INSIGNIS

FLOORS PVT. LTD.

BRAZILIAN HARDWOOD

IPE

The King of Hardwoods

SPECIFICATIONS · COMPARISON · DURABILITY



THE MATERIAL

A density that *sinks in water*

IPE (Handroanthus spp.) is a dense tropical hardwood from the forests of Brazil and South America. Prized for outdoor decking, cladding and furniture, it pairs the richness of fine timber with the resilience of stone — weathering decades of sun, rain and footfall with almost no structural change.

1050
kg/m³ density
denser than water

75 yr
lifespan untreated
in-ground rated

A
fire rating
equal to steel



TECHNICAL DATA & PERFORMANCE

Specifications & performance

SPECIFICATIONS

Botanical name	**Handroanthus spp.**
Origin	**Brazil & South America**
Janka hardness	**3,510 lbf**
Density (kiln-dried)	**~1,050 kg/m³**
Modulus of rupture	**22,560 psi**
Durability class	**Class 1 — very durable**
Fire rating	**Class A (ASTM E84)**
Tangential movement	**Low — stable**

PERFORMANCE — BUILT TO LAST

- **Class 1 durability**
  The highest natural rating — no chemical treatment, ever.
- **Rot, mould & termite proof**
  Dense oils and tight grain leave nothing for pests or fungi.
- **Class A fire rating**
  Resists flame spread on par with concrete and steel.
- **Dimensionally stable**
  Minimal swell, cup or warp through monsoon and dry season.
- **Heavy-traffic ready**
  Specified for boardwalks and commercial decks worldwide.

HOW IT COMPARES

IPE vs. the alternatives

	IPE	Cumaru	Garapa	WPC Composite	Treated Pine
Janka hardness	**3,510**	3,330	1,650	n/a	690
Density kg/m³	**1,050**	1,085	830	~1,150	550
Lifespan (yrs)	**40–75**	25–40	15–25	10–25	10–15
Rot / termite	**Class 1**	Yes	Moderate	Inert	Treated
Fire rating	**Class A**	Class A	Class B	Burns	Class C
Surface in sun	**Cool, stable**	Cool	Cool	Hot, fades	Cool

RESTORATION

Weathered today, *renewed in a weekend*



No sanding. No refinishing.

Left in the open, IPE silvers to a refined driftwood grey — a finish many owners prefer. When the deep mahogany tone is wanted back, the wood doesn't need stripping or sanding.

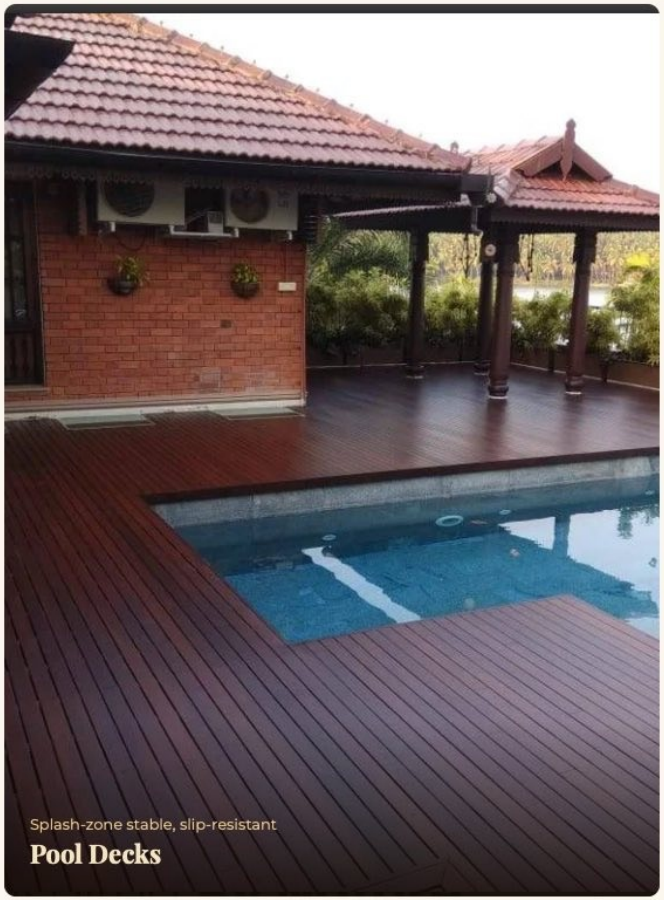
A simple wash and a coat of penetrating oil restores the original colour in a single weekend. Because the timber itself never decays, the surface is the only thing that ever changes.

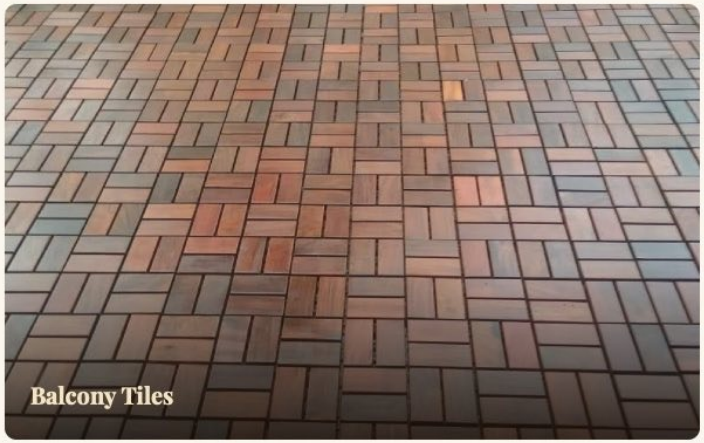
1 day
clean & re-oil

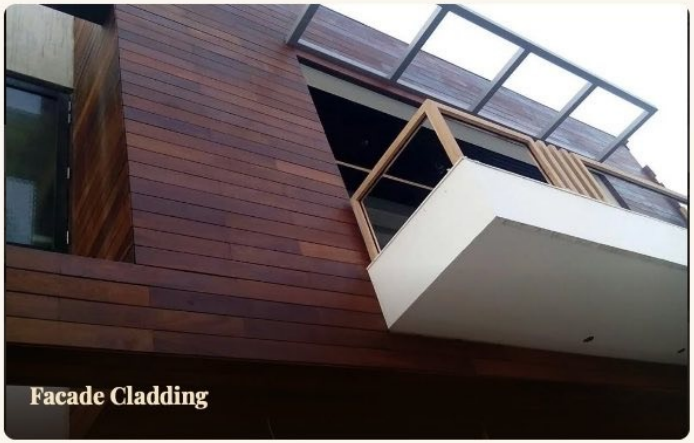
0
boards replaced

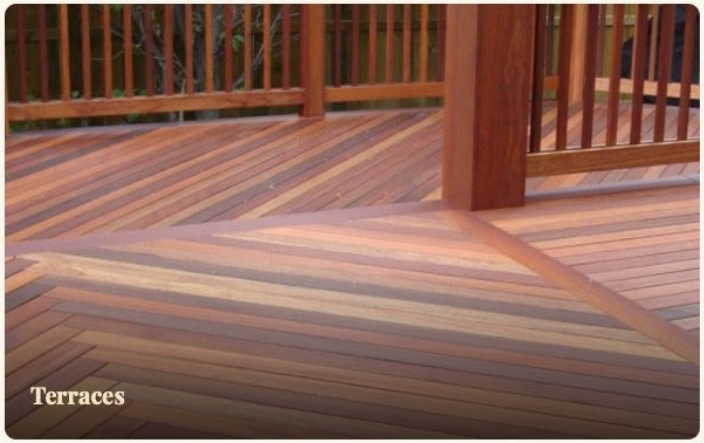
WHERE IT PERFORMS

One material, the whole exterior











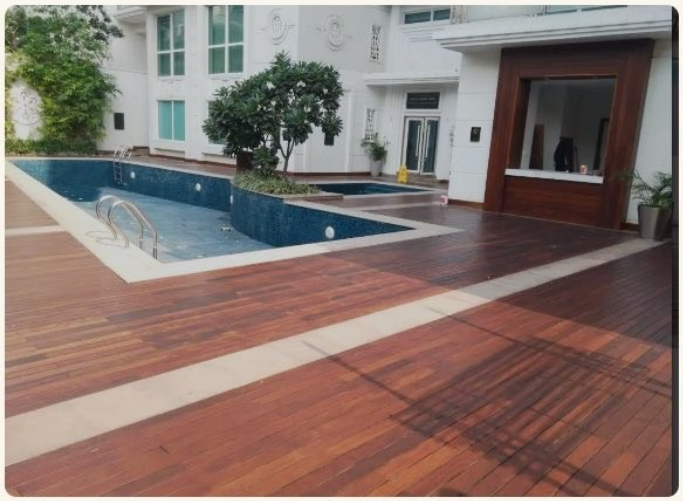
SELECTED WORK

Installed & enduring

Real Insignis projects








INSIGNIS FLOORS

Floors — Inspired by Nature

OFFICE

Insignis Floors Pvt. Ltd.
WeWork Berger Tower, 19th Floor, Delhi One,
C-001/A2, Sector-16B, Noida — 201301,
Uttar Pradesh, India

GET IN TOUCH

+91 98995 03436
+91 98718 91135
www.insignis.in