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ABSTRACT BOOK

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KARADENIZ TECHNICAL UNIVERSITY
FACULTY OF FORESTRY & FACULTY OF ARCHITECTURE
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ABSTRACT BOOK



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DETERMINATION OF THE AGING TEST TYPES THAT CAN BE APPLIED TO WOOD AND WOODEN COMPOSITES USED IN YACHT/ BOAT AND FURNITURE

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In this study, it is aimed to determine the appropriate aging test techniques that can be applied to wood and wood composites that constitute furniture and other building elements used in marine vehicles such as yachts and boats. Salt water, ultraviolet rays, wind, torrential rains, sun effect, temperature difference, evaporation should be taken into consideration in the selection of surface protector treatment for wooden materials in yachts and boats used in sea and open weather conditions. Because the protection measures for other factors such as inclination, direction, height from the ground, direct contact with water in the marine conditions of the wood and composite material can be very different from those used in the residential environment. Different levels of aging (deformation) may occur against the severity and impact of the wood and composite material deformation source. Determination of the performance of the protective layers applied on wood material can be determined by natural aging in marine conditions and artificial aging test devices in laboratories. In the study, aging test methods suitable for wood and wood composites used in marine conditions and issues that are important for application will be included. As a result, scientific test methods to be used in the yacht and boat industry and reliable predictions will contribute to the use of correct materials and protection methods.

Keywords: Wood, marine, yacht/boat, aging, furniture