



Aalto University  
School of Chemical  
Technology

# MOISTURE BUFFERING PROPERTIES OF VARIOUS HARDWOOD SPECIES

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# Concept

**Moisture buffering studies have mainly focused on softwood species, especially on spruce and pine.**

**Designers and architects have a growing interest towards the use of wood in interiors.**

**Hardwood species are commonly used in interiors.**

**Initial screening:**

**Untreated tangential and radial surfaces**

**Ash, birch, black alder, elm, maple and oak**

# Outcome

**Black alder, elm and maple buffered more than ash, birch and oak.**

**Black alder and elm showed a difference between radial and tangential surfaces.**

**Densities were (too) uniform in this study → more variation within a species and between the species in the following study.**