HEAT-TREATED PLANED BOARDS

# Thermo Sosna 42×140 decking board, NATUR class

Wood species: Thermo Pin.

THERMALLY MODIFIED PINE | BOIS | EXTÉRIEUR | NATUREL




## IDENTIFICATION

| | |
|---|---|
| Dartank reference | **D7P03** |
| Dartank EAN | **3701839312346** |
| Material | **Thermally modified pine** |
| Thickness | **42 mm** |
| Sales unit | **Square metre (m²)** |

OVERVIEW

## Overview

Scandinavian Scots pine thermally modified with heat, steam and water, without chemicals. The wood gains stability, durability and insulating power, suiting cladding, decking, soffits, fences, saunas and interior finishing.

## KEY BENEFITS

### 01
**Stability**

50% better dimensional stability; about half the shrinkage and swelling.

### 02
**Durability**

Very durable against fungi and insects (durability class 2).

### 03
**Chemical-free**

Treated with heat, steam and water, without additives or acids.

### 04
**Healthy indoor air**

VOCs cut to 16% of unmodified wood, formaldehyde-free.

### 05
**No resin bleed**

Heat treatment stops resin bleed and reduces cracking.

### 06
**Insulating**

Thermal conductivity of 0.115 W/(m·K), ideal for saunas.

## PRODUCT CHARACTERISTICS

| | |
|---|---|
| Material | **Bois** |
| Wood species | **Thermo Pin** |
| Width | **140 mm** |
| Profile | **S4S** |
| Class | **Naturel** |
| Application | **Extérieur** |
| Length | **sur demande** |
| Protection | **Thermo-drewno** |

## THE MATERIAL

### Thermally modified pine

Thermally modified Scandinavian Scots pine.

| | |
|---|---|
| Species | **Scots pine (Pinus sylvestris)** |
| Origin | **Scandinavia** |
| Density | **380–420 kg/m³** |
| Colour | **Light brown to brown** |
| Moisture content on delivery | **6 % ±2** |
| Dimensional tolerance | **12 %** |
| Appearance grades | **AB / Natur** |

## PERFORMANCE AND TEST RESULTS

| Property | Standard | Result |
|---|---|---|
| Reaction to fire | EN 13501-1 | **D-s2,d0** |
| Brinell hardness | | **1.4 N/mm²** |
| Screw withdrawal resistance | | **19.45 N/mm² ±1,5** |
| Thermal conductivity | | **0.115 W/(m·K)** |
| Heat-treatment temperature | | **180–215 °C** |

| Property | Standard | Result |
|---|---|---|
| Dimensional stability | | **+50% versus unmodified wood; about half the shrinkage and swelling** |
| Natural durability (class) | EN 350 | **2** |
| Resistance to fungi | | **Very durable** |
| Resistance to insects | | **Very durable** |
| Use class | EN 335 | **3** |
| Thermal treatment class | | **Thermo-D** |
| Total VOC emissions (TVOC) | | **235 µg/(m²·h)** |
| Formaldehyde | | **No formaldehyde emission** |
| Chemical additives | | **None — heat, steam and water only** |

## INSTALLATION

### Installation

1. **Substructure** Install above ground with sufficient ventilation (use class 3).
2. **Gap between boards** Leave about 4–7 mm between boards (more for the most reactive species).
3. **End gap** Allow about 2–3 mm between board ends.
4. **Screwing** Screws twice as long as the board is thick, driven at 90°, head flush (neither proud nor sunk).
5. **Pre-drilling** Always pre-drill, even with self-drilling decking screws.
6. **Machining** Sawing, nailing and finishing: very good; slow drying with a risk of checking.
7. **Pre-installation check** Starting installation means accepting the product's condition: report any defect before cutting, drilling or treating.
8. **Workmanship** Installation should be carried out by a professional in line with good building practice.

### Storage

- **Stacking** Stack boards flat, strapped and/or evenly weighted, allowing air to circulate.
- **Shelter** Store in a dry place protected from water and UV.
- **Stacking** Unsecured storage risks cupping and twisting.
- **Coated boards** Protect painted or stained faces (e.g. with foam film).

## MAINTENANCE

### Maintenance

| | |
|---|---|
| Weathering | **Outdoors, the wood weathers to a silvery patina without losing its technical properties.** |
| Renovation | **To keep the original colour, regularly apply an exterior wood maintenance oil.** |
| Renovation | **Renovation frequency depends strongly on exposure.** |

## QUANTITIES

### COVERAGE PER M² — 8% cutting waste

| AREA | BILLED |
|---|---|
| 5 m² | 5.4 m² |
| 10 m² | 10.8 m² |
| 20 m² | 21.6 m² |
| 50 m² | 54 m² |

## WARNINGS

- **Structural use** Thermally modified wood becomes more brittle: not recommended for load-bearing structures unless reinforced.
- **Natural material** Thermal modification does not prevent surface algae or mould stains (visual effect only, durability unaffected).
- **Natural material** 100% natural, hygroscopic wood: it swells in wet weather and shrinks in hot weather. Grain and colour vary from board to board.
- **Natural material** Outdoors, weathering, deformation, cracking and dimensional change are natural for wood and are not grounds for a claim.

Non-contractual document. Values are given for guidance; official documents are available on request.