



Derlage Junior Hout V.O.F.
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ND/MD

Mijdrecht, December 2009.

Larix

Bot. Names : Larix Sibirica, Ledeb. (Larix Rossica)

Family : Pinaceae, Lindt

***Attention:** The hereunder mentioned characteristics are for Larix Sibirica and not for other Larix species.

Areas : From Nord east Europe – Siberia up to Mongolia.

Trees : In general trees are 30-40m. high with max. diameter of 120cm. Veneer logs and high grade sawn logs are 30cm upto 45cm top diameter and about 6 meters long.

Density : Green 1.050-1.150kgs/m3, but KD 12% 650-700kgs/m3.

Description : Heartwood yellow upto yellow brown or red. Sapwood is small (max. 2cm) and white .
: The annual growth rings are distinct and in this specie rather narrow, but always with
: alternate lighter coloured and darker coloured zones.

Texture : Medium luster or almost absent, rather rough aspect.

Grain : In general straight grained and fine.

Odor / Taste : A nice resin odor when green. KD no odor nor taste.

Workability : Easy to saw, plane (preferably with Tungsten), glue, need some force to nail.
: In green condition You have to clean the tools regularly, because of the resin. Preferably use a
: special existing liquid to clean the tools.

Drying : Medium quick with small risk of deformation, but with big risk for small surface cracks.
: It's advisable to start with a high humidity in the kiln. This will avoid cracks and deformation.
: 25mm lumber is from green to 12% mc, dry in 14 days.
: 75mm lumber is from green to 12% mc, dry in 40 days.

Shrinkage : Radial 2,3-3% from Green to 12% MC.
: Tang. 4,5-6% from Green to 12% MC.
: Coeff. 20-6% Rad. 0,19% e Tang. 0,44%.

Durability : Heartwood II, sapwood III

Availability : Russia has the biggest forestry reserves of the world. In Siberia every 4th tree is a larix tree.



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Technical properties of Larix.

	Larix	Red Lauan
Durability	Classe II-III	Classe III
Green weight	1050-1150 kg/m ³	800-1000kgs/m ³
KD 12% MC	650-700 kg/m ³	608kgs/m ³
Radial (R%)	2.3 - 3% when 12% MC	2.8% when 12% MC
Tangential (T%)	4,5 - 6% when 12% MC	6.9% when 12% MC

Mechanical Properties at 12% MC.

	Larico	Red Lauan
Bending Strength	100-107 N/mm ²	79 N/mm ²
Elasticitymodule	13000-15000 N/mm ²	1110 N/mm ²
Compression	40-43 N/mm ²	41 N/mm ²
Shearstrength Radial	8.5 N/mm ²	
Shearstrength Tangential	7.8 N/mm ²	
Shearstrength Max. resistance		8. 3N/mm ²

Uses : Internal and external constructions, carpentry, parquetry, beams, windows, doors, bridges, cofferdam, deckings, poles. Larix is popular in Germany, Austria, Belgium, France, UK, Russia, North China.

Sources : Dutch Houtvademecum, Russian GOST standard, T.U.V Germany Technical centre.

To give You an idea of quality 0-V, Export GOST 26002-83

Quality "0" : Pract. 4-sides clear of any defect.
 Quality "I" : Sap allowed, heart not allowed. Small healthy centre knots upto 12mm.
 Quality "II" : Sap allowed, heart not allowed. Small healthy centre knots upto 18mm.
 Quality "III" : Sap allowed, open heart allowed upto 1/3rd of the plank. Healthy centre knots allowed upto 38mm
 Quality "IV" : Sap allowed, open/boxed heart allowed, Healthy centre knots allowed upto 45-50mm.
 Quality "V" : Quality IV, but healthy centre knots allowed upto 50-70mm, but these defects shouldn't influence the strength of the board.

I-IV : the other types of knots are smaller.

Normally in III, IV and V wane is allowed in limited proportion, but we offer only square edged.

The below pictures give You an impression of the quality:



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Quality 0-I



Quality I-II





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Quality I-III

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Quality I-III

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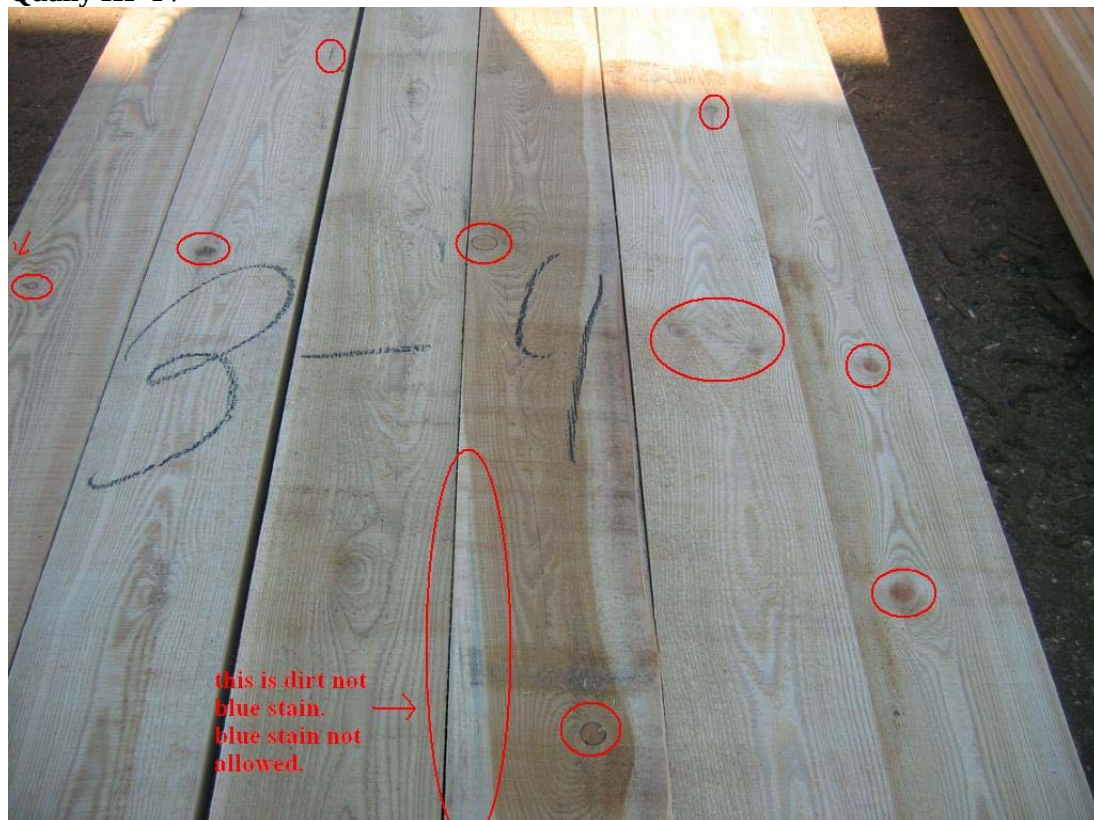
Quality I-IV





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Qualiy III+IV

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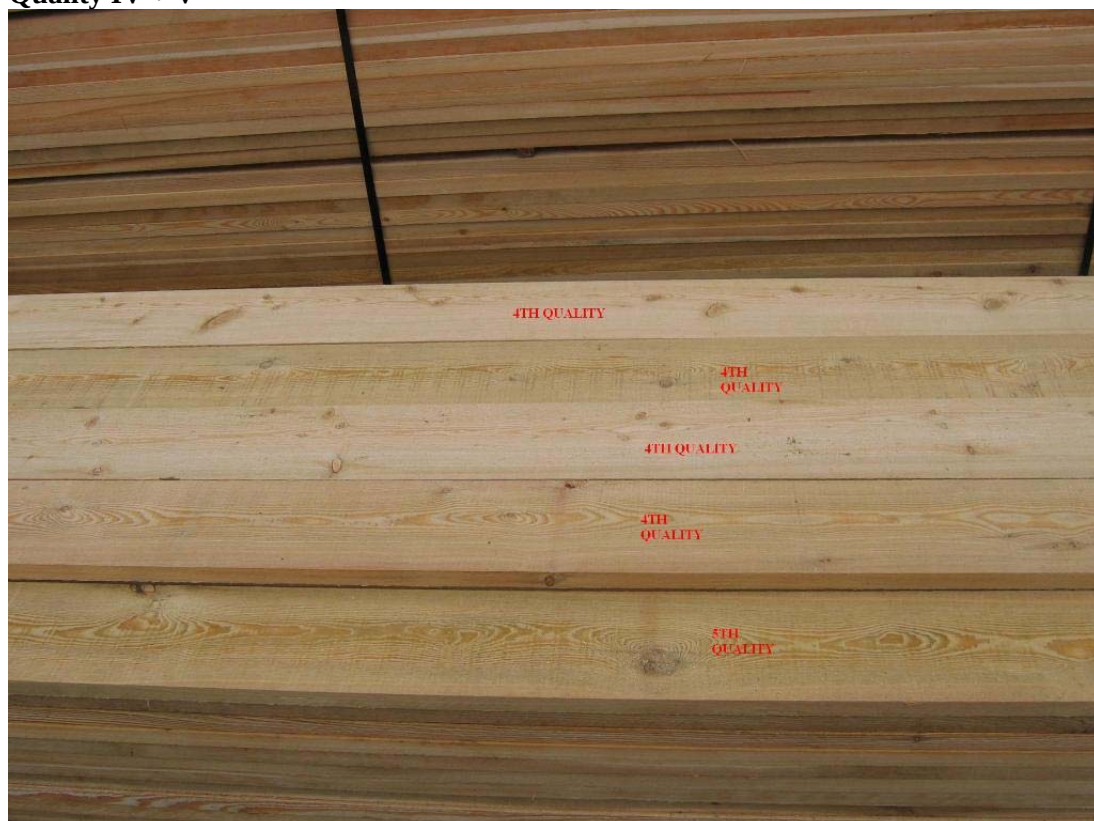


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Quality IV + V





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Quality I-IV

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