

# FORMATION OF SADDLE-SHAPED COMPOSITE SHEETS

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Curvature changes of sheet-type composites unsymmetric about midplane are prognosticated depending on the moisture content and temperature of layers using an unbalanced multilayered composite deformation model [1, 2]. The curvatures of saddle-shaped surfaces of wood-based composites were calculated considering the physical and mechanical as well as deformative properties, geometrical dimensions, orientation and distribution of layers [3, 4]. Reliability of the calculation results was experimentally tested by determining the curvatures of four-layered glued birch plywood composites with unbalanced structure. It was found that the calculation model assumed allows one to determine the curvatures of saddle-shape sheets made of a wood-based composites with a 98% reliability.

## References

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