

# *Abies alba*

## Habitus and growth type

Plant height [m]: **41.8**

Life span: **Perennial**

Life form: **Phanerophyte, Tree**

## Leaf

Leaf type (woody plants only): **Needle-like**

Leaf phenology (woody plants only): **Evergreen**

Specific leaf area [mm<sup>2</sup>/mg]: **5.66**

## Flower

Flowering period: **March-May**

## Fruit, seed and dispersal

Seed mass [mg]: **72.87**

Dispersal mode: **Anemochory, Anthropochory**

Dispersal distance class: **4, 7**

## Trophic mode

Parasitism and mycoheterotrophy: **autotroph**

Carnivory: **non-carnivorous**

Symbiotic nitrogen fixation: **no nitrogen-fixing symbionts**

## Taxon origin

Origin in Europe: **Native**

## Ecology

Environmental relationships

Substrate humidity relationship: **Mesic**

Substrate reaction relationship: **Slightly acidic to near-neutral**

Nutrient relationship: **Eutrophic**

Salinity relationship: **Non-saline**

Ellenberg-type indicator values

Temperature indicator value: **4.7**

Moisture indicator value: **6.1**

Reaction indicator value: **5.3**

Nutrient indicator value: **5.5**

Salinity indicator value: **0**

Disturbance indicator values

Disturbance frequency: **0.02**  
Disturbance frequency (herb layer): **1.3**  
Disturbance severity: **0.7**  
Disturbance severity (herb layer): **0.12**  
Mowing frequency: **0**  
Grazing pressure: **0.2**  
Soil disturbance: **0.11**

## Habitat and sociology

### Syntaxon

Diagnostic species of phytosociological classes: [BA \(PIC\) Vaccinio-Piceetea](#), [CA \(FAG\) Carpino-Fagetea sylvaticae](#)

### EUNIS habitat

Diagnostic species of EUNIS habitats: [T17 Fagus forest on non-acid soils](#), [T31 Temperate mountain Picea forest](#), [T32 Temperate mountain Abies forest](#), [T33 Mediterranean mountain Abies forest](#)

Constant species of EUNIS habitats: [T17 Fagus forest on non-acid soils](#), [T18 Fagus forest on acid soils](#), [T1D Southern European mountain Betula and Populus tremula forest on mineral soils](#), [T1F Ravine forest](#), [T31 Temperate mountain Picea forest](#), [T32 Temperate mountain Abies forest](#), [T33 Mediterranean mountain Abies forest](#), [T34 Temperate subalpine Larix, Pinus cembra and Pinus uncinata forest](#), [T39 Mediterranean and Balkan subalpine Pinus heldreichii-Pinus peuce forest](#)

Dominant species of EUNIS habitats: [T32 Temperate mountain Abies forest](#), [T33 Mediterranean mountain Abies forest](#)

### Broad habitat

Occurrence in broad habitats: **Forest**

## Distribution

Continentality: **5**  
Continentality amplitude: **3**