

INCA BioShield™ plant guide

Tropics

Lowland tropics of Malaysia, Indonesia, Thailand and Vietnam

INCA BioShield™ is a concept for biologically enhanced protection zones that combines carefully selected, low-growing, climate-adapted vegetation with INCA WFS net®.

INCA BioShield™ does not rely on a single plant species. Each installation is designed with vegetation selected for local climate, rainfall, temperature, soil conditions, environmental regulations and ecological requirements.

INCA BioShield™ manages the vegetation. INCA WFS net® protects against the fire.

Species in this guide

Sea purslane	<i>Sesuvium portulacastrum</i>
Pinto peanut	<i>Arachis pinto</i>
Manila grass	<i>Zoysia matrella</i>
Beach morning glory	<i>Ipomoea pes-caprae</i>

No vegetation should be considered fireproof.

Plant selection should always be made together with local experts, to ensure ecological compatibility, avoid invasive species and protect biodiversity.

Plant performance always depends on species selection, climate, maintenance, drought conditions and local environmental factors.



Sea purslane

Sesuvium portulacastrum · Trailing coastal succulent

Status	Native in Malaysia, Indonesia, Thailand and Vietnam; not recorded for Borneo
Height	Under 30 cm
Conditions	Full sun; tolerates saline and poor soils



Pinto peanut

Arachis pinto · Spreading perennial legume

Status	Introduced; native to Brazil
Height	20–50 cm
Conditions	Full sun; well-drained soil



Manila grass

Zoysia matrella · Low mat-forming grass

Needs regular mowing

Status	Native in Malaysia, Indonesia, Thailand and Vietnam
Height	Up to 40 cm
Conditions	Full sun; well-drained sandy to loamy soil



Beach morning glory

Ipomoea pes-caprae · Trailing coastal vine

Needs regular pruning

Status	Native in Malaysia, Indonesia, Thailand and Vietnam
Height	10–15 cm
Conditions	Full sun; well-drained sand or loam

Sources

Status	Plants of the World Online, Royal Botanic Gardens, Kew
Height and conditions	National Parks Board Singapore, Flora & Fauna Web University of Hawaii University of Florida IFAS