

# Larix eurolepis, Hybrid larch

Seed orchard Truust FP.636



Cone setting in 2009.



FP.636 is an intensive managed seed orchard. Japanese larch – left (mother clone), European larch – right (father clone only used as pollinator).

## Composition:

Hybrid larch (*Larix eurolepis*), seed orchard Truust FP.636, is composed of plus trees of European larch (*Larix decidua*) and Japanese larch (*Larix kaempferi*) that have been tested separately in Danish provenance trials.

## Selection criteria:

Stem form and fast growth rate. The selection intensity is high for Polish larch and moderate for Japanese larch.

## Purpose:

Production of high quality genetic seed for timber production.

## Design:

The design of the orchard consists of alternate rows of European and Japanese larch clones. Four clones of European larch were used and were planted in the following way: 1, 2, 3, 4, 1, 2, 3, 4 etc. One Japanese larch clone was planted – this being the only clone from which seeds are harvested. Records show that flowering among the clones is well-balanced resulting in a high percentage of hybrids.

## Genetic gain:

The four European larch clones, which are part of FP.636, also form a part of the seed orchard of the Hybrid larch C.E. Flensburg FP.618, which has been tested. The Japanese larch clone K.47 is also part of the seed orchard of Japanese larch C.E. Flensburg F.601, which is also in the tested category. In these tests both seed orchards have shown a significant gain on stem form, (specific weight) wood density and growth rate. It is expected that progeny of Truust FP.636 will have the same high genetic qualities.

## FACTS

### Composition

**Year of propagation:** 1992 - 1995

**Year of establishment:** 1994 - 1998

**Plus tree progeny planted initially:** 1 + 4

**Isolation to the nearest Japanese larch:** Min. 500 metres

**Reference number:** FP.636

**Category:** Qualified

### Identification

**Species:** Hybrid larch (*Larix eurolepis*), Japanese larch (*Larix kaempferi*),

X European larch (*Larix decidua*)

**Ownership:** HedeDanmark a/s, Seed

**Supervisor:** HedeDanmark a/s, Seed

**Location:** Truust, Dept. 731a

**Area:** 3.44 hectares

**Country:** Denmark

**Latitude:** N 56°16,707'

**Longitude:** E 9°41,035'

**Altitude:** 45 metres above sea level

Description	Origin	Provenance
V.981, V.982, V.983, V.984	Plizyn, near Zagnásk, Poland	Noedebo, Dept. 488, SFF (The Danish Forest Experiment Station)
K.47	Hokaido, Japan	Kongenshus