exterpark & the magnet®

DOUSSIE

WOOD FEATURES

Botanic Name
Azfelia bella Harms
Azfelia africana Smith.

Commercial Name
Doussie, Azfelia.

Location and traceability
All our Doussie comes from plantations in west and centrer Africa.

Wood Fitness
Doussie is rated as Ç
Exterpark wood fitness A+ .

Hardness
7.4 - hard

Grain
Straight, sometimes could be interweaved

Colour
Red-brown.
Will fade to silver grey if exposed to U.V. rays. High density wood with no risk to be attacked by termite.

Density
730-800-830 Kg/m³

Contration
Moderately nerved

EXTERPARK'S FINMANUFACTURING

All exterpark raw materials are kiln dried to achieve balance humidity level of 15-18% in individual processes which may last from one week to a month depending on current humidity contents and actual wood specie. Such balance humidity level is key to a good perfomance when interacting with changing outdoor weather conditions. All cumaru boards are produced in 30cm/40cm increments. All double joists will be laid at 30cm/40cm span and all short end connections will be clipped down. That will be most possible solid platform for a long service life and performance of the product.

OFICIAL PERFORMANCE TESTS

Loading capacity (Exterpark Magnet Doussie + Aluminum joists + Pedestals) 4000kg
Slip Resistance according to UNE-ENV 12633:2003. . . . . Class 3Rd>45
(best class requested for outdoor flooring and humid areas)
Wind load resistance test in accordance with ETAG 034. . . . . Suction test: 4500pa - 320km/h
Pressure test: 3000pa
Golf car test . . . . . .Traction and fatigue on wood flooring exterpark magnet

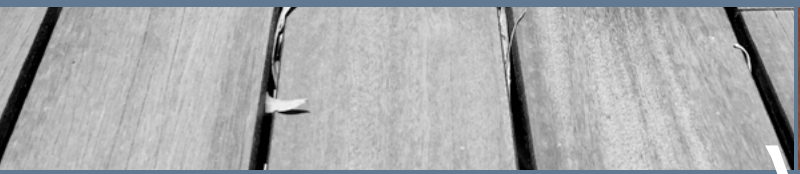
PHYSICAL AND MECHANICAL PROPERTIES OF DOUSSIE

Contraction Coefficient. . . . . .Volumetric: 7.8% (0.44)
Tangential: 4.2-4.6% (0.27-0.34)
Radial: 3.0-3.1% (0.19-0.21)
Static Bending . . . . . .110-150 N/mm²
Elasticity Module . . . . . 12.200 - 17.700 N/mm²
Axial Compression . . . . . .63-85 N/mm²
Perpendicular compression . . . . . - N/mm²
Shear . . . . 7.4-14.6 N/mm²
Durability . . .very resistant against the action of fungui and termites not attackable by lyctids

FINISHING

Exterpark boards can be pre-oiled at our factory
- Full protection of board on all sides
- No concern about exposure to humidity during fit out
- Gain in stability and durability
- Improved resitance to environmental adversities

Exterpark oil can be supplied for maintenance purpose after colour fading due to uv exposure.



STANDARD PROFILE WITH OPEN GAPS VS EXTERPARK INVISIBLE PROFILE

ASSEMBLY

easy No screws

fast No predrilling

silent No tools

COST-EFFICIENT

TOTAL ACCESSIBILITY

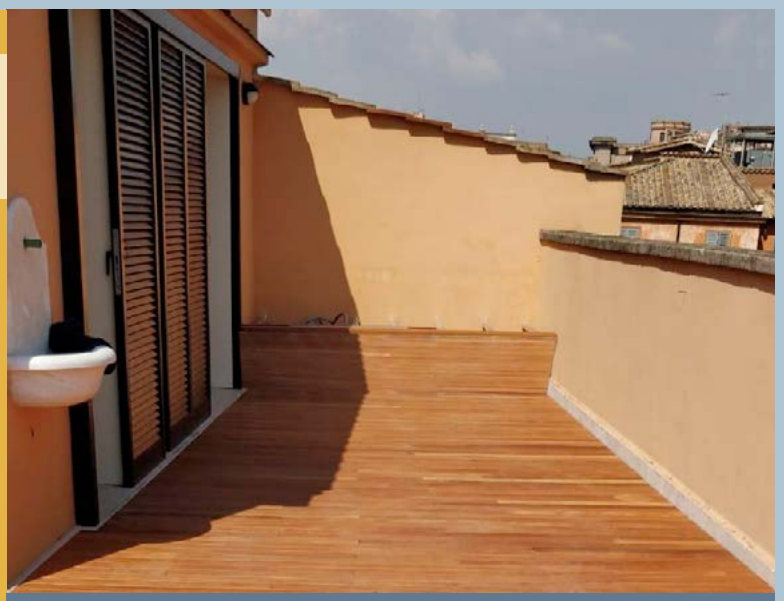
maintenance friendly

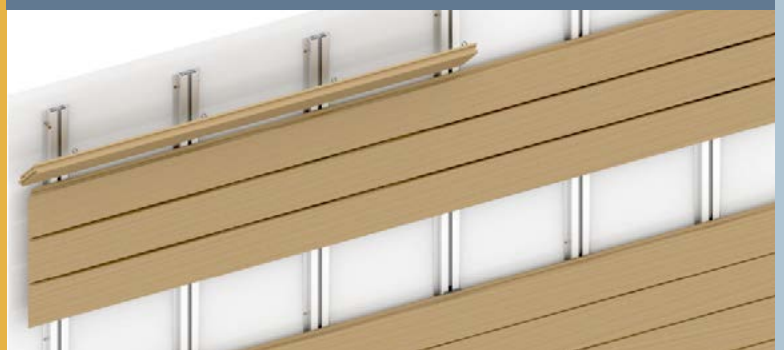
easy substitution of boards

enlarged service live

relocation possibilities

REUSABLE



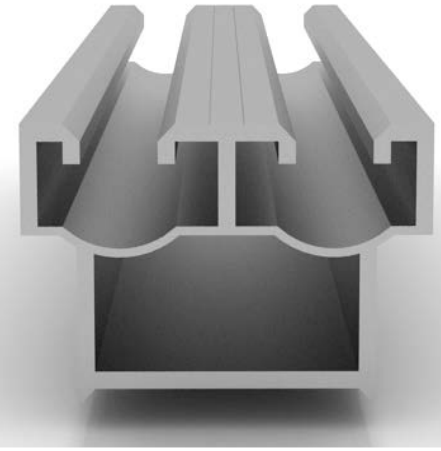


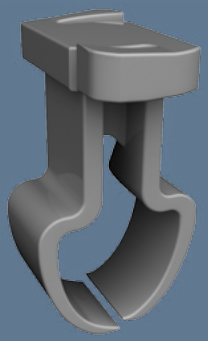
Profile & Dimensions

More solid | Greater wear surface | More stable | More resistant and durable

21x100 mm

Magnet Installation Kit





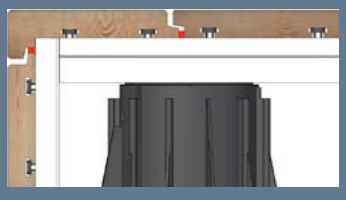
The Magnet clip is the corner stone of the system. The key is the strength with the right flexibility. Fully made of POM, a high performance engineering thermoplastic with excellent dimensional stability even at extreme conditions. Strong yet flexible, low friction coefficient and high abrasion resistance.

Spacer: Leave 4mm separation between boards for an optimum drainage.

Blocking Spacer: Ensure an excellent performance of the wood and at the same time prevent misplacement.

Double Joists: Under each short end secures the board ensuring a long lasting intallation.

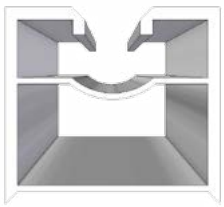
L-Shape Board 45x95mm



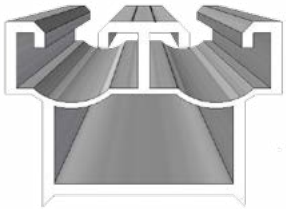
Aluminum Joists

LOW

WALLS



SINGLE



DOUBLE

A SOLID ROCK FOUNDATION

- Improved loading capacity to more than 4000kgs/sqm
- Superior mechanical properties to hold clips
- Upgraded stability: remain straight, won't warp or decay
- Enlarged service life
- Save costs and time by using less pedestals
- Fixed lengths of 2200mm

Height-adjustable pedestals

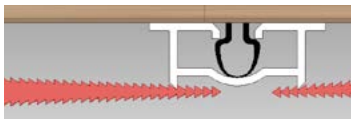
From 5 cm up to more than 1 meter

Magnet tool

Opens boards in less than 5 seconds

Wedges

From 5 mm and up to 25 mm



the magnet®

EXTREME DURABLITY

The Magnet clip is genuinely fully made of Polyoxymethylene (POM) featuring mechanical and physical properties such as high mechanical strength and rigidity, excellent fatigue and impact resistance, as well as resistance to moisture, lubricants and solvents. Essential for the performance of the clip system this material also has excellent dimensional stability, good electrical insulating characteristics, naturally resilient and self-lubricating.

Typical applications for injection-molded POM include high performance engineering components. The material is widely used in the automotive and consumer electronics industry.

FULL PERFORMANCE IN ANY ENVIRONMENT

Withstands –40 °C to +90 °C
Density of –=1.410–1.420 g/cm3.
Melting point of 178 °C

TECHNICAL DATA

Mechanical Properties	Value	Test Standard
Tensile modulus	2300 MPa	ISO527-1/-2
Yield stress	56 MPa	ISO527-1/-2
Yield strain	18%	ISO527-1/-2
Nominal strain at break	35%	ISO527-1/-2
Flexural modulus	2100 MPa	ISO178
Flexural stress at 3.5%	60 MPa	ISO178
Tensile creep modulus		
1 h	2300 MPa	ISO899-1
1000 h	1200 MPa	ISO899-1
Thermal Properties		
Melting temperature	178 °C	
ISO11357-1/-3		
Temp. of deflection under load		
1.8 MPa	78 °C	ISO75-1/-2
0.45 MPa	146 °C	ISO75-1/-2
Vicat 50°C/h, 50N	140 °C	ISO306
Coef. of linear thermal expansion		
Parallel	130 E-6/K	ISO11359-1/-2
Normal	120 E-6/K	ISO11359-1/-2

CLASSIFICATION FOR OUTDOOR SUITABILITY:

F1

material meets both UV and water immersion requirements
UL 746C