

LARIX EUROLEPIS HYBRID LARCH

Seed orchard Laugesen FP.651

Composition

Hybrid larch (*Larix eurolepis*), seed orchard Laugesen FP.651, 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*) has been 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 comprising 10 clones, which are planted in the following way: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 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 V.6090 will be mother clone in 3 different seed orchards in C.E. Flensburg's Hybrid larch FP.618 and in Japanese larch FP.601 and FP.615, which all belong to the reference category "Tested". When tested, they all show considerable gain on stem form, specific weight and growth energy. Offspring of the seed orchard *Larix eurolepis* Laugesen FP.651 was in 2013 qualified for the qualities diameter and stem form. FP.651, which comprises 10 clones as pollinators, must be characterised as genetically broad.

Recommended planting areas

All places where recommended to plant larch.

HedeDanmark a/s

T: +45 86 87 16 55

seed@hededanmark.dk

hdseed.dk

FACTS

Composition

Year of propagation: 2004

Year of establishment: 2006

Plus trees offspring represented when planted out: 1+10

Isolation to the nearest Japanese larch:

Approx. 1,000 m

Reference number: FP.651

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: Laugesen dept. 2c

Area: 1.64 ha

Country: Denmark

Latitude: N 56° 24.705'

Longitude: E 9° 40.320'

Altitude: 42 m

The components of the basic material and its offspring

Polish No.	Provenance	Origin
Pl.499	Poland, Region Katowice, Forest district and area Prószków, Prudnik, South-east Poland, in natural numbers in the Carpathian mountains 200-470 m.a.s.l.	Aboret Lesne, Sycow, Poland
Pl.501		
Pl.544		
Pl.545		
Pl.547		
Pl.549		
Pl.4422		
Pl.4425		
Pl.4426		
Pl.4431		
V. 6090	Hokaido, Japan	Kongenshus