

# exterpark & the magnet®

ARGUABLY BEST DECKING AVAILABLE WITH TWO PATENTED INNOVATIONS

## IPE

Patented invisible profile with no open gaps, screwless installation patented magnet system with 100% accessible boards.

## WOOD FEATURES

### Botanic Name

Tabebuia ipe Standl.  
Tabebuia serratifolia Nichols

### Commercial Name

Ipe, Lapacho, Brazilian Walnut

### Location

South America

### Wood Fitness

Hard and dense wood type which is stable and suitable for total outdoor exposure

### Hardness

Very Hard

### Grain

Interweaved

### Colour

Dark brown-brown (will fade to silver grey if exposed to U.V. rays)

### Density

1050 Kg/m<sup>3</sup>

## EXTERPARK'S FINE MANUFACTURING

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 ipe boards are produced in 30cm increments. All double joists will be laid at 30cm span and all short end connections will be clipped down. That will be the most possible solid platform for a long service life and performance of the product.

## PHYSICAL AND MECHANICAL PROPERTIES OF IPE

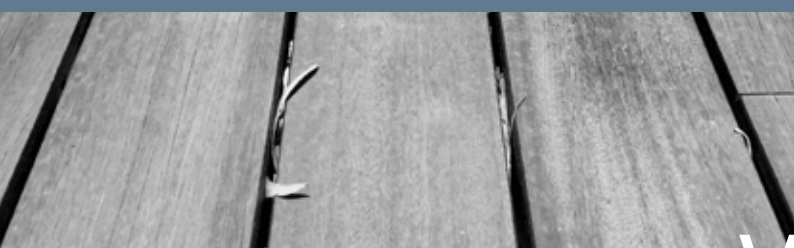
Contraction Coefficient. ....	Volumetric (0.68)
	Tangential: 6.4-6.5% (0.35)
	Radial: 5.1-5.2% (0.26)
Static Bending .....	184 N/mm <sup>2</sup>
Elasticity Module.....	18.300 - 18.800 N/mm <sup>2</sup>
Axial Compression .....	95 N/mm <sup>2</sup>
Shear.....	14 N/mm <sup>2</sup>
Durability.....	extremelly resistant against the action of fungus , 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

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



# VS

STANDARD PROFILE WITH OPEN GAPS

EXTERPARK INVISIBLE PROFILE



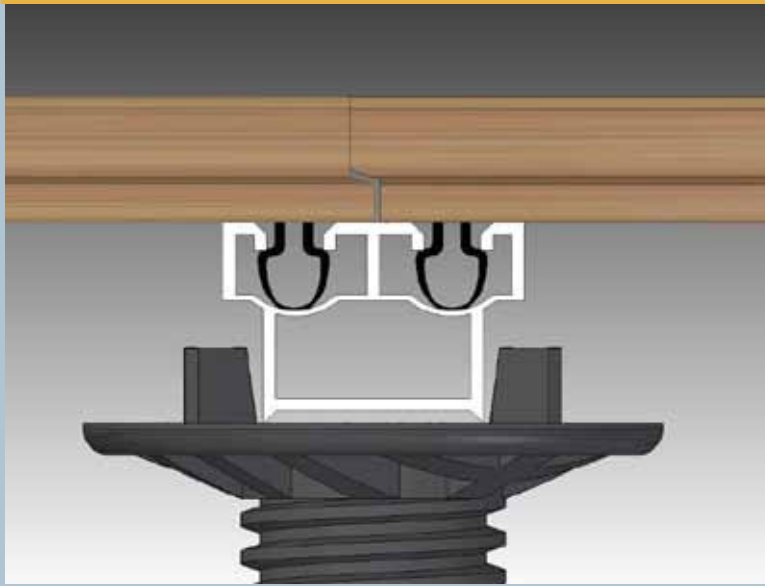
## ASSEMBLY

**easy** No screws

**fast** No predrilling

**silent** No tools

# COST-EFFICIENT



## TOTAL ACCESSIBILITY

maintenance friendly

easy substitution of boards

enlarged service life

relocation possibilities

# REUSABLE





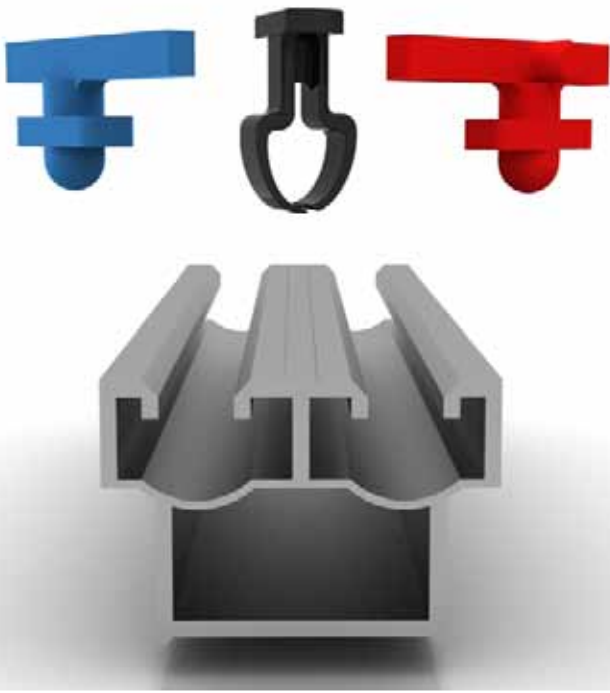
# PROFILE & DIMENSIONS

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



21x95 mm

## MAGNET INSTALLATION KIT

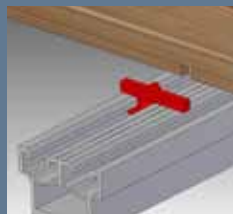


The **Magnet clip** is the corner stone of the system. The key is the strength with the right flexibility. Fully made of POM, a high performance engineering thermoplastic with excellent dimensional stability even at extreme conditions. Strong yet flexible, low friction coefficient and high abrasion resistance.

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

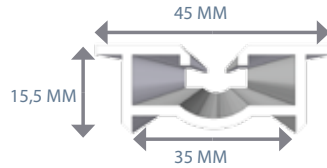
**Blocking Spacer:** Ensure an excellent performance of the wood and at the same time prevent misplacement.

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

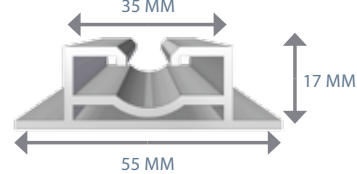


## ALUMINUM JOISTS

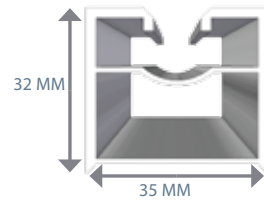
### LOW



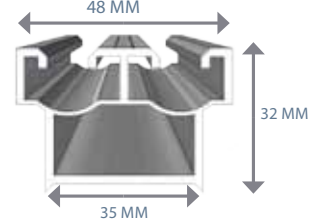
### WALLS



### SINGLE



### DOUBLE



## A SOLID ROCK FOUNDATION

- Improved loading capacity to more than 4000kgs/sqm
- Superior mechanical properties to hold clips
- Upgraded stability: remain straight, 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

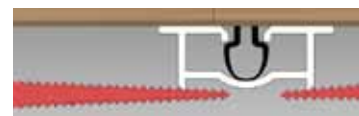
## MAGNET TOOL

Opens boards in less than 5 seconds



## WEDGES

From 5 mm and up to 25 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  $\rho=1.410\text{--}1.420\text{ g/cm}^3$ .  
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