

Tree Report of 20669



Genus
Swietenia

Species
macrophylla


Common Name
Mahogani

Date of report
27th January, 2026

Address
Jalan P11

Position
2.9504488007625156, 101.67557010581281



 Static map of tree location



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Swietenia

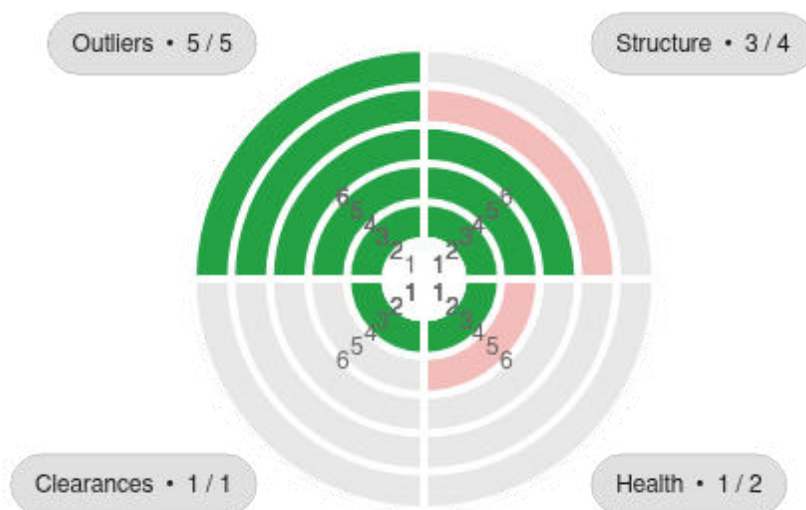
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Structural assessment

- ✗ Trunk stability (base)
- ✓ Crown Lean Angle
- ✓ Slenderness
- ✓ Dieback

Health & Vitality

- ✓ Dieback
- ✗ Foliage Transparency

Clearances

- ✓ Road

Outliers

- ✓ DBH vs Leaf Area
- ✓ Height vs Crown Volume
- ✓ DBH vs Height
- ✓ Leaf Area vs Crown Volume
- ✓ DBH vs Crown Volume

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Dimensions

Total Height	Very high	21.79 m	Crown Spread	Very large	18.01 m
Trunk Height	Very high	4.33 m	Tree Protection Zone	Very large	8.37 m
DBH	Very large	0.7 m	Root Protection Zone	Very large	12.56 m
Crown Height	Very large	18.41 m	Number Of Stems	Low	1

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Structural assessment

Stability

Slenderness	Medium	31.25	Crown Lean Angle	Very high	18.34 °
Trunk Stability Index		1.02	Trunk Lean Angle	High	5.7 °
Critical Wind Speed		70 kmh			

Limbs

Number of Limbs	-	Fork Types	-
Codominant Stems	-	Cross-sectional shape	-
Included Bark	-		

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Health and vitality

Condition & Vigor

Dieback	Low	0.04%	Foliage Transparency	44.03%
Basal Area Increment	-		Leaf Area	Very large 1,166.67 m ²
NDVI	-		Leaf Area Index	Medium 5.8

Foliage

Leaf Area Density	Low	0.58 m ² /m ³	Live Crown Ratio	Very high 84.46%
Crown Volume	Very large	2,031.47 m ³		

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Benefits

Water management

Avoided Water Runoff	Very high	0.7 m ³ /yr	Evaporation	Very high	12.18 m ³ /yr
Potential Evapotranspiration	Very high	75.21 m ³ /yr	Transpiration	Very high	14.43 m ³ /yr
Water Intercepted	Very high	12.27 m ³ /yr			

Ecosystem services

Carbon Storage	Very high	1,878.33 kg	CO Removal	Very high	27.23 g/yr
Carbon Sequestration	Very high	213.49 kg/yr	NO ₂ Removal	Very high	107.63 g/yr
Oxygen Production	Very high	564.14 kg/yr	O ₃ Removal	Very high	1,297.21 g/yr
PM _{2.5} Removal	Very high	67.73 g/yr	SO ₂ Removal	Very high	232.22 g/yr

Economical value

Cavat Value **Very valuable** 16,877.19 £

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Outlier information

Height / Crown Volume	No	Trunk Diameter / Height	No
Height / Leaf Area	No	Trunk Diameter / Leaf Area	No
Leaf Area Density Outlier	No	Overall Outlier Index	Low 0
Trunk Diameter / Crown Volume	No		

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Clearances

Building Clearance

⌵ Not available

Road Clearance

✓ No issue

Wire Clearance

⌵ Not available

Traffic Sign Clearance

⌵ Not available

Visibility Clearance

⌵ Not available

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