



# exterpark

## DECKING REINVENTED

### TECH NEXUS



Dual-tone Surface Coating for Enhanced Visual Appeal. Manufactured by a co-extrusion process featuring an asymmetrical patented profile with invisible gaps, a hollow body, a carefully curated color combinations create a captivating visual effect and side grooves for Magnet S Clips.

#### ASSETS

- Patented profile with invisible gap
- Patented installation system: **The Magnet S**
- Installation with no screws
- 100% accessible
- Easy installation and maintenance
- 3x faster
- All-weather resistant
- Termite and insect-proof
- Low surface maintenance
- Barefoot friendly

#### COMPOSITION

- 60% Bamboo flour
- 30% High Density Polyethylene
- 10% Additives



#### RECYCLED CONTENT

95% recycled materials including P.E. and reclaimed FSC wood fibres. Excellent eco-friendly floor that can help generate LEED points.

#### MODIFIED PLASTIC SHELL

feature a dual-tone surface coating, resulting in a visually striking and aesthetically pleasing appearance. Capped the outer shell of the polymer surface for water-proof protection, scratch-resistant, anti-stain, moisture, mould, fade and mildew.



**Tech Cube S weight:** 17.8 kg/m<sup>2</sup>

**Approximate weight Tech Cube + Magnet**

**accessories:** 20 kg/m<sup>2</sup>

#### PHYSICAL AND MECHANICAL PROPERTIES

Modulus of Elasticity .....	3425.22
Hardness .....	3287 N
Density .....	1.26
Bending strength .....	32.16 Mpa
Linear thermal expansion.....	BS EN 15534-1 : 2014+A1:2017
Moisture resistance/boiling .....	Water test
Freeze Thaw cycling test.....	ASTM D7032-2017
Falling ball impact temperature normal/low .....	GB/T 17657-2013
Shore hardness.....	ISO868:2003
Abrasion .....	ASTM D4060 Index 27 and Index 33
UV resistance .....	ASTM G154-2016
Creep recovery rate .....	BS EN 15534-1 : 2014+A1:2017
Scratch resistance .....	FORD FLTM BO 162-01-2009

Linear Thermal Expansion Coefficient	°C -1	BS EN 15534-1-2014+A1-2017	≤ 5.0x10 <sup>-5</sup>	20°C	STGJ123	4,8x10 <sup>-5</sup>
				-80h	STGJTHM137	4,89x10 <sup>-5</sup>

#### OFFICIAL PERFORMANCE TESTS

Loading capacity .....

(Exterpark Tech NEXUS + Aluminum joists + Pedestals) ..... 4000 kg/m<sup>2</sup>

Wind load resistance test in accordance with ETAG 034 ..... Suction test: 4500 pa - 320 km/h

Pressure test: 3000 pa

Golf car test .....Traction and fatigue of the Magnet

Weathering Xenon Arc Exposure \*2000 hrs ..... Colour change / Moderate Effect

Chalking / No effect ..... Checking / No effect ..... Cracking / No effect

Blistering / No effect ..... Flaking / No effect

**Slip resistance according to UNE-ENV 12633:2003 ..... Class 3Rd > 45 R11**

(best class requested for outdoor flooring and humid areas)

**Fire resistance ( EN 13501-1:2007 +A:2009 ) ..... C(fl)-S1**

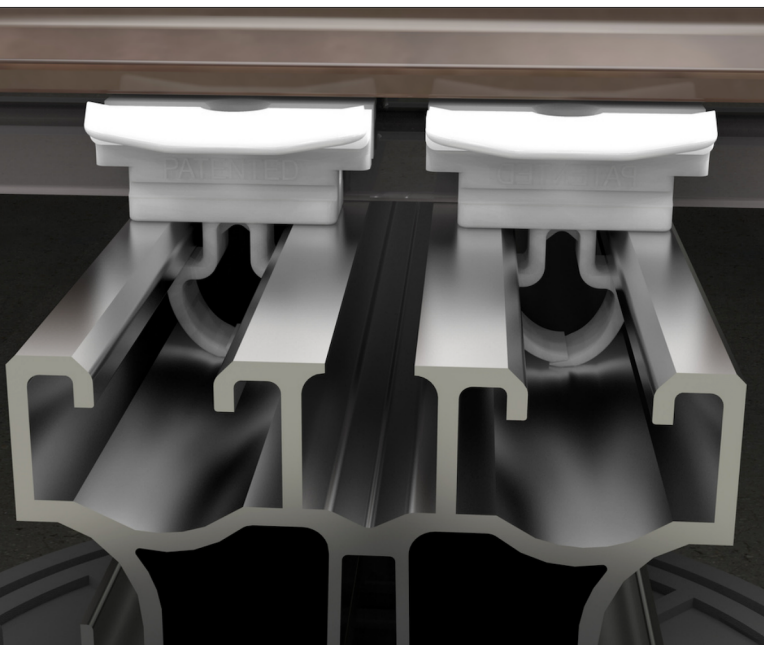


# MAGNET



## ASSEMBLY

NO SCREWS  
NO PREDRILLING  
NO TOOLS  
NO NOISE  
**3**× FASTER



## TOTAL ACCESSIBILITY

MAINTENANCE FRIENDLY  
EASY SUBSTITUTION  
OF BOARDS  
ENLARGED SERVICE LIFE  
RELOCATION POSSIBILITIES

**REUSABLE** 



STANDARD PROFILE WITH OPEN GAPS

VS



EXTERPARK INVISIBLE PROFILE

# COLOUR RANGE & SIZES

22X145X2200 MM

AMBER

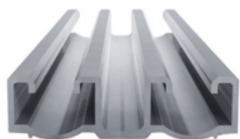
## MAGNET INSTALLATION KIT



DOUBLE BLOCKER



MAGNET CLIP



LOW DOUBLE JOIST



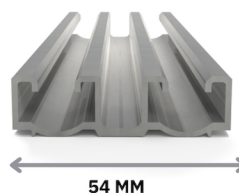
DOUBLE JOIST

## ALUMINUM JOISTS

LOW DOUBLE

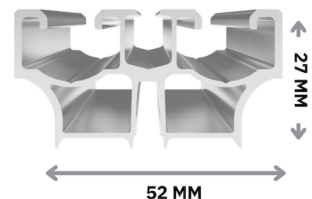
DOUBLE

15.5 MM



54 MM

27 MM



52 MM

### A SOLID ROCK FOUNDATION

- Improved loading capacity to more than 4000 kgs/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 fewer pedestals
- Fixed lengths of 2200mm

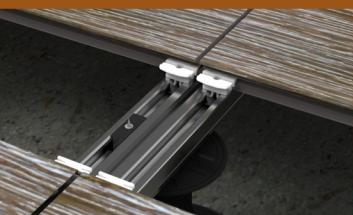
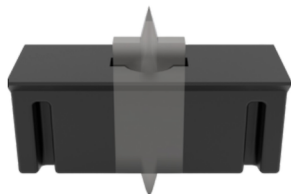


The **Magnet S clip** is the cornerstone of the system. The key is strength with the right flexibility. Fully made of POM, a high-performance engineering thermoplastic with excellent dimensional stability even in extreme conditions. Strong yet flexible, with a low friction coefficient and, high abrasion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

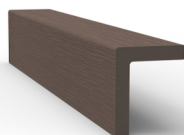
### Blocking:

Leave a 4 mm separation between boards for optimum drainage.

The double blocker ensures an excellent performance and prevents longitudinal and lateral movements.



### L profile / Edge Board:



### MAGNET TOOL

Opens boards in **2 seconds**



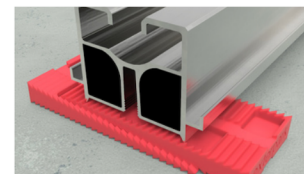
### HEIGHT-ADJUSTABLE PEDESTALS

From 5 cm up to more than 1 meter



### WEDGES

From 5 mm and up to 50 mm



# MAGNET



## EXTREME DURABILITY

The Magnet S 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  $1.410\text{--}1.420\text{ g/cm}^3$   
Melting point of  $178\text{ }^{\circ}\text{C}$



Durability Test (Test report no. 221.I.2103.271.EN.01): durability under compression test overpass 2'000,000 million cycles with no visible damage on the structure or the mechanical locking (*Magnet system*)

## 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
<b>Thermal Properties</b>		
Melting temperature	178 $^{\circ}\text{C}$	ISO11357-1/-3
Temp. of deflection under load		
1.8 MPa	78 $^{\circ}\text{C}$	ISO75-1/-2
0.45 MPa	146 $^{\circ}\text{C}$	ISO75-1/-2
Vicat 50 $^{\circ}\text{C}/\text{h}$ , 50N	140 $^{\circ}\text{C}$	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

the material meets both UV and water immersion requirements  
UL 746C