



Test Results | THERMORY® White Ash Strength

Strength

TESTED

▶ Moisture content and, weight and density were calculated and then the strength was evaluated on a bending device to determine the strength of each THERMORY® White Ash sample.

RESULTS

▶ The impact resistance was calculated to have no significant change in surface hardness or strength in comparison to standard kiln-dried Ash and for THERMORY® White Ash to be extremely suitable for a decking surface.



▶ DECKING ▶ CLADDING ▶ PORCH FLOORING

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TEST REPORT

Tallinn

2013-10-22

Tested timber: European and American ash thermowood (215 °C) sawn timber samples 20x150x500 mm.
Committer: Brenstol OÜ.
Ground for testing: Order for testing 2013-10-07.
Testing objective: Determination of physical and mechanical properties.

Test method.

For determination of density were used 20 x 20 x 150 mm test pieces from cross section. Moisture content was determined by the oven dry method using the same test pieces. Bending strength and modulus of elasticity were determined according to the standard EN 408 using 2 test pieces with cross section 20x70 mm cut from each sample.

Test results.

Wood species	Sample	Moisture, %	Density, kg/m ³	Bending strength, N/mm ²	Modulus of elasticity, N/mm ²
European ash	1	3.9	736	86,9	18335
	2	3.6	701	78,4	18947
	3	3.9	686	76,6	17633
	4	3.4	610	69,9	14716
	5	3.3	595	77,6	15256
	6	3.4	618	66,2	14423
Average		3.6	658	75,9	16552
American ash	1	3.3	602	74,1	13383
	2	3.3	636	86,2	16216
	3	3.4	640	93,7	15677
	4	3.5	692	80,7	17213
	5	3.7	680	86,8	16881
	6	3.6	693	70,6	18528
Average		3.5	657	82,0	16316

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