

**Research Article:**

**CERCETĂRI PRIVIND  
COMPORTAMENTUL TOCURILOR DE UȘI  
DIN MDF LA IMERSIA ÎN APĂ**

**RESEARCH ON THE BEHAVIOUR OF  
MDF DOOR FRAMES AFTER IMMERSION  
IN WATER**

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**BIBLIOGRAFIE / REFERENCES**

- ALMEIDA, G., HERNÁNDEZ, R. (2007). Dimensional change of beech wood resulting from three different re-wetting treatments. In *European Journal of Wood and Wood Products* 65(3): 193-196.
- BUTYLINA, S., MARTIKKA, O., KÄRKI, T. (2011). Properties of wood fibre-polypropylene composites: Effect of wood fibre source. In *Applied Composite Materials* 28(2): 101-111.
- SAOTOME, H., OHMI, M., TOMINAGA, H., FUKUDA, K., KATAOKA, Y. (2009). Improvement of dimensional stability and weatherability of composite board made from water-vapor-exploded wood elements by liquefied wood resin impregnation. In *Journal of Wood Science* 55(3):190-196.
- TOMAK, E.D., VIITANEN, H., YILDIZ, U.C., HUGHES, M. (2011). The combined effects of boron and oil treatment on the properties of beech and Scots pinewood. Part 2: Water absorption, compression strength, color change, and decay resistance. In *Journal of Materials Science* 46(2):608-615.
- \*\*\* SR EN 317/1996. Plăci de aşchii și plăci de fibre – Determinarea umflării în grosime după imersia în apă (Particleboards and fibreboards – Determination of swelling in thickness after immersion in water).
- \*\*\* STAS 7837/1989. Mobilier și alte produse finite de lemn. Abateri limită și ajustaje (Furniture and other wooden finished products. Limit deviation and fits).
- \*\*\* <http://www.spanogroup.be/upload/docs/MDF-manual%20ENG%20LOW%20RES.pdf>