

Scientific Name: *Carpinus betulus*

Common Name: European Hornbeam

Environmental Conditions:

Hardiness Zone: 5a (4)

Soil Moisture:

VERY WET			VERY DRY								
occasionally saturated or very wet soil			consistently moist, well drained soil			occasional periods of dry soil			prolonged periods of dry soil		
2	3	4	5	6	7	8	9	10	11	12	

Sun/Shade: full sun

Salt: sensitive

pH: ≤ 8.2

Insect/Disease Factors: none serious or limiting, leaf minor possible, two-lined chestnut borer sometimes attacks ‘**Fastigiata**’

Growth Characteristics:

Height: 40’-60’

Width: 30’-40’

Form/Habit: pyramidal to rounded in youth, oval to rounded at maturity, fine textured branches, low branching tendency typically creates short trunk

Rate: slow to medium

Ornamental Characteristics:

Flower: catkins with light-green bracts, spring

Fruit: small green-brown nutlets at base of leafy flower bracts in pendulous clusters, mature in fall

Seasonal Foliage Color: dark green in summer, yellow to yellow-green in fall, fall color is often late

Bark: attractive, smooth slate-gray

Transplant Issues: difficult to transplant B&B or bare root, somewhat slow to establish

Management Issues: typically low branched, may require pruning to be used as street tree, tolerates heavy pruning, dieback can be a minor problem, narrow branch angles on columnar forms may be problem with heavy snow/ice loads

Suggested Uses: wide street tree lawns/pits, narrow tree lawns/pits with pruning, parks, suitable for CU-Structural Soil™, columnar forms useful for screening or hedging

Cultivars: ‘**Fastigiata**’ (35’-40’ high, 20’-30’ wide, narrowly conical becoming broadly oval-vase shaped with age, very dense branching), ‘**Columnaris**’ (another upward branching and compact crown form commonly confused with ‘Fastigiata’ in the nursery trade, theoretically ‘Columnaris’ develops a central leader and ‘Fastigata’ does not), ‘**Pyramidalis**’ (just another name given to ‘Fastigiata’ and ‘Columnaris’ forms), ‘**Franz Fontaine**’ (35’-40’ high, 15’ wide, narrowest form available, maintains narrow-columnar form with age as currant season’s growth curves inward toward central leader)



‘**Fastigiata**’