

**OFFICIAL 2025
TECHNICAL
SPECIFICATIONS**



MODEL ALBA

WWW.PADELALBA.COM

COURT MODEL ALBA



CHARACTERISTICS

- Court designed for players of all levels.
- Very robust structure, with an unbeatable aesthetic finish.
- International Padel Federation approved open entrances.
- International Padel Federation approved glass design.
- Electro-welded mesh flush with the glass.
- Structure technically designed and approved by engineer.
- 140 metallic anchors bolts, certified and homologate by the EU.
- Manufactured under the rules of the International Padel Federation.
- Availability of lacquering of the metal frame in various colours.
- 10 mm thick CE-marked glass.
- Many different turf options.



METAL STRUCTURE

CORNERS:

- 4 double pillars of 50x30x1.5 making with plates of 260x160x10mm.
- Personalisation of the corner with the name of the club.

LIGHTING POSTS

- 4 tubes of 3 meters high, consisting of 100X60X2 mm tube with trim and tube up to 6 meters.
- Different styles; 'C', '7', 'V' and straight.



LATERAL MESH AND PILLARS:

- 8 mesh of 3000x2000 mm reinforced with 2 tubes of 30x30 mm to avoid deformity of the mesh, according to FEP regulations.
- 14 electrowelded mesh 2000x1000 mm framed with tube of 30x30x2 mm.
- 4 "L" shaped electrowelded mesh for access hole according to FEP regulations.
- 8 pillars of 100x60x2 of 3000 mm with anchor plates and bevel for fastening of meshes.
- 12 pillars of 100x60x2 of 3000 mm with anchor plates and bevel for hold the glass.
- 4 posts of 100x60x2 mm of 3000 mm with anchor plates of 330x230x10 mm

POST AND NET:

- With hid with hidden tensioning system
- polypropylene competition netting customisable.

STAINLESS STEEL SCREWS A4

20	Screw=DIN 933 A4m 10x35
30	Screw=DIN 933 A4m 10x80
114	Screw=DIN7991 A4m 10x35
114	Nylon Washers M10 BLACK
350	Washers = DIN 125 A4 M10
250	Grower Washers =DIN 127 A4 M10
250	Safety nuts =DIN 1587 A4 M10
1000	Hexagonal Selfdrilling screws = DIN 75054 K +P 16 ø 6,3 x25 ZINCADO
150	Concrete screwbolts = M12x110 ø 16

GLASS

We use tempered glass with a thickness of 10mm for the back and sides of the court. All the glass are 1995 x 2995metres. To guarantee their durability and resistance, they are installed on a 4mm neoprene layer that reduces vibrations and minimises the risk of breakage.

The manufacturing process of our tempered glass complies rigorously with the UNE EN 12150-1 standard, which means that their quality and safety are of the highest quality.

With such certified quality glass, maximum performance is guaranteed, offering a safe gaming experience.

TECHNICAL VALUES Calculation according to European standards EN 410:2011

and EN 673:2011 Glazing inclination respect to horizontal position 90°

Transmittance %			Reflectance %		Solar direct absorbance (α _e %)	U _g declared W/(m ² K)	Shading coefficient (sc)	Solar factor (g %)	
Light (τ _v)	UV (T _{UV})	Solar (τ _e)	Light	Solar					
89	61	79	Out. (ρ _{ve})	Out. (ρ _{se})	13	5,6	0,95	83	
Mechanical properties:						Safety Class (EN 12600):		1(C)1	
Acoustic properties (Estimated Values):						R _w (dB):	34	C; C _{tr} (dB)	-1; -2

We use Tempered Glass for these reasons:

- **Increased Visibility and Transparency** Tempered Glass is a transparent material, which allows better visibility for spectators and players. Compared to opaque materials such as concrete walls, tempered glass offers a clear view of the game from different angles.
- **Increased Safety** Tempered glass is strong and durable, but it is also flexible. In case of strong impacts (such as balls or players), it is less likely to break. In addition, its impact resistance makes it a safer option compared to traditional glass.
- **Durability and Weather Resistance** Tempered glass is resistant to UV rays, moisture, and temperature changes, making it ideal for outdoor use, such as padel courts. It is also less prone to cracking or breaking over time.



ILLUMINATION

Padel courts must comply with specific lighting standards set by sports federations. In general, a minimum lighting level measured in lux (unit of measurement of illumination) is required. For competitions, a higher lighting level is recommended (500-750 lux), while for recreational play it can be lower (300-500 lux).



Uniformity of light is key: there should be a homogeneous distribution of lighting throughout the court to avoid shadows or bright spots of light that may distract or hinder play. LED floodlights are used as they provide bright and uniform illumination, have low energy consumption, and have a longer life compared to other light sources. In addition, LEDs can be configured to reduce glare.



ARTIFICIAL TURF

Artificial turf courts are easy to maintain. They require less daily maintenance, and synthetic turf can last for several years with proper care.

The turf is designed to withstand extreme weather conditions and the constant wear and tear of the game. We work with the best manufacturers in the market such as Mondo, Juta and Real Turf.

We offer a variety of colours to choose from, depending on your preference: blue, orange/clay, red, green, black and pink.



OFFICIAL TURF

Sand backfill: silica sand calibre 0.2 - 0.5 mm.

Open-cast extraction, in a deposit of eolian dunes, located in Sanchonuño and pine forest area (Segovia, Spain).

Washing with natural water, without chemical additives, with subsequent wet classification. Drying in a biomass kiln and dry refining calibration.

Without chemical additives in any of its processes, which makes it a totally ecological product. In addition, they do not undergo any breaking or crushing, only classification by calibres.



Other characteristics:

- SiO₂ content varies from 91% to 97%, depending on each pit in the deposit.
- Uniformity coefficient: 1.40.
- Humidity of the dry product tends to 0, and that of the drained product is around 4%.
- Apparent density according to moisture content from 1500 kg/m³ to 1623 kg/m³.

EXTERNAL COATING

The structure is coated with a baked-on polyester epoxy paint applied in powder and heat treatment, with various colour options, whose physical and chemical characteristics mean that it requires minimum maintenance.



Type: Polyester without TGIC

Colour: RAL chart

Properties: TGIC free. Good colour and gloss stability when exposed to weathering.

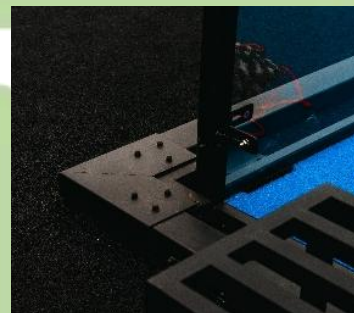
PORTABLE KIT (OPTIONAL)

Steel plate for net posts 2200x1500x15 mm

Perimeter ring 100x60x3 mm

Optional:

- Counterweight boxes 1500x500x500 mm
- Base steel plates 21000x11000x12mm



WIND RESISTANCE

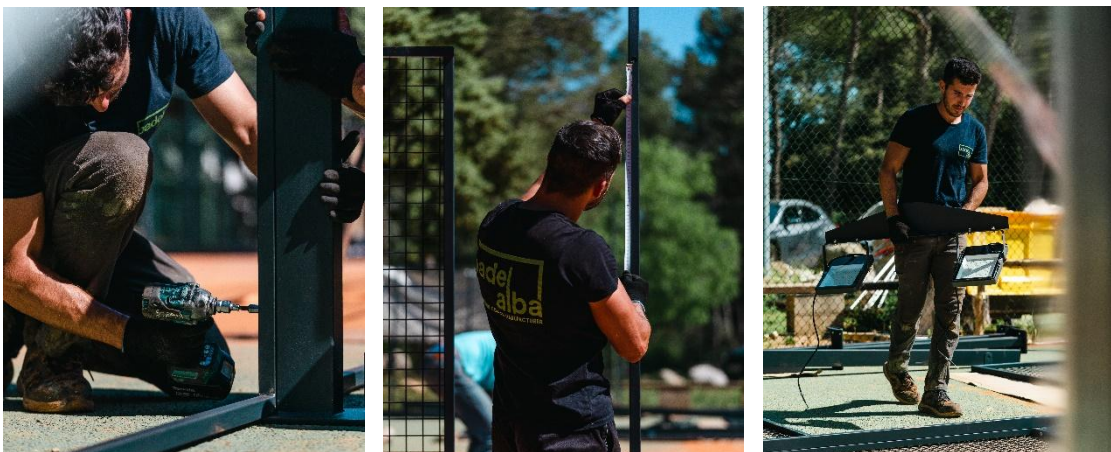
Structural resistance calculations have been carried out for the steel profiles of the structure of the ALBA padel court model fixed on a concrete slab, using the coefficients indicated in Eurocode 1.

The results obtained confirm the suitability of **the Alba padel court model in areas with basic wind speed up to 29 m/s (104,4 Km/h)** for areas with regular cover of vegetation or buildings or with isolated obstacles with separations of maximum 20 obstacle heights (such as villages, suburban terrain, permanent forest, Terrain category III, Eurocode EN 1991-1-4).

INSTALLATION AND WARRANTY

Professional Installation

Our team of experts takes care of the complete installation, ensuring a flawless finish and a safe installation. We have years of experience, which allows us to guarantee that each project is executed in an efficient and professional manner.



Manufacturing Guarantee

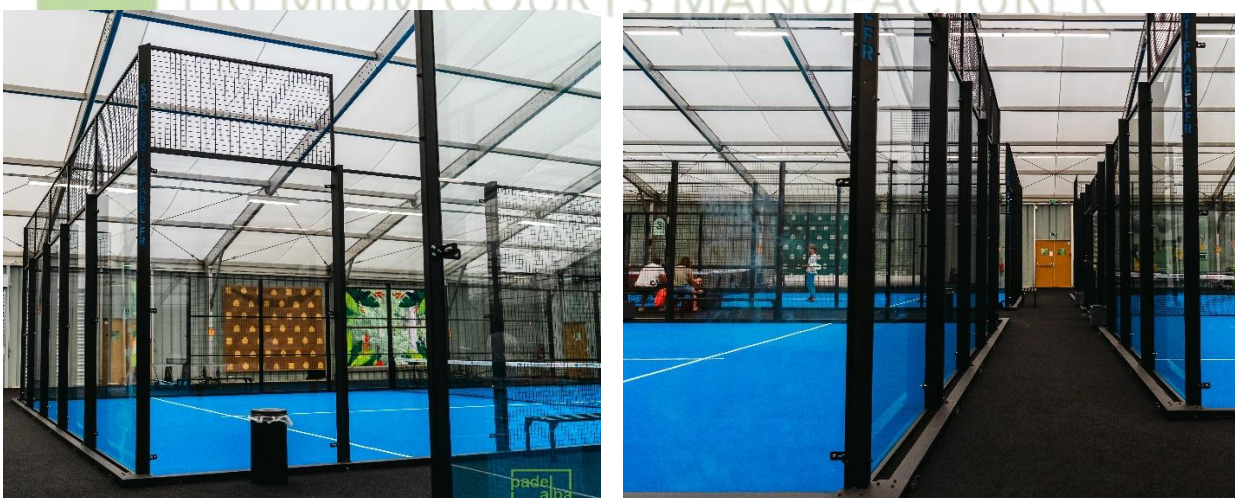
We offer a 5 year guarantee on the materials used in the construction of the courts. With proper maintenance, the metal structure and glass have a useful life in excess of 20 years. The rest of the components (grass, lighting, nets, etc.) according to the manufacturer's instructions.

After-sales technical support

In addition to the standard warranty, we offer an after-sales technical support service for any questions or problems that may arise after installation. We are always available to our customers to ensure that their courts continue to function optimally over time.

PROJECTS IMPLEMENTED

Rue de Center Parcs: Alba Portable Model





Killarney Contry Club: Alba Indoor Model



TC Bandol: Alba Outdoor Model

