

ALU TERRACE

ALUMINIUM PROFILE FOR PATIOS

TWO VERSIONS

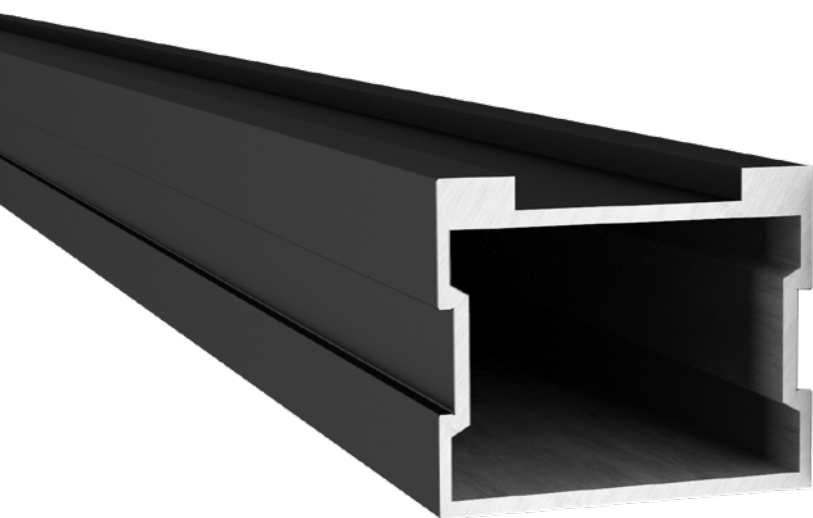
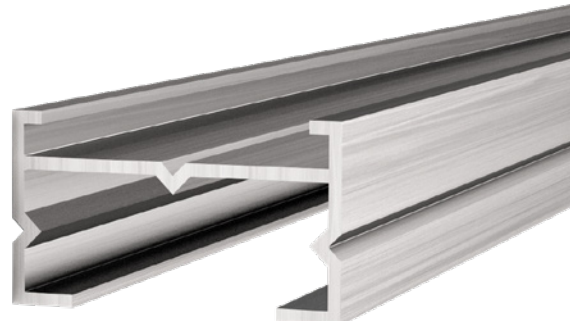
ALUTERRA30 version for standard loads. ALUTERRA50 version, in black, for very high loads; can be used on both sides.

SUPPORT EVERY 1,10 m

ALUTERRA50 designed with a very high inertia so that the SUPPORTS can be positioned every 1,10 m (along the profile midline), even with high loads (4,0 kN/m²).

DURABILITY

The substructure made of aluminium profiles guarantees excellent patio durability. The drainage channel allows water to run off and generates effective micro-ventilation.



CHARACTERISTICS

FOCUS	excellent durability and strength
SECTIONS	53 x 30 mm and 63 x 50 mm
THICKNESS	1,8 mm 2,2 mm

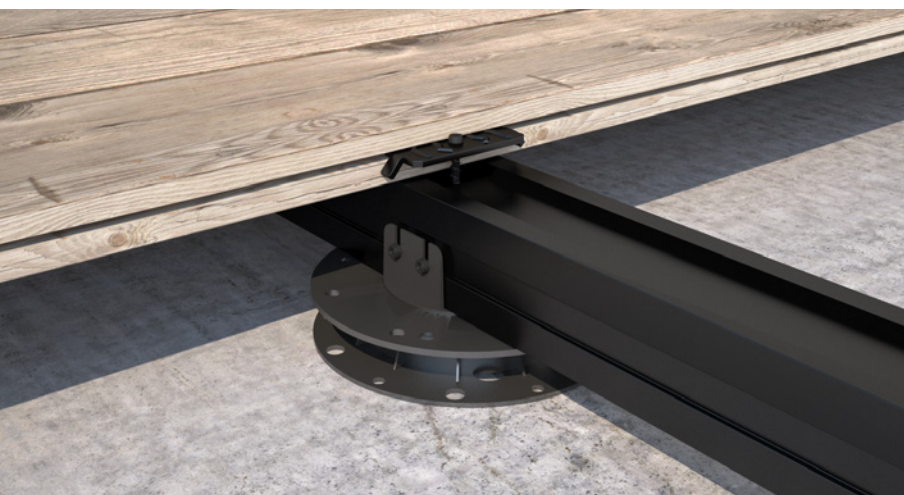


MATERIAL

Versions in aluminium and in anodized aluminium (class 15) in graphite black.

FIELDS OF USE

Patio substructure. Outdoor use. Suitable for service classes 1-2-3.



DISTANCE 1,10 m

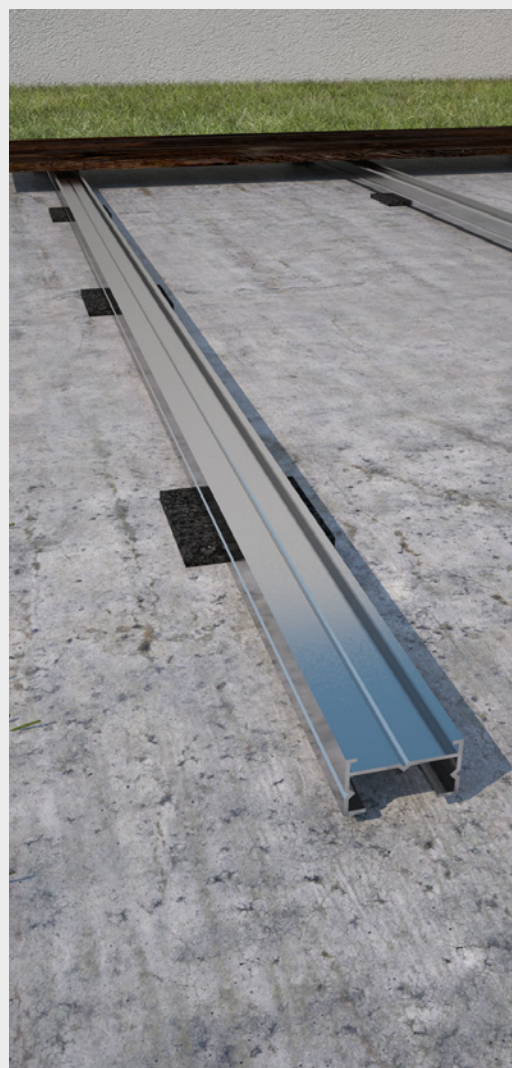
With an inter-profile distance of 80 cm (load: 4,0 kN/m²), the SUPPORTS can be spaced 1,10 m apart and placed along the ALUTER-RACE50 midline.

COMPLETE SYSTEM

Ideal for use in combination with ALU TERRACE, fixed laterally with KKA screws. System with excellent durability.

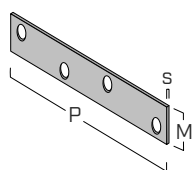


Stabilization of ALUTERRA50 with stainless steel plates and KKA screws.

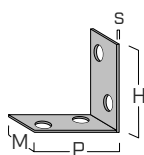


Aluminium substructure made with ALUTERRA30 and resting on GRANULO PAD

ACCESSORY CODES AND DIMENSIONS

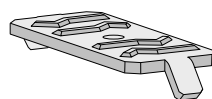


LBVI15100

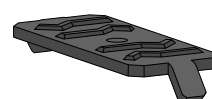


WHOI1540

CODE	material	s [mm]	M [mm]	P [mm]	H [mm]	pcs
LBVI15100	A2 AISI304	1,75	15	100	--	200
WHOI1540	A2 AISI304	1,75	15	40	40	200



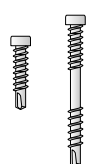
FLIP



FLAT

CODE	material	pcs
FLAT	black alluminum	200
FLIP	zinc-plated steel	200

KKA AISI410



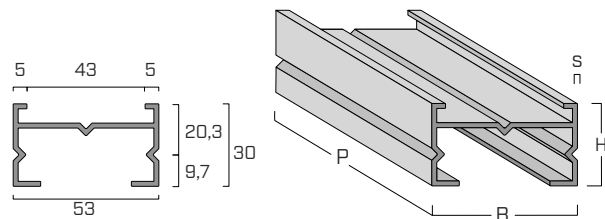
d ₁ [mm]	CODE	L [mm]	pcs
4 TX 20	KKA420	20	200
5 TX 25	KKA540	40	100
	KKA550	50	100

KKA COLOR

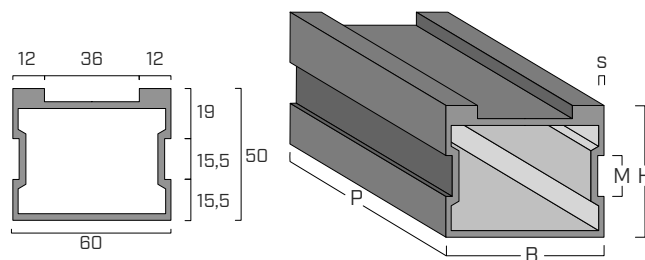


d ₁ [mm]	CODE	L [mm]	pcs
	KKAN420	20	200
4 TX 20	KKAN430	30	200
	KKAN440	40	200
5 TX 25	KKAN540	40	200

GEOMETRY



ALU TERRACE 30



ALU TERRACE 50

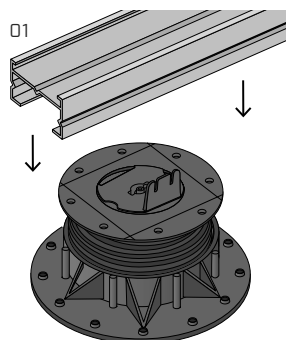
CODES AND DIMENSIONS

CODE	s	B	P	H	pcs
	[mm]	[mm]	[mm]	[mm]	
ALUTERRA30	1,8	53	2200	30	1

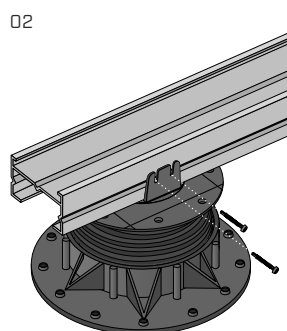
CODE	s	B	P	H	pcs
	[mm]	[mm]	[mm]	[mm]	
ALUTERRA50	2,5	63	2200	50	1

NOTES: upon request, P= 3000 mm version is available.

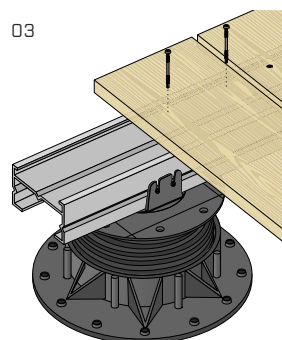
EXAMPLE OF FASTENING WITH SCREWS AND ALUTERRA30



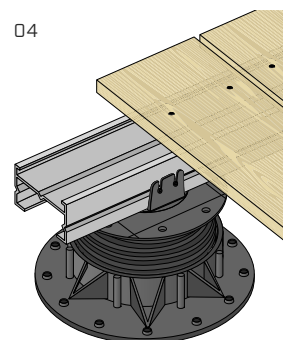
Place the ALU TERRACE on the SUP-S fit with head SUPSLHEAD1.



Fix the ALU TERRACE with 4,0 mm diameter KKAN.

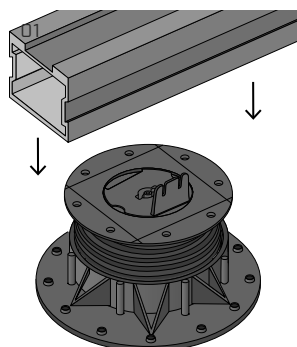


Fix the wooden or WPC boards directly on the ALU TERRACE with 5,0 mm diameter KKA screws.

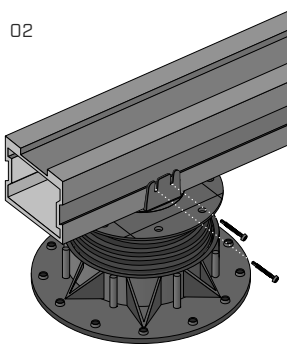


Repeat the operations for the remaining boards.

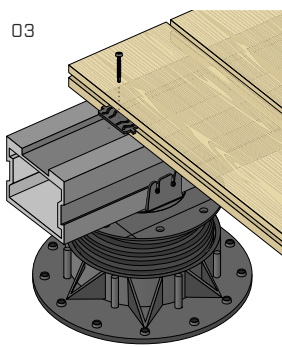
EXAMPLE OF FASTENING WITH CLIP AND ALUTERRA50



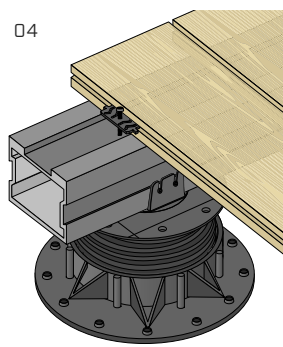
Place the ALU TERRACE on the SUP-S fit with head SUPSLHEAD1.



Fix the ALU TERRACE with 4,0 mm diameter KKAN.

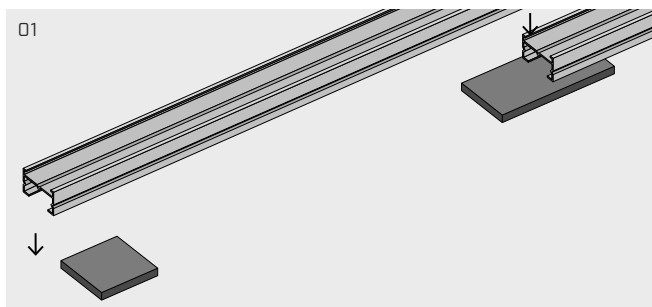


Fix the boards using FLAT concealed clips and 4,0 mm diameter KKAN screws.

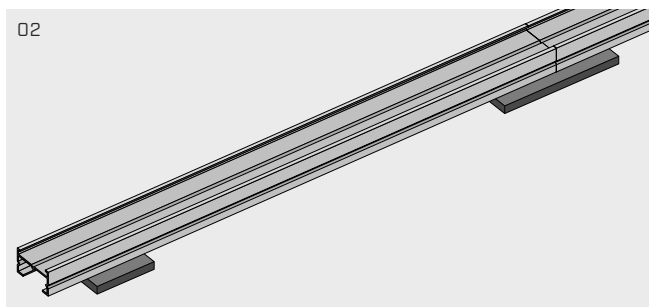


Repeat the operations for the remaining boards.

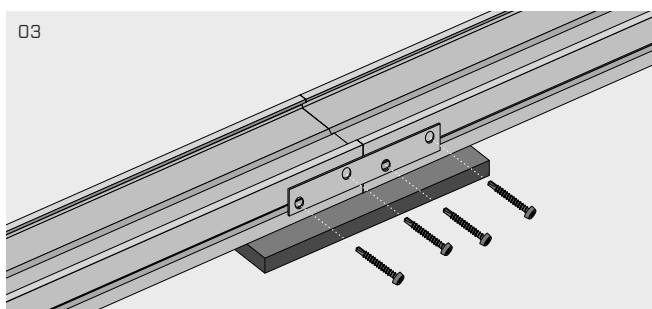
■ EXAMPLE PLACEMENT ON GRANULO PAD



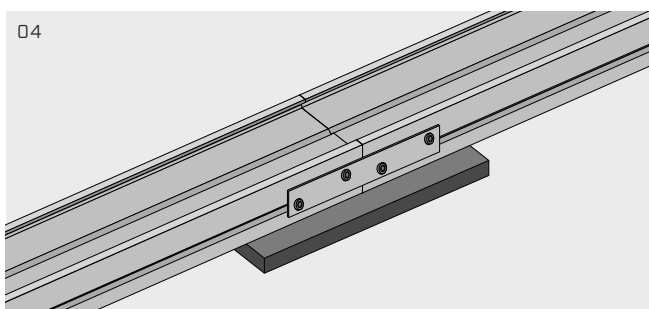
Several ALUTERRA30 units can be connected lengthwise using stainless steel plates. Connection is optional.



Line up the ends of 2 aluminium profiles.

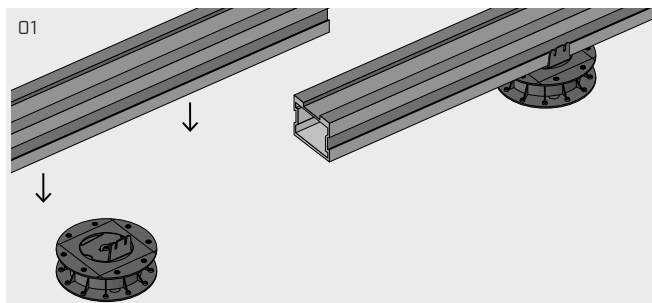


Place the LBVI15100 stainless steel plate on the aluminium profiles and fix with 4,0 x 20 KKA screws.

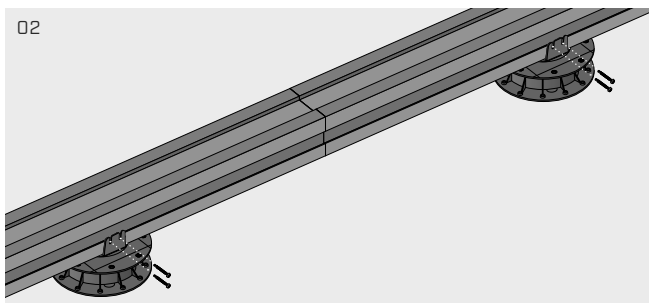


Do this on both sides to maximize stability.

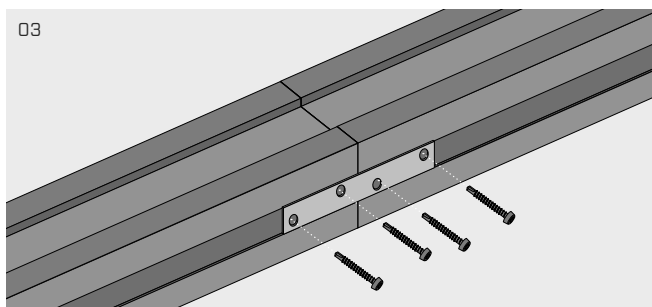
■ EXAMPLE PLACEMENT ON SUPPORT



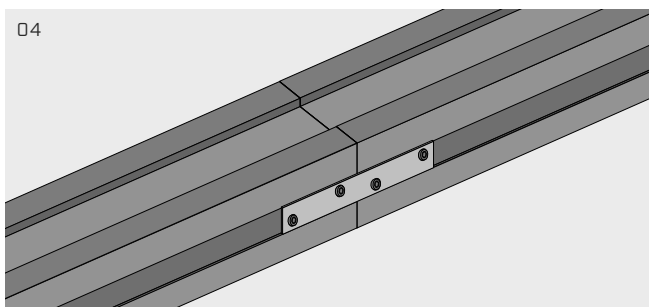
Several ALUTERRA50 units can be connected lengthwise using stainless steel plates. Connection is optional if the joint coincides with placement on the SUPPORT.



Connect the aluminium profiles with KKAN screws (diameter: 4,0 mm) and place 2 aluminium profiles end to end.



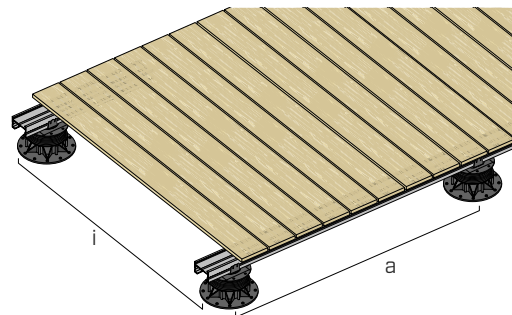
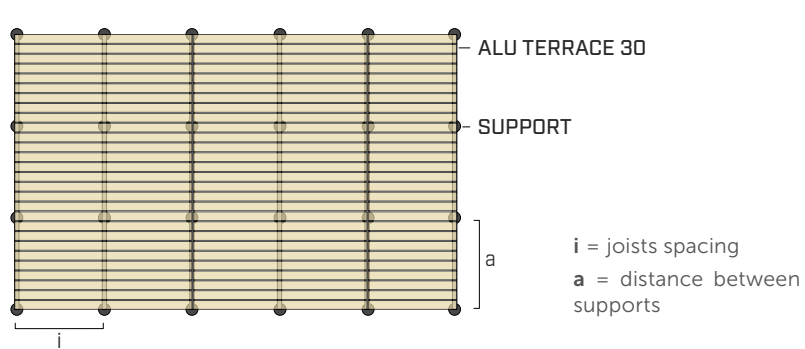
Place the LBVI15100 stainless steel plate on the lateral holes in the aluminium profiles and fix with 4,0 x 20 KKA screws or KKAN 4,0 mm diameter.



Do this on both sides to maximize stability.

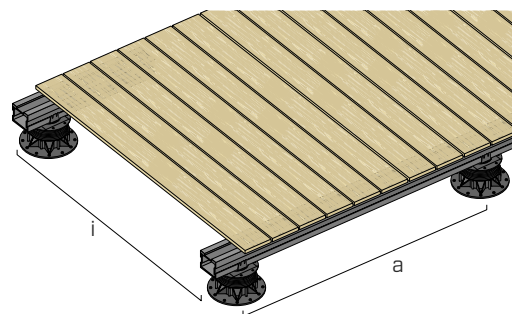
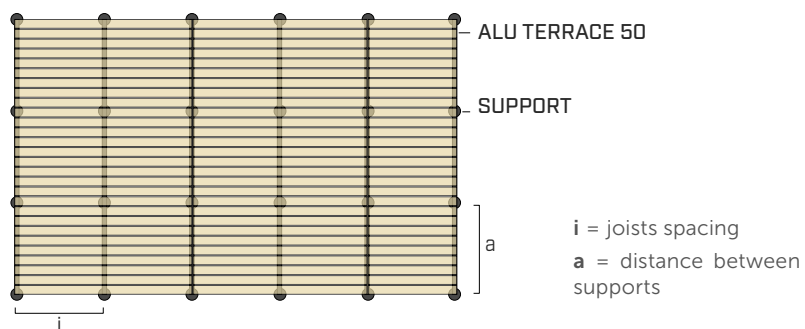
■ MAXIMUM DISTANCE BETWEEN SUPPORTS (a)

ALU TERRACE 30



OPERATING LOAD [kN/m ²]	i [m]								
	0,4	0,45	0,5	0,55	0,6	0,7	0,8	0,9	1,0
2,0	0,77	0,74	0,71	0,69	0,67	0,64	0,61	0,59	0,57
3,0	0,67	0,65	0,62	0,60	0,59	0,56	0,53	0,51	0,49
4,0	0,61	0,59	0,57	0,55	0,53	0,51	0,48	0,47	0,45
5,0	0,57	0,54	0,53	0,51	0,49	0,47	0,45	0,43	0,42

ALU TERRACE 50



OPERATING LOAD [kN/m ²]	i [m]								
	0,4	0,45	0,5	0,55	0,6	0,7	0,8	0,9	1,0
2,0	1,70	1,64	1,58	1,53	1,49	1,41	1,35	1,30	1,25
3,0	1,49	1,43	1,38	1,34	1,30	1,23	1,18	1,14	1,10
4,0	1,35	1,30	1,25	1,22	1,18	1,12	1,07	1,03	1,00
5,0	1,25	1,21	1,16	1,13	1,10	1,04	1,00	0,96	0,92

NOTES:

- Example with deformation $L/300$;
- Useful load according to EN 1991-1-1:
 - Category A areas = $2,0 \div 4,0$ kN /m²;
 - Areas susceptible to category C2 crowding = $3,0 \div 4,0$ kN/m²;
 - Areas susceptible to category C3 crowding = $3,0 \div 5,0$ kN/m²;

The calculation was performed with a static diagram on a simple support span and considering a uniformly distributed load.