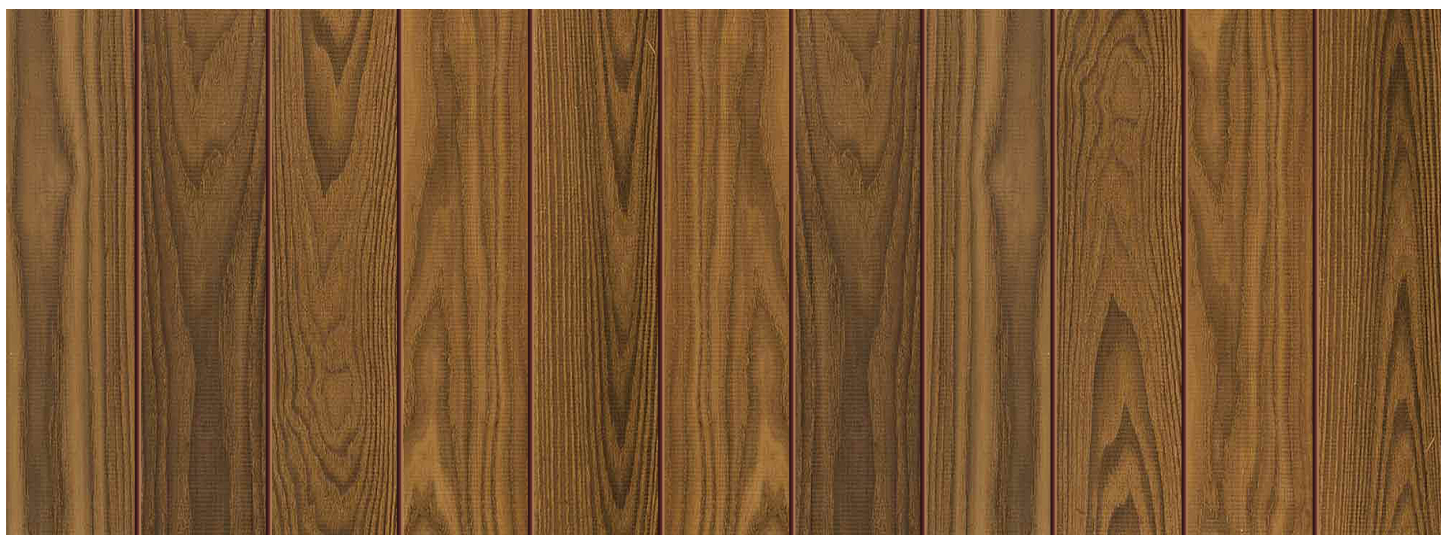


Black Label™

Thermo Ash Data Sheet



BLACK LABEL
THE WORLD'S BEST WOOD



Mechanical Properties, Strength values	Kiln Dried Ash	Black Label™ Thermo Ash
Modules of elasticity (MOE), flatwise (MPa-N/mm) DIN EN 408, TS 2478	19.226	12.480 - 14.000
Modules of rupture (MOR), flatwise (MPa) DIN EN 408, TS 2474	131,8	56.6 - 85.7
Impact bending strength (IBS), flatwise (MPa) TS 2477	-	-
Compressive strength (CS), (MPa) TS 2595	-	-

Dimensional Stability 65%Rh 20° C	Kiln Dried Ash	Black Label™ Thermo Ash
Maximum swelling ratio, tangential (SW-T) (%) DIN 52184 , TS 4083, 4084	10,3	5,3
Maximum swelling ratio, radial (SW-R) (%) TS 4083, 4084	5,8	2,9
Maximum swelling ratio, longitudinal (SW-L) (%) TS 4083, 4084	-	-
Maximum shrinkage ratio, tangential (Sh-T) (%) TS 4083, 4084	7,1	4,6
Maximum shrinkage ratio, radial (Sh-R) (%) TS 4083, 4084	3,9	2,03
Maximum shrinkage ratio, longitudinal (Sh-L) (%) TS 4083, 4084	-	-

Black Label™ Thermo Ash has enhanced dimensional stability: Increased Stability | Minimized deformations | Minimized Expansion and Shrinkage

Physical Properties, Moisture content	Kiln Dried Ash	Black Label™ Thermo Ash
Equilibrium moisture content at 20/65 (%) EN 13183-1	10.1 (9-11)	4.2 (4-6)
Raw density at 20/65 (kg/m³) DIN 52182	677-738	595-629

Biological durability against wood-decaying basidiomycetes	Kiln Dried Ash	Black Label™ Thermo Ash
Increased durability to decay	No	Yes
Resins and sugars removed	No	Yes
Median mass loss with Coniophora puteana DSM 3085 (n = 30) (%) CEN/TS 15083-1	-	0,1
Median mass loss with Coriolus versicolor CTB 863A (n = 30) CEN/TS 15083-1	-	0,1
Preliminary durability Classification Median mass loss (< 5 %)	-	1 "very durable"
Black Label™ Thermo Ash has low moisture content that prevents decay and fungi growth.		

Surface burning characteristics of buildings material- Fire resistance	Kiln Dried Ash	Black Label™ Thermo Ash
a. Flame Spread Index (FSI) ASTM E84-16	-	a. 40 Class B or II
b. For British fire resistance EN 13501	-	b. Class D
Smoke developed Index (SDI) ASTM E84-16	-	200 Class B or II
By using fire retardancy liquids	-	OK
Black Label™ Thermo Ash has improved fire-resistance.		

Nail and screw holding strength	Kiln Dried Ash	Black Label™ Thermo Ash
a. Stainless steel or galvanised screws and plastic clips are recommended. Hidden and face fixing systems EN 1383, NEN 6562 b. Steel material standard 10088-3	-	Class A2
Surface contaminations from fixation elements	-	Not delicate
Black Label™ Thermo Ash has screw withdrawal strength.		

Glueing	Kiln Dried Ash	Black Label™ Thermo Ash
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Fingerjoints
Laminations
Panel production

-

MUF, Polyurethane

Brinell Hardness	Kiln Dried Ash	Black Label™ Thermo Ash
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-

30.5 N/mm²

Thermal conductivity, Insulation	Kiln Dried Ash	Black Label™ Thermo Ash
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Heat conductivity W/mK
TS EN 12667

1,2

0,099

Emissions

- The emissions are not harmful in fresh air.
- The smell of thermowood products may disappear within a few days but with the surface treatment or rain it may raise up again.

Colour

- Colour of the wood changes (Ash colour is dark brown).
- Oil and water based coatings.

Environment

- FSC certified.
- 100 % naturel.
- 100 % recyclable and biodegradable.
- Low processing energy demand.
- Sustainable development and a low carbon future.
- From renewable forests.



CONTACT US NOW:

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BlackLabelWood.com



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