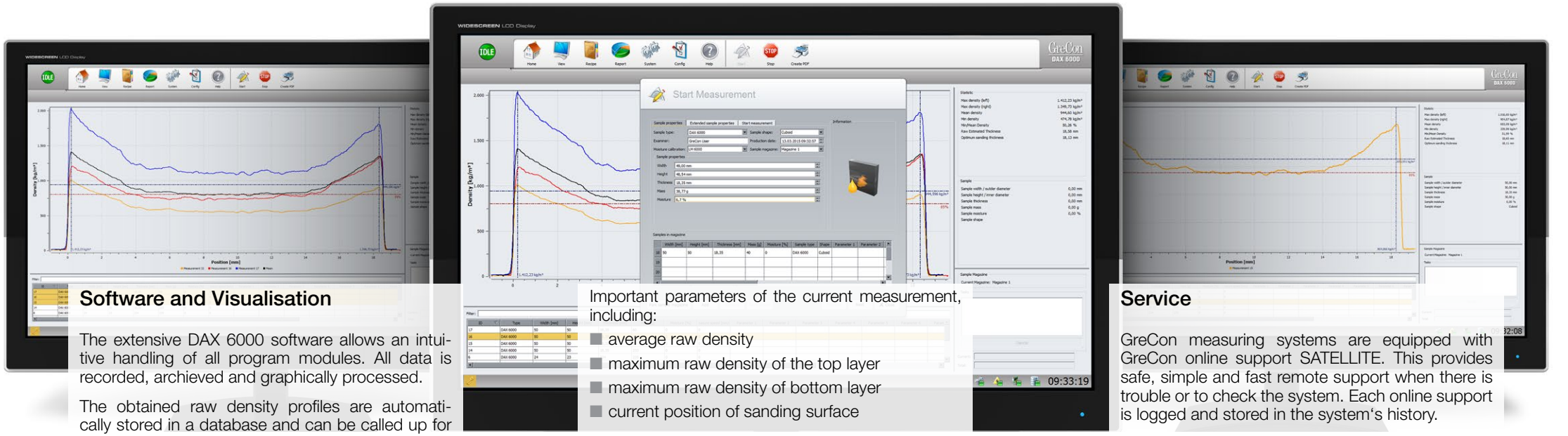
The high-precision measuring results are used to adapt the production process quickly.

Comparison of Raw Density Profile Measurements of Different Wood Based Panels



Comparison of sample measurements





Software and Visualisation

The extensive DAX 6000 software allows an intuitive handling of all program modules. All data is recorded, archieved and graphically processed.

The obtained raw density profiles are automatically stored in a database and can be called up for additional analysis at any time. For comparison, the density profiles of several samples can be superimposed in one graphic. Furthermore, the database provides the following advantages:

- Access to the database via network using the visualisation software
- Administration of users and access rights
- Back-up and Restore of the database possible
- Support of Asian fonts / characters

The integrated export function can be utilised to make the data available for other programs.

Important parameters of the current measurement, including:

- average raw density
- maximum raw density of the top layer
- maximum raw density of bottom layer
- current position of sanding surface

These are shown in numerical form after the measuring process and their position identified within the raw density profile.

Comprehensive functions for an in-depth evaluation and analysis of the raw density profiles include:

- Zooming into sections of the raw density profiles
- Comparative measurements of various board samples
- Averaging of several measurements
- Determining the optimal sanding surface
- In-depth analysis of the surface layer

Network Connection

Access to the database from different computers is possible. The density profiles can be automatically exported to CSV or XML formats.

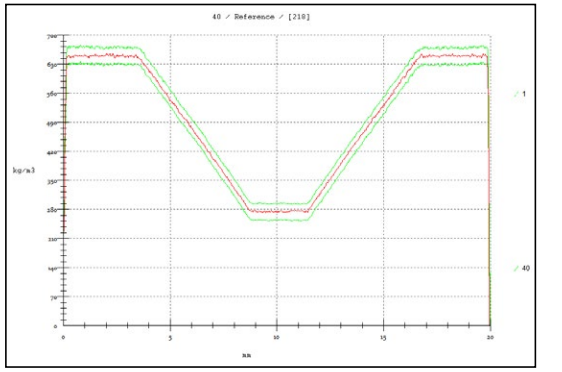
Service

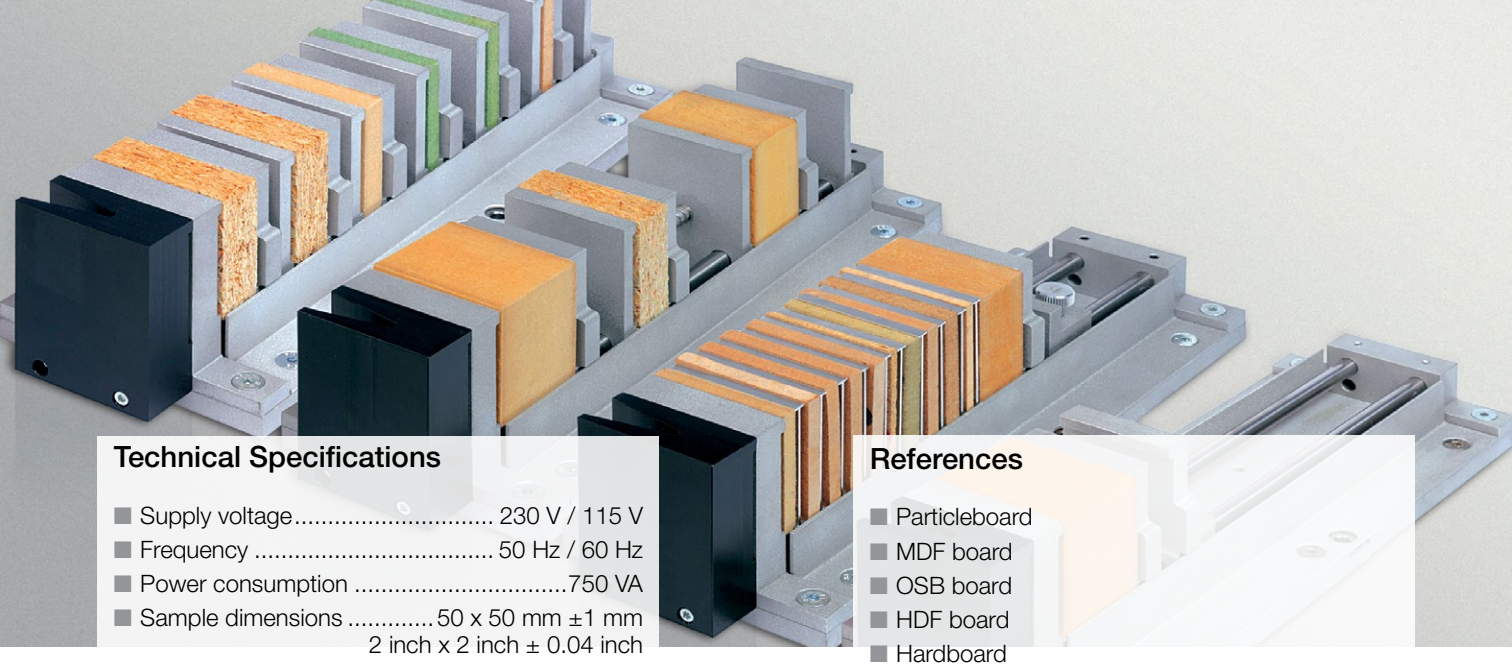
GreCon measuring systems are equipped with GreCon online support SATELLITE. This provides safe, simple and fast remote support when there is trouble or to check the system. Each online support is logged and stored in the system's history.

Reference measurement

To obtain measuring results with consistently high precision, the sample magazines are equipped with reference samples. These samples are measured by GreCon prior to delivery and serve an optimum adjustment. The measuring system can be checked for proper calibration at any time by measuring the reference samples.

Density profile of reference sample





Technical Specifications

- Supply voltage ..... 230 V / 115 V
- Frequency ..... 50 Hz / 60 Hz
- Power consumption ..... 750 VA
- Sample dimensions ..... 50 x 50 mm ±1 mm
  2 inch x 2 inch ± 0.04 inch
- Material sample ..... Wood compounds
- Measuring range ..... up to 1500 kg/m³
  94 lbs/cuft
- Feed speed ..... from 0.1 to 1 mm/s
- Increments ..... 20 µm
- Calibration ..... automatic
  with internal calibration
- Measuring accuracy ..... ± 0,5 %
  of measuring range
- Number and maximum sample thickness for
  Holder 1 ..... 6 samples up to 20 mm
  up to 0.75 inch
  Holder 2 ..... 3 samples up to 50 mm
  up to 2 inch
  Holder 3
  (Flexi-Magazine) ..... 1 sample up to 150 mm
  up to 6 inch
- Ambient temperature ..... 40 °C
- Relative humidity ..... recommended up to 60 %
- Dimensions ..... 790 mm x 620 mm x 240 mm
  (W x D x H)
- Upgrade ..... from DAX 5000
  to DAX 6000 possible

References

- Particleboard
- MDF board
- OSB board
- HDF board
- Hardboard
- Furniture industry
- Glue producers
- Cork processing
- Testing institutions
- Universities and research laboratories

The DAX 6000 can be used in the laboratory as well as in the control room.

DAX 6000 with equipped sample magazines