PREFACE

This master thesis started out as a job assignment in Kohila Vmeer OÜ. We had been experiencing some troubles with the veneer dryer. The moisture content statistics of dry veneers was good but the veneers themselves were extremely wavy and brittle. The two things did not add up. It became apparent that the good statistics had been achieved by constantly misting the veneers in the second zone of the dryer. The waviness and brittleness of the veneers at the same time indicated possible over drying.

Optimizing the drying process parameters and changing dryer settings led to the development of essentially reversed dryer set-up logic that became the foundation of this master thesis. The birch veneers used in this master thesis were manufactured and processed at Kohila Vmeer OÜ as well as most of the subsequent testing took place there. Veneers were tested, glued and pressed into plywood in Tallinn University of Technology Laboratory of Wood Technology.

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Veneer drying, surface inactivation, surface wettability, master thesis