

## WKI-QA – Round Robin Test

### General information\_mechanical properties

#### General Information

Quality system requirements to avoid/minimize process inaccuracies concerning test methods become increasingly important, especially in terms of certification and accreditation processes. Hence, Fraunhofer Institut für Holzforschung – WKI – organizes interlaboratory comparisons (Round Robin Tests, RRTs) for mechanical test methods.

Starting in the second half of 2012, we invite interested factory laboratories and accredited laboratories to participate in the “WKI-QA - Round Robin Test\_2012” for the mechanical test methods mentioned below.

Costs for participation will be charged depending on the test methods requested and include the sample preparation, the evaluation, and the report over all anonymized test results in written form. Sample shipment will be charged extra due to different costs and will be mentioned separately in the invoice.

The following page shows an application to participate. In case of interest, please fill out the application form and choose one or more of the provided testing methods.

Please send it back to [mathias.belda@wki.fraunhofer.de](mailto:mathias.belda@wki.fraunhofer.de) until **August 31<sup>st</sup>, 2012**.

#### Test methods

The following test methods are provided:

- Density-EN 323
- Moisture content-EN 322
- Internal bond-EN 319
- Internal bond, boil test-EN 1087-1
- Surface soundness-EN 311
- Modulus of elasticity/rupture-EN 310
- Thickness swelling-EN 317
- Resistance to axial withdrawal of screws-EN 320
- Bonding quality-EN 314-2 (Plywood)

#### Test samples

Two sample types with different thicknesses (either particleboard or MDF) will be allocated for the different test methods. For testing the bonding quality according to EN 314-2, plywood will be provided. The test material will be cut to sample size and forwarded to each participant in sufficient quantity (according to EN-standards).

#### Sample handling, testing time and evaluation

Each participant will receive a detailed description of sample handling and process of the RRT (in addition to E-mail) with the specimen. After testing, the participants send the results back to WKI, where the data will be evaluated. All participants will be informed individually about all anonymized results and can identify their own results by a known random number.

#### WKI-QA- Round Robin Test - Important dates 2011:

Ordering test samples	Sample dispatch, tests and reporting results	Evaluation and report
until August 31 <sup>st</sup>	until September 28 <sup>th</sup>	approx. December 21 <sup>th</sup>

## WKI-QA – Round Robin Test

### Test sample order

#### WKI-QA - Round Robin Test 2012

- Application for participation -

address	
shipping address (if different)	
person in charge	
e-mail address	
phone number	
V.A.T. identification number	

#### Test methods to be performed (for two sample types with different thicknesses)

Test method	Costs [€]*	Select
Density [EN 323]	170,-	
Moisture content [EN 322]		
Internal bond [EN 319]	290,-	
Internal bond, boil test [EN 1087-1]	290,-	
Surface soundness [EN 311]	290,-	
Modulus of elasticity / rupture [EN 310]	290,-	
Thickness swelling [EN 317]	170,-	
Resistance to axial withdrawal of screws [EN 320]	290,-	
Bonding quality (PLY) [EN 314-2]	290,-	

**\*Costs for shipment of samples are not included**