

# the magnet®

## DECKING REINVENTED

by **exterpark**



# CUMARU

## WOOD FEATURES

### Botanic Name

Dipterix odorata Willd. Syn.-  
Coumarouna odorata Aubl. Dipterix  
punctata Amsh. Dipterix trifoliata  
Ducke. Dipterix spp.

### Commercial Name

Cumaru, Kumaru, Brazilian Teak

### Location

South America

### Wood Fitness

Hard and dense wood types which  
are stable and suitable for outdoor  
exposure.

### Hardness

Hard

### Grain

Interweaved

### Colour

Yellow-red, dark interweaved grain

### Density

1070 Kg/m<sup>3</sup>

### 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 performance when interacting with changing outdoor weather conditions. All brazilian teak 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 Brasilian Teak + 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 BRAZILIAN TEAK

Contraction Coefficient. . . . . Volumetric - (0.73)  
Tangential: 7.9% (-)  
Radial: 5.5% (-)  
Static Bending . . . . . 199 N/mm<sup>2</sup>  
Elasticity Module . . . . . 22.000 N/mm<sup>2</sup>  
Axial Compression . . . . . 105 N/mm<sup>2</sup>  
Perpendicular compression . . . . . 21 N/mm<sup>2</sup>  
Shear . . . . . 22 N/mm<sup>2</sup>  
Durability . . . . . very resistant against the action of fungi , termites and xylophagi

### 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 resistance 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





Hotel Princesa Sofia · Barcelona

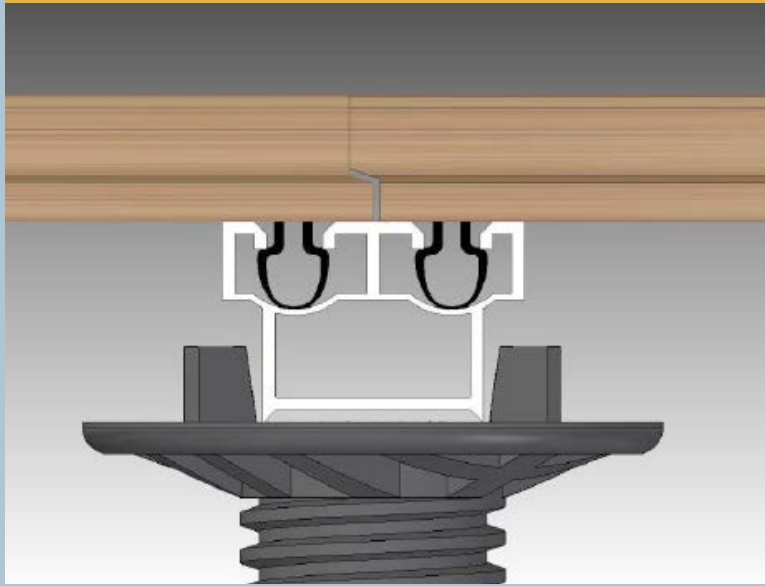
## ASSEMBLY

**easy** No screws

**fast** No predrilling

**silent** No tools

# COST-EFFICIENT



## TOTAL ACCESSIBILITY

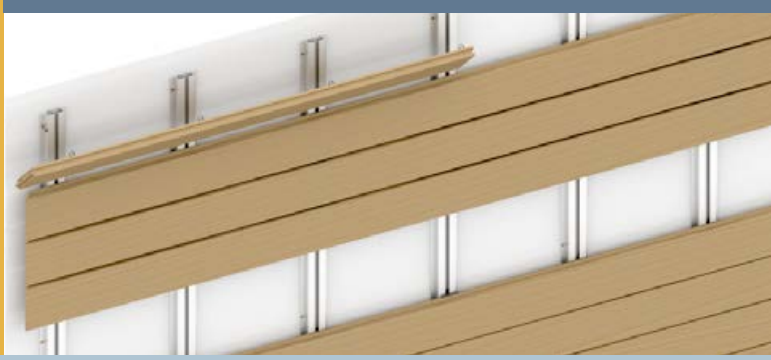
maintenance friendly

easy substitution of boards

enlarged service life

relocation possibilities

# REUSABLE





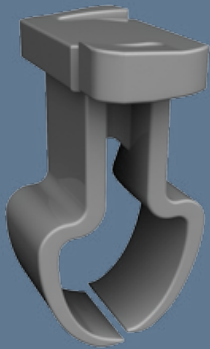
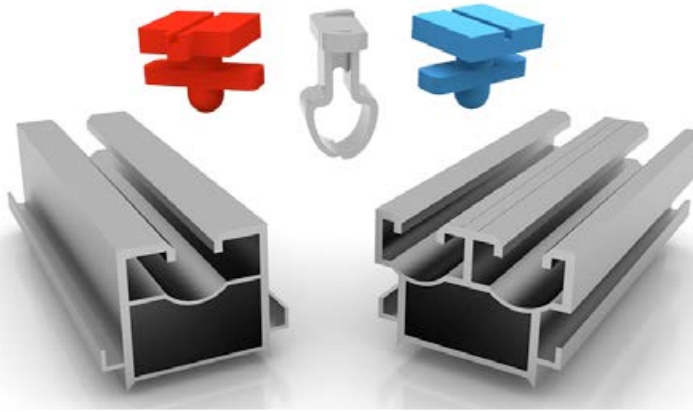
# PROFILE & DIMENSIONS

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



17x100 mm  
21x100 mm  
28x120 mm

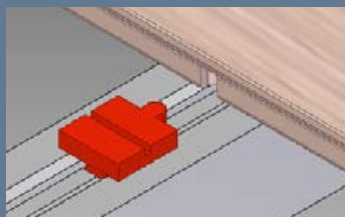
## MAGNET INSTALLATION KIT



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 and Blocking Spacer:

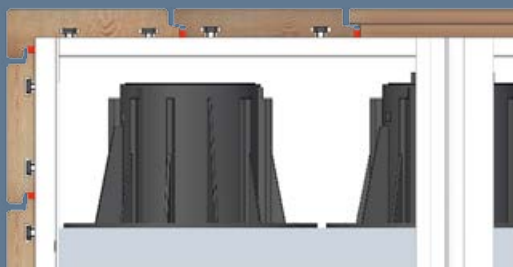
Leave 4mm separation between boards for an optimum drainage. Blocking units ensure an excellent performance and prevent longitudinal misplacement.



The **Double click Joist** for the short end connections is a must for the good performance of the product. It has a 4mm indicative spacing mark for the expansion gap.

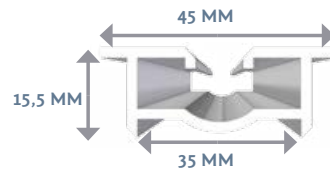


### L profile / Edge Board:



## ALUMINUM JOISTS

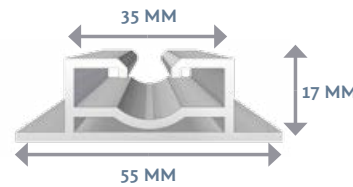
### LOW SIMPLE



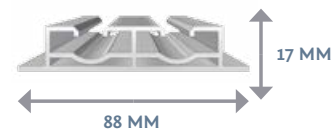
### LOW DOUBLE



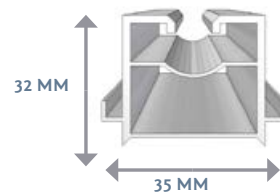
### WALLS



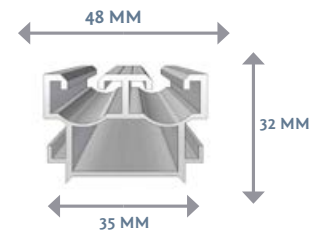
### WALLS DOUBLE



### SINGLE



### DOUBLE



## A SOLID ROCK FOUNDATION

- Improved loading capacity to more than 4000kgs/sqm
- Superior mechanical properties to hold clips
- Upgraded stability: remain straight, will not 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



### CROSS JOIST

Exterpark latest contribution to a better installation and long lasting deck.



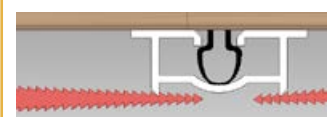
### MAGNET TOOL

Opens boards in less than 5 seconds



### WEDGES

From 5 mm and up to 50 mm



# the magnet®



## EXTREME DURABILITY

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  $-40\text{ }^{\circ}\text{C}$  to  $+90\text{ }^{\circ}\text{C}$   
Density of  $\approx 1.410\text{--}1.420\text{ g/cm}^3$ .  
Melting point of  $178\text{ }^{\circ}\text{C}$

## 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