

Висновки

5 Conclusions

As a result of the research the following can be concluded:

EN 310, EN 789 and calculations made according to ENV 14272

The test results from testing EN 789 and the extrapolation of these test results to untested compositions using ENV 14272 give the results that can be found in the table in paragraph 4.3 for birch throughout and for the combi plywood birch /alder.

Correlation coefficient between test methods

The calculated correlation coefficient between results of test EN 310 and EN 789 for bending strength for both the minor and the major axis is higher than 0.70 (0.78 resp 0.87).

The calculated correlation coefficient between results of test EN 310 and EN 789 for E-modulus for the major axis is higher than 0.70 (0.77).

The calculated correlation coefficient between results of test EN 310 and EN 789 for E-modulus for the minor axis is less than 0.70 (0.53).

Release of formaldehyde

The formaldehyde emission of the tested sample birch plywood was 0.098 mg/(m²h). Hereby, the product is classified formaldehyde class E1 according to EN 13986.

The formaldehyde emission of the tested sample combi plywood (birch /alder) was 0.035 mg/(m²h). Hereby, the product is classified formaldehyde class E1 according to EN 13986.