



Density profile analyzer



• PB • OSB • MDF • PLYWOOD



BOARD PROPERTY TESTER AND DENSITY PROFILE ANALYZER

IBX800

TO CARRY OUT LABORATORY TESTS FOR BOARD QUALITY CONTROL

The IBX800 laboratory testing machine has been designed to test the quality and mechanical characteristics of wood-based panels (particleboard, MDF, OSB, plywood) in compliance with today's standards (European, North American, and others upon request) and to then process the results obtained.

The instrument combines the laboratory tests for the mechanical properties with an analysis of the density profile without any contact between measuring instrument and product: the X-ray assembly basically consists of an X-ray generator and a sensor to pick up the rays, between which the sample is placed for the density profile analysis. Additional accessories may be supplied upon customer request.

TESTS PERFORMED IN COMPLIANCE WITH EN EUROPEAN STANDARDS

• Dimensions (EN 325) • Density (EN 323) • Tensile strength (EN319) • Surface soundness (EN311) • Screw holding (EN320) • Bending strength and Modulus of Elasticity (EN310) • X-ray density profile.

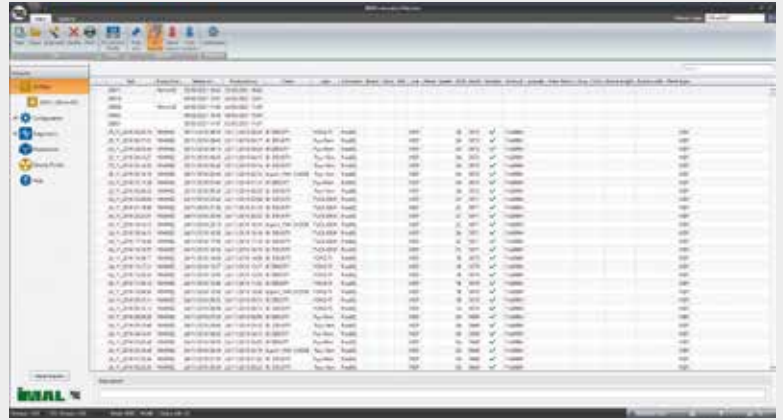
OTHER TESTS FOR WHICH IT IS POSSIBLE TO COLLECT AND STORE DATA IN THE IB800 DATABASE, IN CONJUNCTION WITH OTHER EQUIPMENT

• Swelling and absorption (EN317) • Cyclic test in wet conditions (EN321) • Moisture content (EN322) • Boil test (EN1087-1) • Formaldehyde content (EN ISO 12460-5 / 12460-3) • Surface absorption (EN382) • Dimensional changes according to humidity (EN318) • PB, MDF and OSB moisture values • Particle / fiber screening test • Sand content • Hardness.

SQL SERVER DATABASE

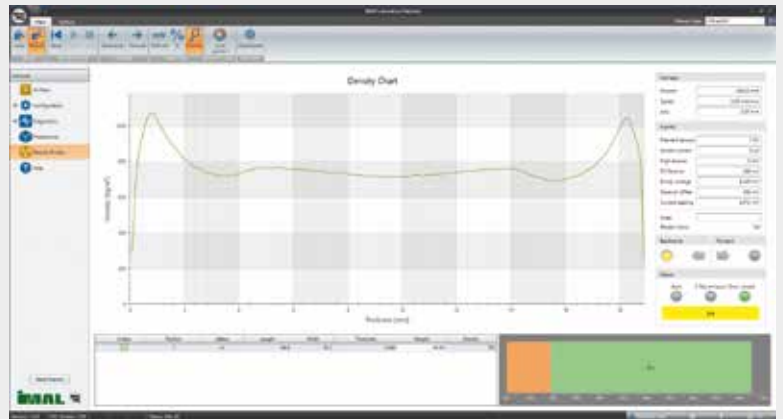
The operator can programme and carry out the tests which need to be conducted to control the quality of the board produced with simple operations. The user interface combines top level graphics with the most modern software technology for filing data and the subsequent data search. All the data are stored in an SQL server database, from where they may be exported to other applications, like Excel for example, and/or printed (in graph form and/or as a numerical report). It is possible to connect the database up to the plant network to share all the test results. The software has features that will help the operator to carry out the tests, such as for example a photograph showing which tools to use for a particular test and a short video tutorial.

A QR code reader may be installed as an optional for the automatic identification of samples prepared by the IMAL SMC200, to save time and avoid human error.

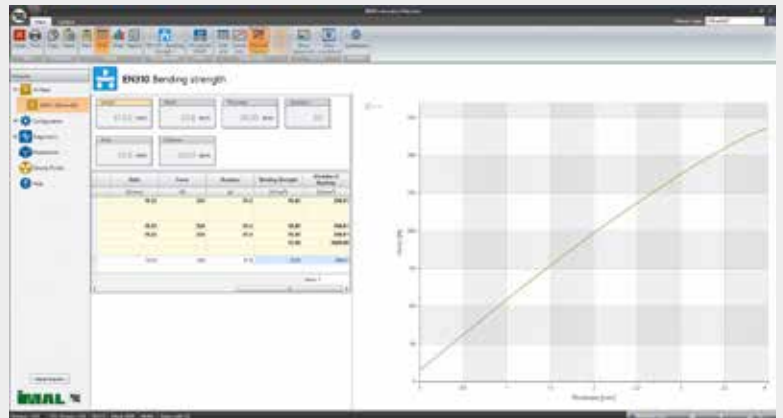


ID	TEST	DATE	TIME	RESULT	STATUS
1	TEST 1	2021-06-01	10:00	100	PASS
2	TEST 2	2021-06-01	10:05	95	FAIL
3	TEST 3	2021-06-01	10:10	100	PASS
4	TEST 4	2021-06-01	10:15	100	PASS
5	TEST 5	2021-06-01	10:20	100	PASS
6	TEST 6	2021-06-01	10:25	100	PASS
7	TEST 7	2021-06-01	10:30	100	PASS
8	TEST 8	2021-06-01	10:35	100	PASS
9	TEST 9	2021-06-01	10:40	100	PASS
10	TEST 10	2021-06-01	10:45	100	PASS

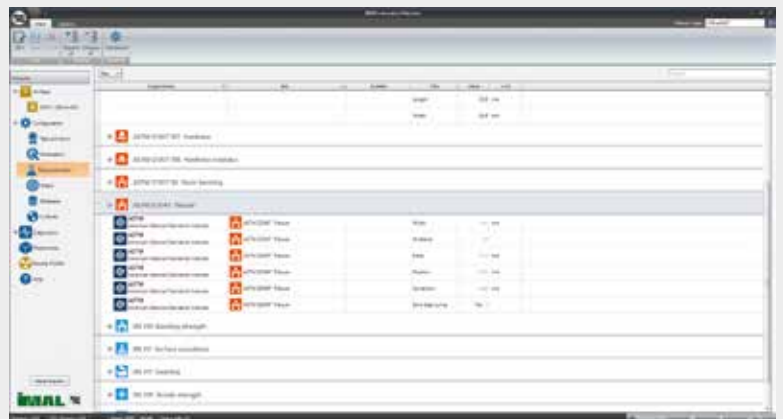
X-RAY DENSITY PROFILE TEST



TEST REPORT



TEST LIST



TEST ID	TEST NAME	DATE	TIME	STATUS
TEST 1	TEST 1	2021-06-01	10:00	PASS
TEST 2	TEST 2	2021-06-01	10:05	FAIL
TEST 3	TEST 3	2021-06-01	10:10	PASS
TEST 4	TEST 4	2021-06-01	10:15	PASS
TEST 5	TEST 5	2021-06-01	10:20	PASS
TEST 6	TEST 6	2021-06-01	10:25	PASS
TEST 7	TEST 7	2021-06-01	10:30	PASS
TEST 8	TEST 8	2021-06-01	10:35	PASS
TEST 9	TEST 9	2021-06-01	10:40	PASS
TEST 10	TEST 10	2021-06-01	10:45	PASS