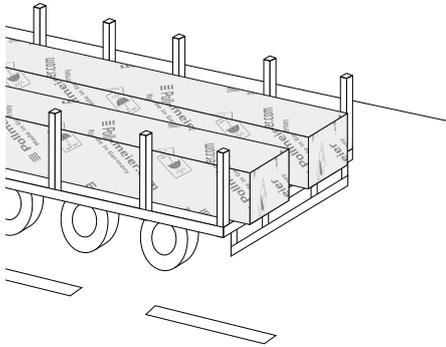


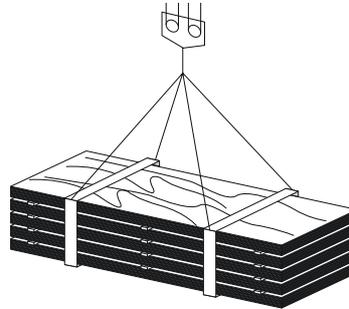
Important information for the storage and processing of Spruce LVL

Like all wood products, Pollmeier Spruce LVL must be **stored and processed properly**. Improper handling can lead to irreversible damage to the material, and its structural properties might be altered. **During transportation and storage, the spruce LVL should remain covered.** Following descriptions explain additional items to protect the wood from damage



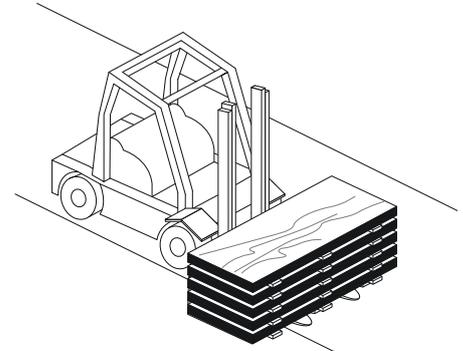
Storage and transportation

When leaving the mill, Pollmeier Spruce LVL has a wood moisture content of $6\% \pm 2\%$, relative to dry wood weight. The spruce laminated veneer lumber is loaded for transport under dry conditions. During transport and storage, it must be protected against moisture ingress from rain, spray water etc.



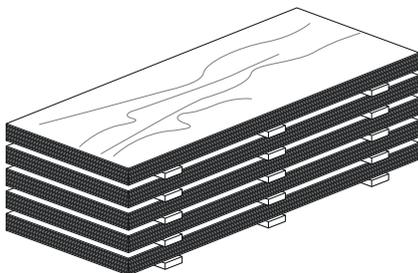
Lifting

Lifting by crane and other means must be performed by suitably trained personnel and with the necessary safety precautions. Lift the timber with load slings. Chains or steel cables must not be in direct contact with the timber. Do not use ropes or textile hoisting slings with a round cross-section.



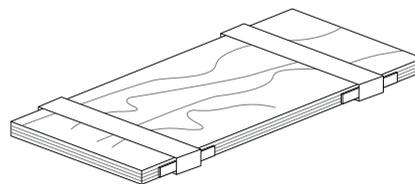
Stacking

To prevent damage during transport by forklift truck, ensure that the width of the fork arms is suitable for the length of the spruce LVL packs. When lifting more than one pack at the time, the fork arms must be suitably spaced for safe lifting.



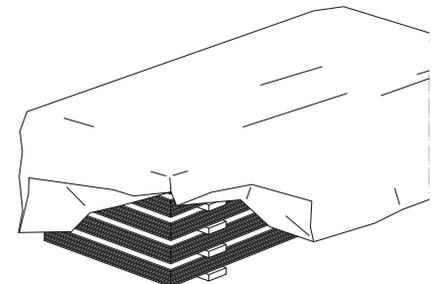
Storage

Pollmeier Spruce LVL must be stored on flat and dry supports and in an enclosed room. If no such room is available, store the spruce under a roof. Store the timber in stacks that are at least 1-2 metres apart. Use battens and stacking laths. Secure the stacks against toppling over. Align the stacking laths between the packs to the battens. Distance from ground: minimum 10 cm (we recommend 30 cm to reduce the risk of moisture exposure).



Damage

Use wide straps and all-side edge protection. Protect the timber against impact.



Protection against excess moisture

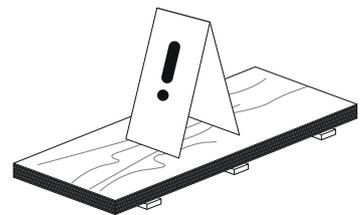
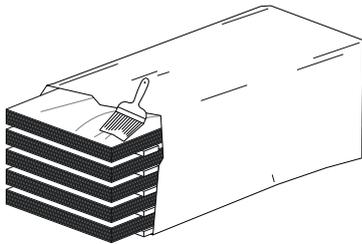
Store Pollmeier Spruce LVL under a cover in order to protect it against the weather elements. Cut open the packaging at the bottom to allow for adequate air circulation to prevent condensation. If you need to store Pollmeier Spruce LVL for a prolonged period of time, ensure that there is adequate space for air circulation between the cover foil and the laminated veneer lumber in order to prevent mould and water staining.

As a rule, store spruce LVL under the climate conditions of the space in which it will eventually be installed. If Spruce LVL gets wet it can change the dimensions of the product (due to swelling and subsequent shrinkage).

Important information for the storage and processing of Spruce LVL

Read the instructions carefully.

If you have any questions, contact your supervisor.



Weather protection

Observe structural wood preservation!

Additional: Moisture protection coating for short-term weathering as temporary protection during the transportation, storage and processing period. We recommend LignoPro 103 Coating, Koch und Schulte GmbH & Co.KG, 57645 Nister, www.kochundschulte.de.

As long as the storage area is dry, there is no expiry date for the Spruce LVL. In covered areas, it depends on the surrounding humidity. e.g. Fog makes the wood suffer more than dry areas.

Information about LignoPro Coating

LignoPro 103 is a coating to protect Spruce LVL from certain moisture exposure (it is not waterproof).

- The coating is not a permanent protection.
- Edges are always coated. If material is cut, the protection at the new edges does not exist anymore. We recommend using LignoPro 103 to cover edges manually (Koch und Schulte GmbH & Co.KG).

How to handle wet areas?

Humidity should be avoided at all costs. If the Spruce LVL increases in moisture content, consider the following:

- Move it indoors and stack it for drying. Dimensions may not return to original dimensions after drying
- A product can be shortened in length, to get rid of moisture content which has reached into the end of the product. How much will depend on different circumstances.
- A time frame for how long it would take for a product to dry cannot be given as various factors need to be considered.