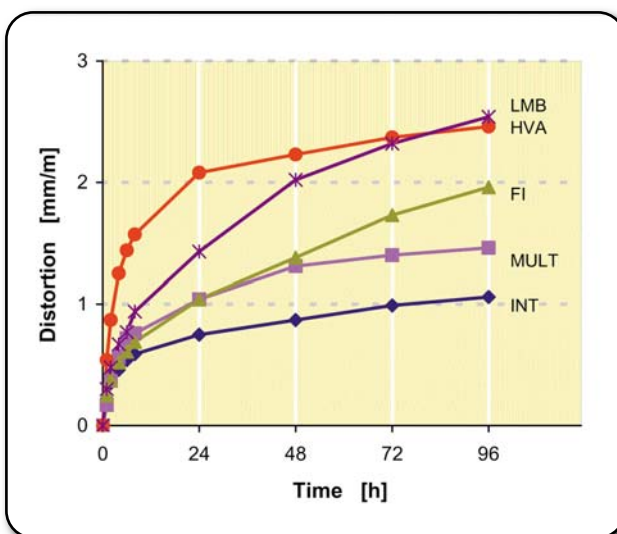
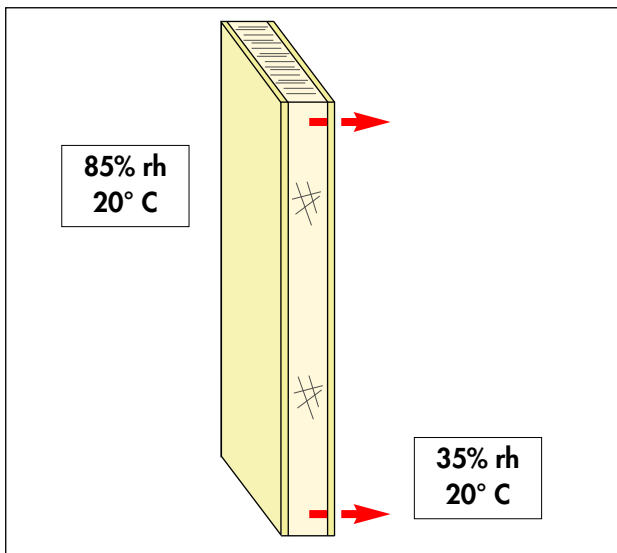


Material Variations

The following materials have been tested :

- Spruce
- Limba
- Multiplex
- LSL Timberstrand
- SAUERLAND stile & rail material HVA



Climate test

Specimen

4 stiles at a time - not glued to each other - were skinned with 3 mm HDF and fixed in the test opening by a flexible putty.

Test

The samples were exposed to a differential climate of 35% rh and 65% rh at 20°C.

The grade of distortion after 96 h and the expected subsequent distortion are especially important.

Result

Limba

- total highest distortion
- after 96 h high subsequent distortion

SAUERLAND HVA

- beginning high distortion
- after 24 h low subsequent distortion
- after 96 h distortion almost completed

Spruce

- beginning low distortion
- until 96 h high, almost constant distortion
- high subsequent distortion
- expected total distortion > HVA

Multiplex

- beginning high distortion
- after 96 h distortion almost completed

Timberstrand LSL

- total lowest total distortion
- after 96 h low subsequent distortion