



THERMO TREATED SPRUCE / THERMO TREATED PINE – Technical Datasheet

(based on information we received from our suppliers)

- **Treatment Class : THERMO D**

D stands for durability; the wood has a darker brow tone. Its durability and stability are improved significantly. The wood is thermally modified at 212°C and is suitable for internal and external applications without the need for chemical preservative treatment. The Thermo treated wood is also suitable for humid spaces like spa and sauna.

- **Dimensional stability**

Lowered equilibrium moisture content of the Thermo treated wood makes it dimensionally stable and the material retains its shape far better than untreated wood. The outstanding dimensional stability allows the Thermo treated wood to be successfully used in all climates and even in hot and humid weather conditions indoors and outdoors.

- **Use Class**

Thermo treated Spruce and Pine is suitable for use class 3 (BS EN 335)

The wood is above ground and exposed to the weather (suitable for cladding, rainscreen, decking,...).

Not recommended for use in direct contact with the ground.

- **Durability**

Thermo treated Spruce and Pine is classified as durability class 2 (BS EN 350)

- **Termite resistant**

Thermo treated Spruce and Pine is not termite resistant. It can be treated with specialist termite chemical treatments.

- **Fire Rating**

Thermo treated Spruce and Pine has D4 rating which means same as any natural timber.

- **Wearing over time**

Like all timber products, Thermo treated Spruce and Pine will go grey upon exposure to UV, and in time may show some fine cracks or splits on the surface. The graying effect will be visible in a relatively short period of time, 3 to 6 months after installation. It is recommended to apply an oil or wood coating to help preserve and maintain the original appearance.

Implemented tests and summarized results for Thermo treated Spruce and Pine :

Essential Characteristics	Pine (pinus sylvestris)	Spruce (Picea abies)	European Standard
Density	420 kg/m ³	420 kg/m ³	SFS-EN 317
Reaction to fire class	D – s2, d0	D – s2, d0	SFS-EN 13502-1 + A1
Durability class	Class 2 Thermo-D	Class 2 Thermo-D	EN 350-1
Use class	Class 3 Thermo-D	Class 3 Thermo-D	EN 335
Stability, shrinking and swelling	Tangential fibre direction 4% Radial fibre direction 2%	Tangential fibre direction 4% Radial fibre direction 2%	SFS-EN 317
Equilibrium Moisture Content	6,4 %	7,3 %	EN 13183-1
Brinell Hardness	1,4 N/mm ²	1,52 N/mm ²	SFS-EN 1534
Janka	1700N	1700N	ASTM D143-94
TVOC	Thermo-D : 0,045 mg/m ² h	Thermo-D : 0,071 mg/m ² h	KET 3300495