

BROLIS TIMBER THERMALLY MODIFIED TIMBER

DESCRIPTION OF PRODUCT

Thermally modified solid timber boards from Scots Pine (*Pinus Sylvestris*). Processed with heat (212–215°C), steam and water according to the thermo timber process, treatment class Thermo-D. Thermal modification significantly improves its durability, dimensional stability, thermal insulation and other qualities.

APPLICATION

For exterior and interior end-use.
Exterior use class 3 – Outdoors, above ground and exposed to the weather.

TECHNICAL SPECIFICATIONS

Durability

Class 2 – Durable.
Average life expectancy outdoors, above-ground of 15 to 40 years.

Density

420 kg/m³

Equilibrium moisture content

6 ± 2% at relative humidity of 65%, temperature of +20°C.
Always below 16% at relative humidity of 98%, temperature of +20°C.

Dimensional stability

The radial and tangential swelling due to moisture absorption is at least 50% less compared to untreated Scots Pine.

Reaction to fire class

D-s1, d0

Thermal Conductivity

0,115 W/(m K)

Brinell hardness

1,4 N/mm²

Screw holding strength

19,45 ± 1,5 N/mm²

Total volatile organic compounds

235 µg/m h
VOC emitted by thermally modified pine is only a fraction (≤16%) of those from standard pine. No formaldehydes emitted.

Bending strength

Thermo pine products are not available as strength-graded timber and it must not be used for load-bearing structures.
Bending strength of thermally modified timber is less, compared to that of standard timber.