

LARIX EUROLEPIS HYBRID LARCH

Seed orchard Mourier Petersen FP.638

Composition

Hybrid larch (*Larix eurolepis*), seed orchard Mourier Petersen FP.638, is composed of plus trees of European larch (*Larix decidua*) of Polish origin selected by the Department of Polish State Forestry, Aboret Lesne, Sycow. Japanese larch (*Larix kaempferi*) is selected in the seed orchard C.E. Flensburg FP.601 as being the fastest growing species among 13 selected clones.

Selection criteria

Stem form, growth energy (diameter) and basal sweep. The selection strength was substantial for European larch and moderate for Japanese larch.

Objective

Production of seed of high physical and genetic quality for the production of wood.

Design

Rows of a mixture of European larch with 10 clones, which are planted in the following way; 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 1, 2, 3, 4, 5, 6 etc. and with one Japanese larch clone – being the only clone from which seeds are harvested. Documentation shows that flowering among the clones is well-balanced resulting in a high hybrid percentage.

Genetic gain

The Japanese clone K.47 will be mother clone in the seed orchard of Japanese larch in C.E. Flensburg FP.601, which belongs to the reference category “Tested”. When tested, K.47 shows a considerable gain on stem form, specific weight and growth energy. Offspring of the seed orchard *Larix eurolepis* Laugesen FP.638 was qualified in 2013 for the qualities diameter and stem form. FP.638, which comprises 12 clones as pollinators, must be characterised as genetically broad.

Recommended planting areas

All places where recommended to plant larch.

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FACTS

Composition

Year of propagation: 2004

Year of establishment: 2006

Plus trees represented when planted out: 1+12

Isolation to nearest Japanese larch:

Approx. 1,000 m

Reference number: FP.638

Reference category: Qualified

Reference objective: Production of wood

Identification

Species: Hybrid larch (*Larix eurolepis*),

Japanese larch (*Larix kaempferi*), X European larch (*Larix decidua*)

Ownership: Hedeselskabet

Supervisor: HedeDanmark a/s, Seed

Location: Mourier Petersen dept. 6a

Area: 3.0 ha

Country: Denmark

Latitude: N 56° 04.824'

Longitude: E 8° 25.518'

Altitude: 64 m

The components of the basic material and its offspring

| Polish No | Provenance | Origin |
|-----------|--|-----------------------------|
| Pl.121 | Poland, Region Wroclaw, Forest district Zdroje. South-east Poland, in natural numbers in the Carpathian mountains 200-510 m.a.s.l. | Aboret Lesne, Sycow, Poland |
| Pl.122 | | |
| Pl.124 | | |
| Pl.125 | | |
| Pl.126 | | |
| Pl.3580 | | |
| Pl.3581 | | |
| Pl.3582 | | |
| Pl.3583 | | |
| Pl.3584 | | |
| Pl.3585 | | |
| Pl.3586 | | |
| K. 47 | Hokaido, Japan | Kongenshus |