PP LEVEL DUO MAXI – JOIST

Supports for outdoor raised floors



DESCRIPTION

PP level DUO MAXI - JOIST is a system for laying outdoor raised floors with joists.
This system is used for laying self-supporting ceramic, natural stone or concrete slabs of various sizes and is the ideal solution for terraces, pool side floor, walkways, etc.

FEATURES AND BENEFITS

- Slope compensation up to 5%
- Converting from a self-levelling head to a fixed head using the Fixed Head Ring
- Better load distribution
- Best for installing large dimension slabs
- Reversible joist for decking floors
- Floor stability (recommended for floor heights greater than 40 cm)

COMPOSITION

PP level DUO MAXI – JOIST consists of:

- base with screw and anti-unscrewing block (S/28/29B, M/38/57B, L/59/61B, XL/87/150B, XXL/148/211B);
- head for joist (PPLM/TA);
- aluminium joist measuring 60,3x24 mm – L 240 cm (PPL/T1);
- noise-proof gasket for joists (PPL/GM50 or PPL/GM200);
- connection joint for joists (PPL/GR1);
- 4 mm spacer for joist (PPL/D4).

The height of the supports can be increased further using the P1/10 and P1/80TE extensions.
Finally, numerous installation accessories are available for lifting slabs, vertical perimeter closures and wall fixing of joists.



MATERIALS

PP (base, connection joint, spacer)
Black polypropylene, resistant to both acidic and basic solutions and weathering.
Operating temperature -40°C +75°C.
Mechanical properties remain unchanged over time.

PP/TPE (head)
Black polypropylene with anti-shock thermoplastic elastomer, resistant to abrasion and impact.

Natural aluminium (joist)
Alloy of Al-Mg-Si thermically treated in conditions T6 (6060 T6).
The profiles are produced by extrusion and guarantee a fair resistance to athmospheric and chemical agents.

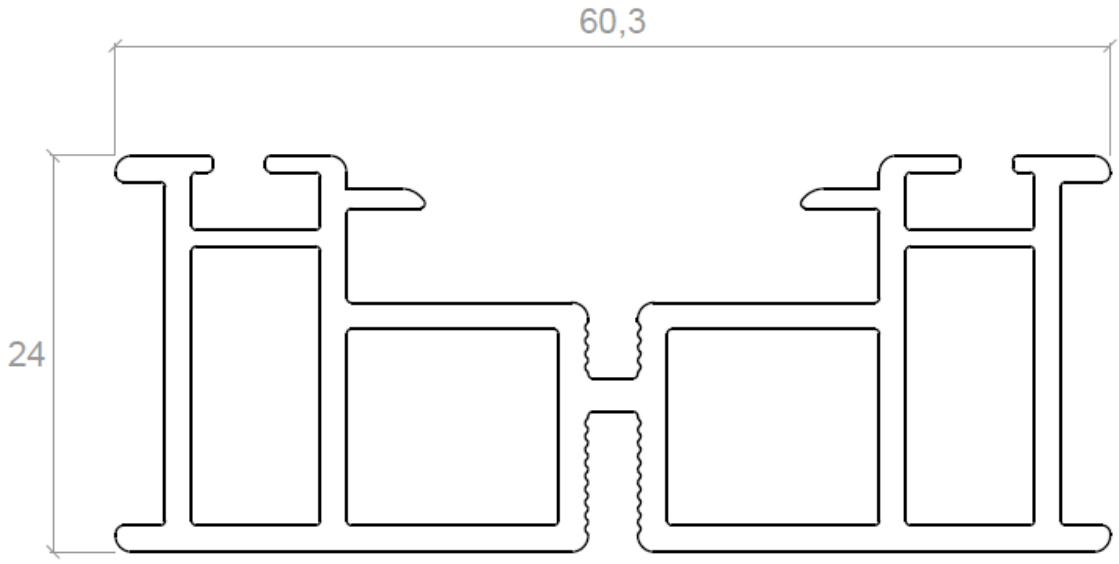
Plasticized PVC (gasket)
Vinyl compound of plasticized PVC unleaded, self-extinguishing.
Mixture with Ca-Zn salts.

ENVIRONMENTAL IMPACT AND PRODUCT END-OF-LIFE

Non-hazardous waste is recyclable after disassembling of accessories and bi-component heads.
The base with screw, extensions, connection joint and spacer are made of polypropylene (PP5).
The heads are made of polypropylene (PP5) + thermoplastic elastomer (TPE).
The joists are made of aluminium (ALU41).
All of the above components are 100% recyclable.

DIMENSIONS

Base diameter	205 mm
Head dimension	130x130 mm
Support surface	330 cm^2
Joist dimension	60,3x24 mm – L 240 cm
Spacer tab thickness	4 mm
Spacer tab height	12 mm



PACKAGING AND STORAGE

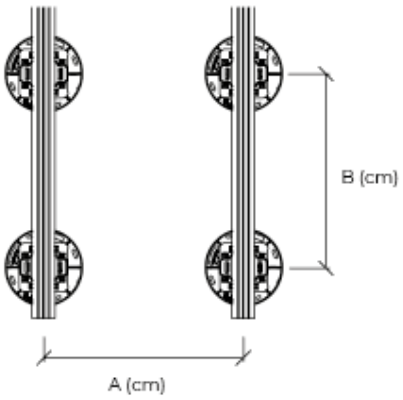
	PPLM/TA	PPL/T1	PPL/GM50 - 200	PPL/GR1	PPL/D4
PIECES PER BOX	48	8	1	250	500
BOXES PER PALLET	80	-	-	-	-
BOX SIZE (cm)	40x30x18	240x12x10	Ø25x6 - Ø25x19	26x39x13	38x27x20
BOX WEIGHT (kg)	4,93	20,06	1,60 - 5,57	1,73	3,50
PALLET SIZE (cm)	80x120x195	-	-	-	-

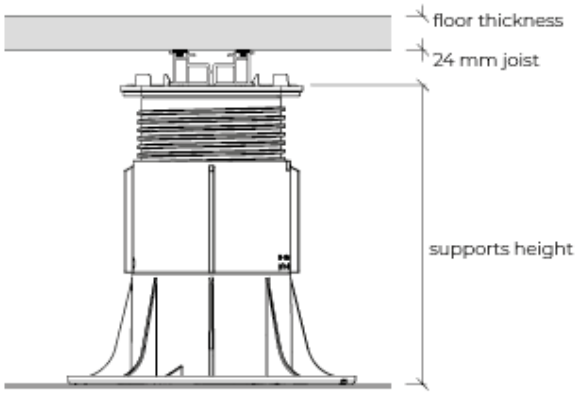
INSTALLATION

Installation involves dry positioning of the support on an existing surface such as a concrete slab, waterproof membrane*, rigid insulating panel**, ceramic or stone floor, etc.
The installation surface must be smooth, clean, flat, compact, stable and mechanically resistant and it must maintain these characteristics over time.
Assemble the joists (PPL/T1) with the connection joints (PPL/GR1), the noise-proof gasket (PPL/GM50 or PPL/GM200) and the 4 mm spacers (PPL/D4).
Connect the joists to the support heads (PPLM/TA). The support heads allow the connection of a second row of joists, perpendicular to the main row.
Adjust the supports by turning the base (please note that the adjustment key cannot be used).
The distance between the supports along the joist and the distance between the joists are derived from the dimensions of the ceramic tiles (or from submultiples of the dimensions, in any case distances less than 60 cm).
To make the system more stable, connect the joists together ensuring that the joint is aligned with the head of the support.
Place the ceramic tiles on the joists, inserting spacers between them.
No adhesives or other types of fixings are required.
We recommend placing a Profilpas rubber mat (PPL/S or PPL/DLB) between the installation surface and the support.
A wall fixing bracket for the joist is available if necessary (PCC/L).
Specialised labour is required to install the product.

* Make sure that the membrane used does not obstruct the water drainage holes.
** Check the mechanical characteristics of the rigid insulating panel with the manufacturer.

COMSUMPTION PER SQUARE METRE





SUPPORTS PER SQM

AxB (cm)	40	45	50	60
40	6,5			4,2
45		4,9		
50			4	
60	4,2			2,8

JOIST

A (cm)	m/mq
40	2,75
45	2,5
50	2,25
60	2

SPACER PPL/D4 PER SQM

TILE SIZE (cm)	30	40	45	50	60	80	90	100	120
30					5,6				2,8
40					4,2	3,2			2,1
45			4,9				2,5		
50				4					
60	5,6	4,2			2,8		1,9		1,5
80		3,2				1,6			
90			2,5		1,9		1,3		
100								1	
120	2,8	2,1			1,5				0,8

The indications in these tables are indicative and vary according to the size and geometry of the area to be calculated.

CARE AND MAINTENANCE

PP
It requires no special maintenance.

PP/TPE
It requires no special maintenance.

Aluminium
It requires no special maintenance.

FIRE PREVENTION MEASURES

In the event of fire, use chemical fire extinguishers, dry sand or solid extinguishing agents.

SUPPORTS FOR OUTDOOR RAISED FLOORS

PP LEVEL DUO MAXI - BASE + SCREW

ART.		Cod.	Pack	Pallet
S/28/39B	base + screw adjustable from h. 28 to 39 mm ***euro/pc (euro/pack)***	19250	24 pcs	1152 pcs
M/38/57B	base + screw adjustable from h. 38 to 57 mm ***euro/pc (euro/pack)***	19251	24 pcs	1152 pcs
L/56/91B	base + screw adjustable from h. 56 to 91 mm ***euro/pc (euro/pack)***	19252	24 pcs	672 pcs
XL/87/150B	base + screw adjustable from h. 87 to 150 mm ***euro/pc (euro/pack)***	19253	24 pcs	480 pcs
XXL/148/211B	base + screw adjustable from h. 148 to 211 mm ***euro/pc (euro/pack)***	19278	12 pcs	240 pcs

no partial packaging


S/28/39B M/38/57B L/56/91B XL/87/150B XXL/148/211B

EXTENSIONS FOR PP LEVEL DUO MAXI

ART.		Cod.	Pack	Pallet
P1/10	extension h. 10 mm	19369	15 pcs	1800 pcs
	euro/pc (euro/pack)			
P1/80TE	extension h. 80 mm	19254	24 pcs	960 pcs
	euro/pc (euro/pack)			

no partial packaging

XL/87/150B+P1/80TE	=	167 / 254 mm
XXL/148/211B+P1/80TE	=	228 / 315 mm
XXL/148/211B+(2xP1/80TE)	=	308 / 419 mm
XXL/148/211B+(3xP1/80TE)	=	388 / 523 mm
XXL/148/211B+(4xP1/80TE)	=	468 / 627 mm
XXL/148/211B+(5xP1/80TE)	=	548 / 732 mm
XXL/148/211B+(6xP1/80TE)	=	628 / 836 mm
XXL/148/211B+(7xP1/80TE)	=	708 / 940 mm
XXL/148/211B+(8xP1/80TE)	=	788 / 1044 mm
XXL/148/211B+(9xP1/80TE)	=	868 / 1148 mm
XXL/148/211B+(10xP1/80TE)	=	948 / 1253 mm


P1/10

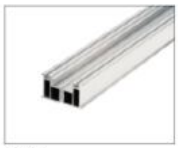

P1/80TE

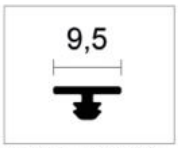
PP LEVEL DUO MAXI - JOIST

ART.		Cod.	Pack	Pallet
PPLM/TA	head for aluminium joist ***euro/pc (euro/ pack)***	19259	48 pcs	3840 pcs
PPL/T1	natural aluminium joist 60,3x24 mm - L 240 cm ***euro/m (euro/pack)***	19260	8 pcs	
PPL/D4	4-mm spacer for joist ***euro/pc (euro/pack)***	19398	500 pcs	
PPL/GM50	noise-proof gasket for joist - 50 meters roll ***euro/m (euro/pack)***	19263	1 pc	
PPL/GM200	noise-proof gasket for joist - 200 meters roll ***euro/m (euro/pack)***	19264	1 pc	
PPL/GR1	connection joint for joist ***euro/pc (euro/pack)***	19265	250 pcs	
PCC/L	wall fixing bracket for PPL/T1 joist ***euro/pc (euro/pack)***	19367	20 pcs	

no partial packaging


PPLM/TA


PPL/T1



PPL/GM50 - PPL/GM200


PPL/GR1


PPL/D4


PCC/L

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website profilpas.com

PRODUCT FOR PROFESSIONAL USE

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PRESCRIPTION

Supply and installation of adjustable polypropylene supports with self-levelling heads for outdoor raised floors with joists (type PP Level DUO MAXI - JOIST by Profilpas S.p.A.) for ceramic tiles (...) cm.
The supports will consist of a 205 mm diameter base with holes for water drainage and equipped with an adjustable screw (...) mm with a safety lock. The self-levelling head must be able to compensate for slopes of up to 5% and be equipped with an interlocking housing for the aluminium joist and related accessories (noise-proof gasket, connection joint and 4 mm spacer).
The installation must be carried out with care to ensure that the laying surface is smooth, clean, flat, compact, stable and mechanically resistant over time.
The base will be provided with rounded edges to prevent damage to any underlying membranes as well as pre-cut lines to facilitate on-site cutting of the supports. In addition, a removable accessory must be provided to convert the support from self-levelling to fixed once applied to the screw before inserting the head. The head must be covered with heat-sealed rubber providing noise reduction and anti-slip properties.

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