

## WOOD DRYING QUALITY OF BEECH WOOD 25,0 MM IN THICKNESS

Goran Zlateski, Goran Jovanović, Branko Rabadziski

### ABSTRACT

*Defining the final moisture content distribution across thickness of the beech boards during convective kiln drying has been studied. Boards from beech, 25,0 mm thick, 250 -300 mm wide and 1,80 long have been used as testing materials. The boards have been kiln dried from initial moisture content of 39,23 % to final moisture content of 9,13% for 15 days. In a drying schedule there are four stages: heating, active drying, equalizing and conditioning. The moisture content difference i.e. moisture content gradient between core and surface of the boards is 1,52 %.*

*It was found that by influence of schedule on moisture content distribution, it was possible for beech boards to achieve the ,”Q “ drying quality according to the European Drying Group.*

### REFERENCES

- Allegretti O. (2000) Essiccazione e stagionatura del legno, Dendronatura, Semestrare dell'Associazione Forestale del Trentino, Anno 20, Numero 1, Trento.
- Assessment of drying quality of timber in collaboration with European drying group, (1994).
- Buchmuller K., Mayrhofer A. (1992) Temperature measurement in drying wood, 3 th International IUFRO Wood Drying Conference, Vienna.
- Keey R. (1998) Understanding kiln – seasoning for the benefit of industry, Conterbury.
- Rasmussen E. (1961), Dry Kiln – Operator’s manuel, Madison.
- Simpson W. (1987), Vacuum drying northern red oak, Forest Products, Vol. 37, No.1, Madison.
- Welling J. (2000), Industrial needs and scientific expectations, COST action E -15, Advances in drying of wood, Sopron.
- Zlateski G. (2004), Study of the regime and quality for contact vacuum drying of saw mill sortiments, Doctoral thesis, Skopje.