

What is Torrefied Wood?

Torrefaction is a 100% natural prolonged heat treatment process that leaves wood amazingly stable and durable.

Torrefaction is not a new process. The Vikings were already using it to enhance the resistance and durability of wood back at the turn of the 8th century. Scandinavian countries have been improving this age-old procedure since the 1930s. Here's how it works:

1. Preheating and drying

First, the wood is gradually heated to approximately 130°C for about 20 hours. This process equalizes the material and lowers the moisture level to almost 0%.

2. Intensive heat treatment

The wood is then heated to about 200°C to thermally modify its molecular structure. This procedure has three effects:

- It gives a **rich natural amber colour to the wood**.
- The wood is much less subject to fluctuations in moisture levels, giving it **unmatched stability and durability**.
- The wood has much greater **resistance to decay and insects**.

3. Cooling and conditioning

The temperature is then gradually lowered. During this phase, the controlled addition of water vapor brings the moisture level of the wood back to 4% to 7%. This restores natural flexibility, making it easier to work with.

How does torrefaction affect the molecular structure of wood?

