ecovaclad

Specification Data Sheet

SAPELE Type: Hardwood Source: African

Sapele is an extremely durable timber and used for external applications because of resistance to decay. Sapele cladding does not need much attention or treatment, it can be left and will weather on its own. Sapele Timber, predominantly from West Africa, is a reddish-brown hardwood. Although some parts of the Sapele logs will produce straight-grain or 'quartered' effect, generally it has a more random grain appearance, thus meaning it is liable to interlocked grain. Sapele hardwood is moderately durable.

Embodied Carbon (kgCO2e / m2)* = 0 (10.21 Offset)

Ecova Clad Sapele Durability Classification

Common name		Natural Durability Class BSEN350:2:1994	Movement	Strength
Tropical hardwoods	Sapele	2	Small	High

Durability Classifications

		Desired service life (years)	
Natural durability class	Need for treatment/modification	Occasionally wet	Frequently wet
1 (Very durable)	Suitable without treatment	>60	60
2 (Durable)	Suitable without treatment	60	30
3 (Moderately durable)	Suitable without treatment except for tall or exposed buildings	30	15 (untreated)
4 (Slightly durable)	Treatment required	15-30 years treated	15-30 years treated
5 (Not durable)	Treatment required	15-30 years treated	15-30 years treated

Treatments and Finishing

- Difficult to work with

Moisture Movement

Medium

Wood's moisture content will change relative to its surroundings. Different species have different degrees of movement and this must be accounted for in cladding design.

Good design and installation practice will help minimize the effects of moisture:

- Use eaves and overhangs to deflect rain - or flashing to protect the board tops
- Finish cladding at least 200mm from the ground or a horizontal surface. Where possible use a surface that diffuses rain, such as gravel
- Board widths should generally be 4 to 6 times board thickness (typically less than 150mm)
- Design detailing must include measures that minimise water penetration

Profiles

Wide choice of standard profiles (see Ecova Clad profiles guide)

Density (mean, Kg/m³):

640 kg/m3

Recommended Fixings/Flashings

Stainless steel or galvanised screws

Colour(s)

Reddish Brown

Fire compliance

Exterior cladding - Timber cladding is suitable for buildings of 18m or lower. No combustible materials are permitted for cladding on residential buildings over 18m high.

Environmental

Listed in the IUCN Red List of threatened species as VU – Vulnerable: at risk of extinction.

*The embodied carbon calculation does not account for final delivery to site