

Thermowood D Pine [®]



Scandinavian redwood *Pinus sylvestris*.

1. General Information

- **Distribution**

Widely distributed in Europe It is found in the north-west of Norway in a northerly direction, spreading east through northern Europe.

- **Environmental**

Not listed in CITES. Believed to be available from well-managed sources. Check certification status with suppliers.

- **The Timber**

The quality of the timber is affected by the conditions of growth, climate, soil, elevation, etc, more than most timbers because of its wide and varying distribution, and these factors affect the texture, density, size and number of knots

- **The Tree**

The tree is generally 30m high with a diameter of about 1m but larger trees may be found on favourable sites.

- **Wood type**

Modified softwood

2 Timber Properties

- **Chemical properties**

Fine dust may be an irritant

- **Coating**

A wide range of coatings can be applied, subject to appropriate profile design, sound preparation and application of the coating in accordance with manufacturer's instructions. Due to its stability will offer good service, however it best suited to translucent coatings. Must be stored and protected correctly on site. Requires 'special' base stain when used with Omnia 'clear'.

- **Colour**

The heat treatment process produces a timber with a rich warm brown and fairly consistent colour, which is found, throughout the material.

- **Density**

Thermowood density is 350 - 480kg/m³ when its moisture content is 6% (typical for RH = 65% , t = 20°C conditions).

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- **Durability**

The improved durability of Thermowood makes it an excellent material to use in the production of timber Cladding and rainscreens. The heat treatment process enables the use of Scandinavian Redwood in areas requiring a service life of upto 30 years without the need for a chemical preservative.

- **Fixings**

Stainless Steel fixings are recommended and Marine grade may be required in close proximity of the sea. Round head ring annular nails are preferred or suitable screws. Please ensure fixing and fixing system is appropriate to species.

- **Fire Retardant**

This species can be treated for Internal and External (leach resistant) use. Can achieve both Euro Class 'B' & 'C' classifications, by a pressure-impregnation process. This can lead to an increase in brittleness and issues such as end split and distortion, which can increase wastage. This means that an increase in actual length of pieces ordered and/or overall volume may be appropriate.

The pressure impregnation process can lead to increased brittleness and issues such as end split face checks and dimensional distortion. These are characteristics of the treatment process, will potentially increase site wastage and means that an increase in actual length of pieces ordered and/or overall volume may appropriate.

- **Lengths**

Can be supplied 3.6m to 5.4m in 300mm increments but most available lengths are between 3.6m to 4.5m. Shorter lengths available subject to volume and timescale. Please check with supplier for current availability.

- **Movement**

Small

- **Price**

Low

- **Sawn Sections**

(Machined profiles will be thinner/narrower)

25 x 75 / 100 / 125 / 150

32 x 125 / 150

38 x 150

50 x 50 / 75 / 100 / 125 / 150 / 200

- **Texture**

Fine

- **Treatability**

Extremely difficult

- **Uses**

Joinery, Cladding (exterior & interior), Decking, Louvres / Brise soleil

- **Working qualities**

Good. Easy to work with and finishes excellently.

Specialised glues are required for gluing and laminating this material, please contact

3. Site Expectations – Natural Characteristics

All timber materials **MUST** be stored in accordance with good site practice, please refer to our [Storing of Timber document](#).

Thermowood – Due to the heat process, this timber becomes more brittle. This means that the timber may have some end split, face checks (especially down pith), and some cracked/broken knots. These are characteristics of the material and are not manufacturing defects.

