

ALU TERRACE

ALUMINIUM PROFILE FOR PATIOS

TWO VERSIONS

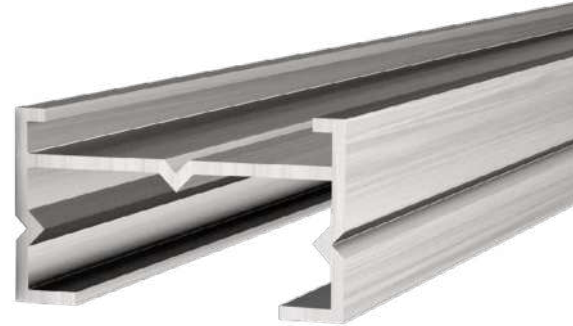
ALUTERRA30 version for standard loads. ALUTERRA50 version, in black, for very high loads; can be used on both sides.

SUPPORT EVERY 1.10 m

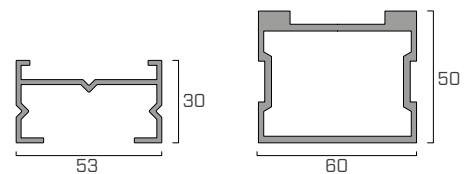
ALUTERRA50 designed with a very high inertia so that the SUPPORTS can be positioned every 1,10 m (along the profile midline), even with high loads (4,0 kN/m²).

DURABILITY

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



SECTIONS [mm]



SERVICE CLASS



MATERIAL

alu aluminium

alu class 15 anodised aluminium in graphite black



FIELDS OF USE

Patio substructure. Outdoor use.



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 ALUTERRACE50 midline.

COMPLETE SYSTEM

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

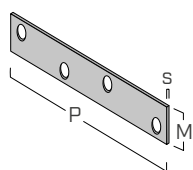


Stabilization of ALUTERRA50 with stainless steel plates and KKA screws.

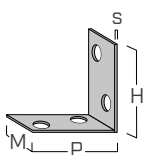


Aluminium substructure made with ALUTERRA30 and resting on GRANULO PAD

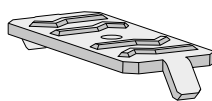
ACCESSORY CODES AND DIMENSIONS



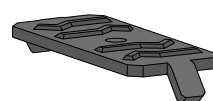
LBVI15100



WHOI1540



FLIP

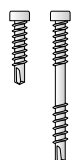


FLAT

CODE	material	s [mm]	M [mm]	P [mm]	H [mm]	pcs
LBVI15100	A2 AISI304	1,75	15	100	-	50
WHOI1540	A2 AISI304	1,75	15	40	40	50

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

KKA AISI410



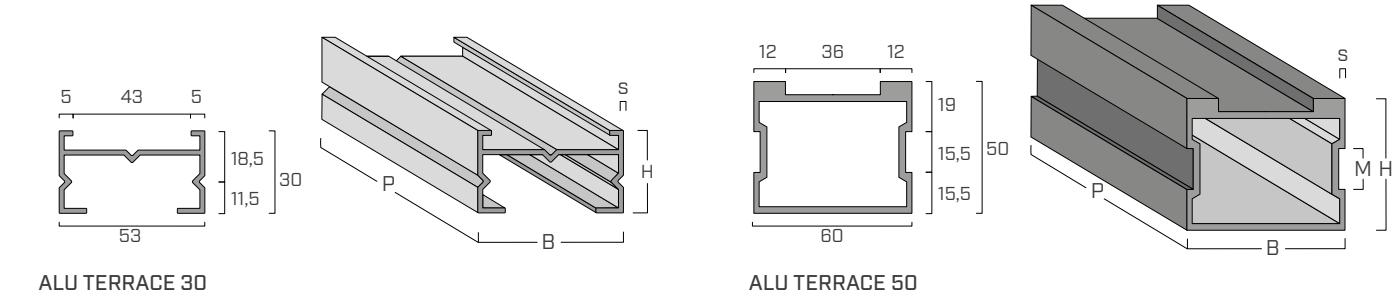
d ₁ [mm]	CODE	L [mm]	pcs
4 TX 20	KKA420	20	200
5 TX 25	KKA540	40	100
	KKA550	50	100

KKA COLOR



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

GEOMETRY



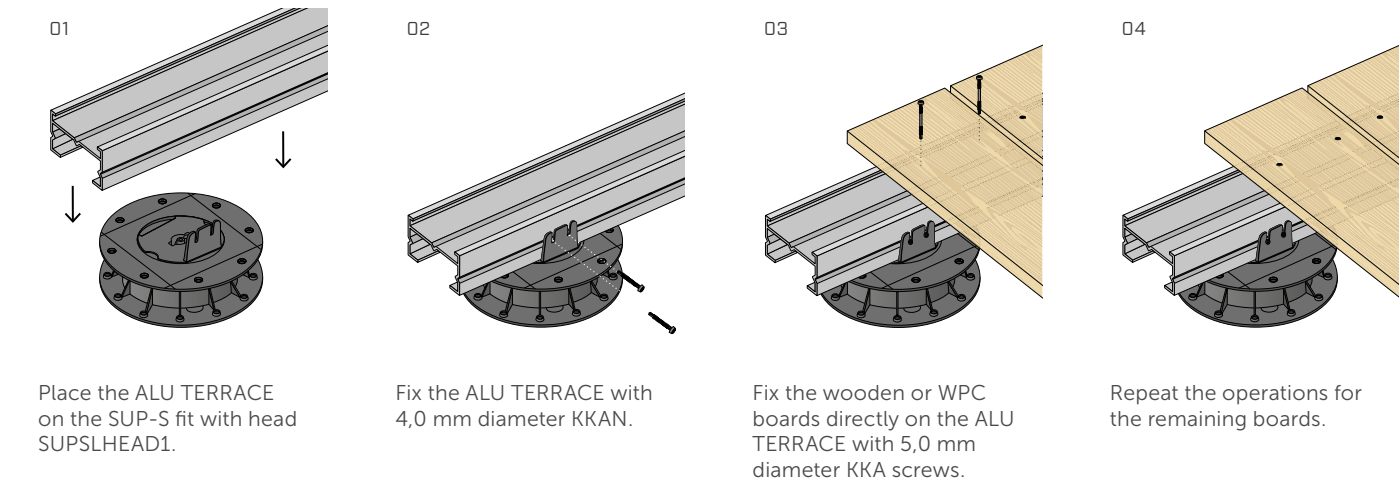
CODES AND DIMENSIONS

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

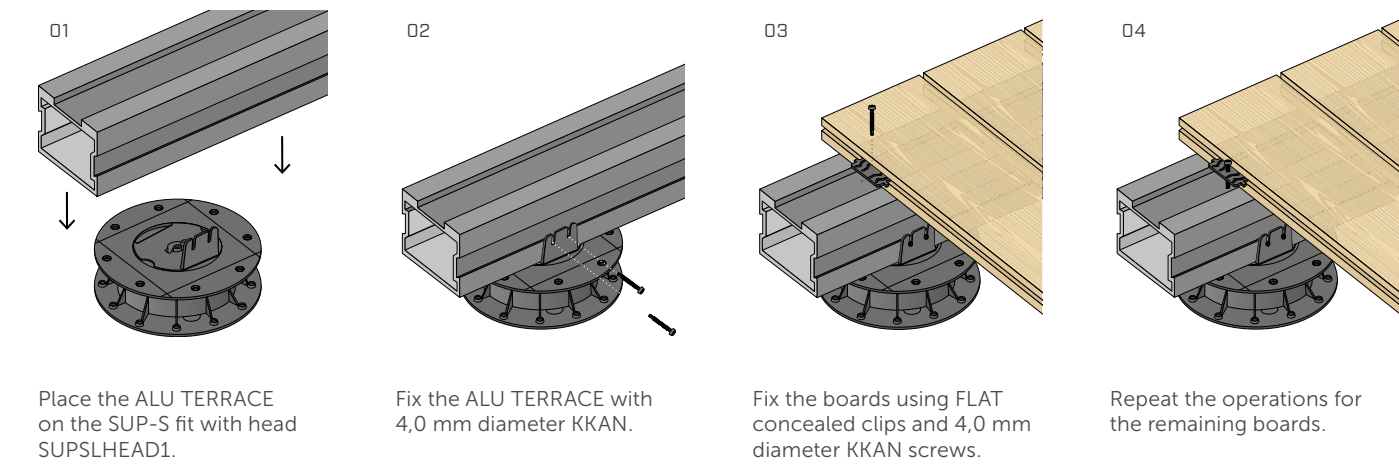
NOTES: upon request, P= 3000 mm version is available.

CODE	s	B	P	H	pcs
	[mm]	[mm]	[mm]	[mm]	
ALUTERRA50	2,5	60	2200	50	1

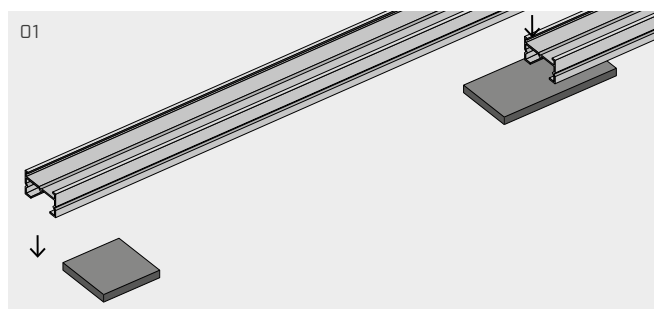
EXAMPLE OF FASTENING WITH SCREWS AND ALUTERRA30



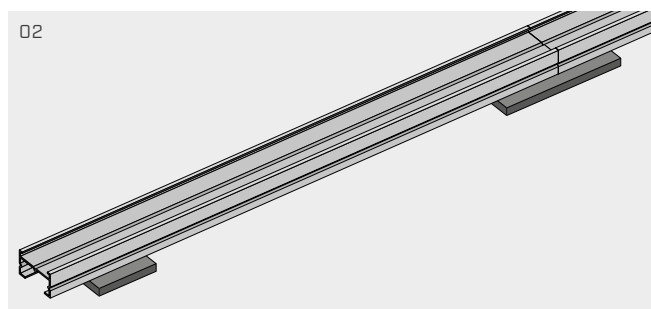
EXAMPLE OF FASTENING WITH CLIP AND ALUTERRA50



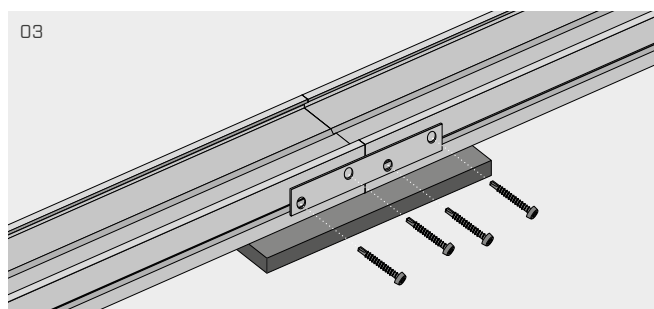
■ EXAMPLE PLACEMENT ON GRANULO PAD



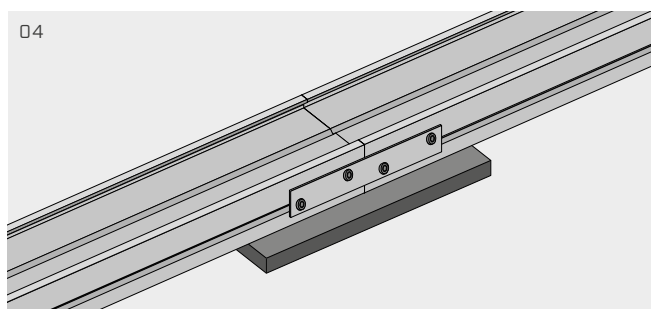
Several ALUTERRA30 units can be connected lengthwise using stainless steel plates. Connection is optional.



Line up the ends of 2 aluminium profiles.

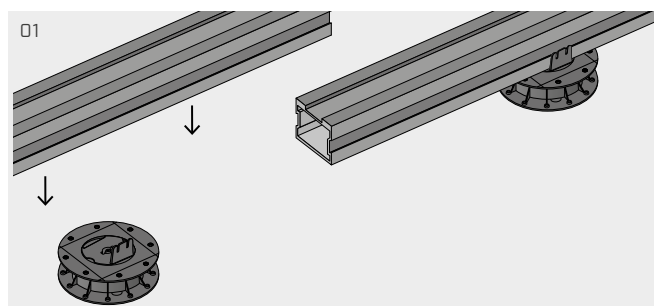


Place the LBVI15100 stainless steel plate on the aluminium profiles and fix with 4,0 x 20 KKA screws.

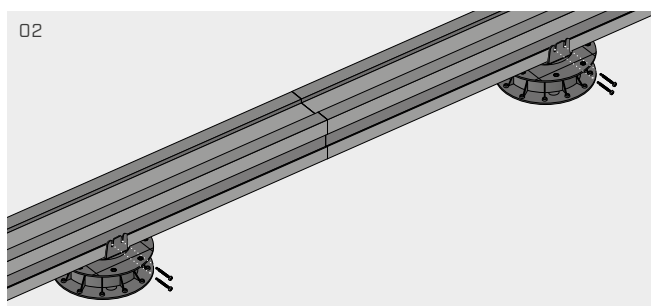


Do this on both sides to maximize stability.

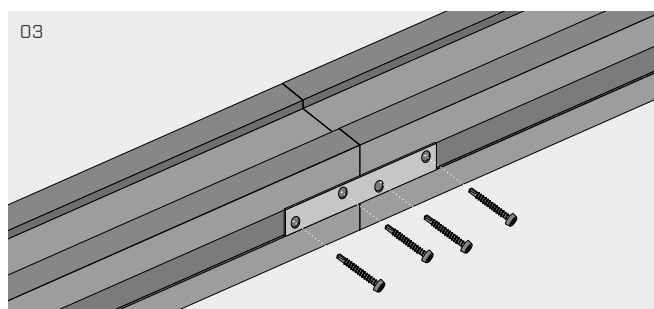
■ EXAMPLE PLACEMENT ON SUPPORT



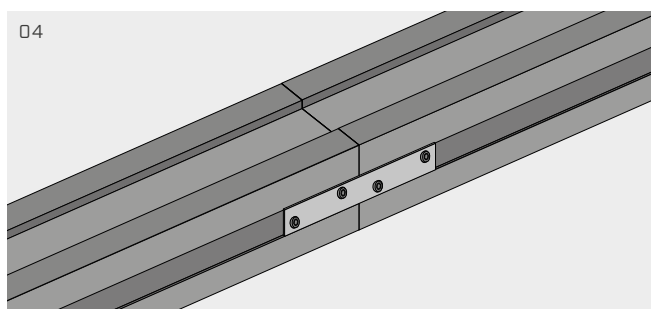
Several ALUTERRA50 units can be connected lengthwise using stainless steel plates. Connection is optional if the joint coincides with placement on the SUPPORT.



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



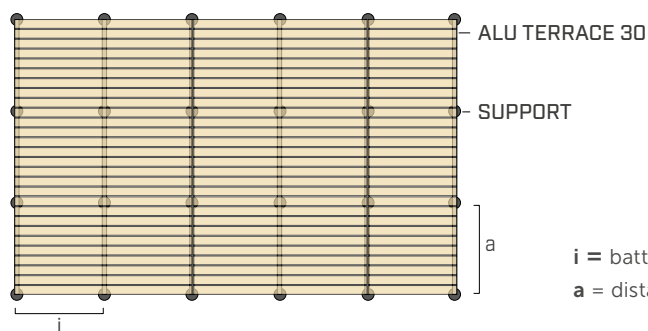
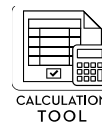
Place the LBVI15100 stainless steel plate on the lateral holes in the aluminium profiles and fix with 4,0 x 20 KKA screws or KKAN 4,0 mm diameter.



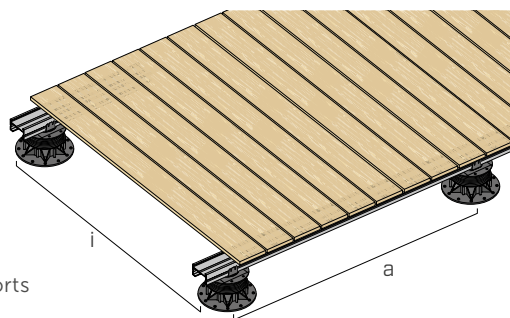
Do this on both sides to maximize stability.

■ MAXIMUM DISTANCE BETWEEN SUPPORTS (a)

ALU TERRACE 30

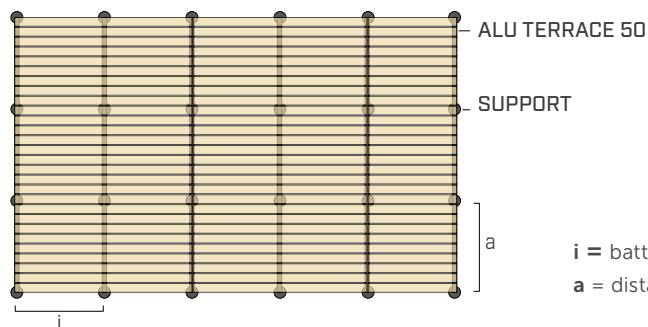


i = battens spacing
a = distance between supports

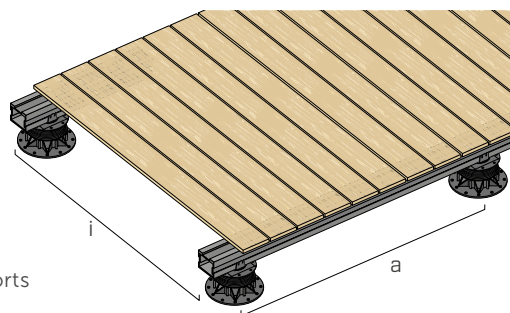


OPERATING LOAD [kN/m ²]	a [m]								
	i=0,4 m	i=0,45 m	i=0,5 m	i=0,55 m	i=0,6 m	i=0,7 m	i=0,8 m	i=0,9 m	i=1,0 m
2,0	0,77	0,74	0,71	0,69	0,67	0,64	0,61	0,59	0,57
3,0	0,67	0,65	0,62	0,60	0,59	0,56	0,53	0,51	0,49
4,0	0,61	0,59	0,57	0,55	0,53	0,51	0,48	0,47	0,45
5,0	0,57	0,54	0,53	0,51	0,49	0,47	0,45	0,43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

ALU TERRACE 50



i = battens spacing
a = distance between supports



OPERATING LOAD [kN/m ²]	a [m]								
	i=0,4 m	i=0,45 m	i=0,5 m	i=0,55 m	i=0,6 m	i=0,7 m	i=0,8 m	i=0,9 m	i=1,0 m
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 limit deformation L/300;
- Useful load according to EN 1991-1-1:
 - Category A areas = 2,0 ÷ 4,0 kN /m²;
 - Areas susceptible to category C2 crowding = 3,0 ÷ 4,0 kN/m²;
 - Areas susceptible to category C3 crowding = 3,0 ÷ 5,0 kN/m²;

The calculation was performed considering, for safety purposes, the static diagram of a single-span beam in simple support loaded with a uniformly distributed load.