

# BamPRO Stakes

The advantages

Huge range of quality BamPro stakes available. The environmental alternative to hardwood stakes.

## BamPro Stake

Stakes milled from large bamboo, sawn and pointed. Stakes have a hardwood stake profile as an alternative to the hardwood stakes.

BAMPRO752010	Bamboo Stake 75cm 20x10mm	100pk
BAMPRO902010	Bamboo Stake 90cm 20x10mm	100pk

BAMPRO751220	Bamboo Stake 75cm 12x20mm	25pk
BAMPRO751525	Bamboo Stake 75cm 15x25mm	25pk
BAMPRO901220	Bamboo Stake 90cm 12x20mm	25pk
BAMPRO901525	Bamboo Stake 90cm 15x25mm	25pk
BAMPRO1201525	Bamboo Stake 120cm 15x25mm	25pk
BAMPRO1351525	Bamboo Stake 135cm 15x25mm	25pk
BAMPRO1501525	Bamboo Stake 150cm 15x25mm	25pk
BAMPRO1801525	Bamboo Stake 180cm 15x25mm	25pk



## What are the differences between Bamboo and Hardwood stakes?

Global Green are currently running trials of BamPRO solid stakes in the field for longevity testing against Hardwood.

As you would expect a solid BamPRO stakes will last longer than a quality bamboo cane which are quite durable and can last years. We are also about to undertake bamPRO versus hardwood lab tests on strength, flex etc. so we have some comparative data on physical properties.

Bamboo and hardwood stakes can vary significantly in terms of longevity, depending on factors like soil composition, moisture levels, and microbial activity. (See over for Longevity comparison between Bamboo and Hardwood stakes.)



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## Longevity of Bamboo Stakes:

### Bamboo Characteristics:

Bamboo is naturally resistant to many pests and rot due to its high silica content, but over time, soil exposure will lead to decomposition when driven into the ground as stakes.

Thicker-walled bamboo pieces, like the 25mm x 15mm cross-section, could be expected to last longer than traditional thin-walled canes due to their density and durability.

### Estimated Longevity:

Quality bamboo cane stakes typically last around 2 to 5 years when buried in the soil, depending on environmental conditions. Thicker, denser bamboo stakes like the BamPRO may push closer to the upper end of this range.

### Soil Types that Accelerate Breakdown:

Moist or waterlogged soils accelerate the breakdown of bamboo, as it creates an ideal situation for microbes and fungi to break the stake down.

Acidic soils tend to increase the rate of bamboo degradation due to the corrosive effects on organic materials.

Soils with high organic content are more likely to host microbes that can accelerate bamboo decay.

Clay soils that trap moisture can also lead to quicker degradation, while well-draining sandy soils tend to allow bamboo to last longer due to reduced moisture retention.

## Longevity of Hardwood Stakes:

### Hardwood Characteristics:

Hardwood stakes, particularly from durable species like eucalyptus, can withstand soil conditions much more than bamboo due to their density and resistance to rot.

Hardwoods are not as flexible as bamboo stakes so can snap at ground level after a period of time.

### Estimated Longevity:

Hardwood stakes typically last around 3 to 7 years when driven into the ground.

### Soil Types that Accelerate Breakdown:

Waterlogged or consistently damp soils will lead to faster decay of hardwoods due to microbial and fungal growth.

Acidic soils can also shorten the lifespan of hardwood stakes, as they encourage microbial activity that degrades wood faster.

Sandy soils tend to prolong the life of hardwood stakes by allowing moisture to drain away, reducing rot and fungal growth.

Clay-rich or compact soils that hold moisture can also accelerate decay.

## Summary Comparison:

Bamboo stakes (25mm x 15mm) are expected to last 2-5 years in most soil types, with breakdown accelerated in wet, acidic, or high-organic-content soils.

Hardwood stakes of similar dimensions can be expected to last 3-7 years, with longevity heavily influenced by soil moisture, drainage, and acidity.