



mÜNCHINGER
duoline

**The price-conscious
alternative for win-
dow manufacture**

**Combining
durability and
serviceability**



In most cases, the simple solutions are the best.

The critical zones of a timber window are the breast joints in the lower window section, see III. 1. Depending on the hazard class of the window and the strength class of the timber, problems might occur, see DIN 68800 or Code of Practice H0.06 - 1 by the German Window + Facade Association VFF.

We use pine or spruce for the middle ply/inner side of the Münchinger duoline scantling because these timber species offer good processing properties and a favourable price/performance ratio in addition to an excellent Lambda value.

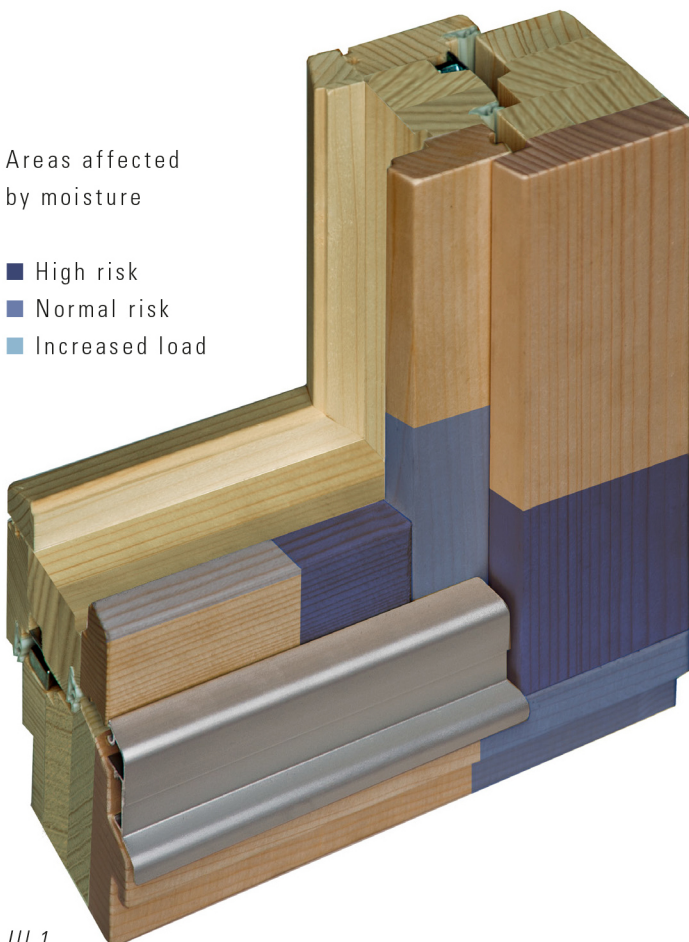
For the ply exposed to weathering, we use a proven and tested, durable timber of the Douglas Fir.

Oregon Pine offers the following properties:

- Bulk density: approx. 510 - 580 kg/m³
- Modulus of elasticity: . . . approx. 11.000 - 13.200 N/mm²
- Compressive resistance: approx. 42 - 68 N/mm²
- Bending strength: approx. 70 - 100 N/mm²
- Strength class: 3
- Thermal conductivity: 0.109 W/mK

This combination ensures the durability and low-cost functionality of the Münchinger duoline scantlings.

Of course, other timber species are available on request!



III.1



Combination of Douglas Fir and spruce



Combination of Douglas Fir and Redwood

Let the quality of our timber products convince you. We would be pleased to give you any advice you may need.

Competent. Personal. Sustainable.

With customized products.
Your point of contact:



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