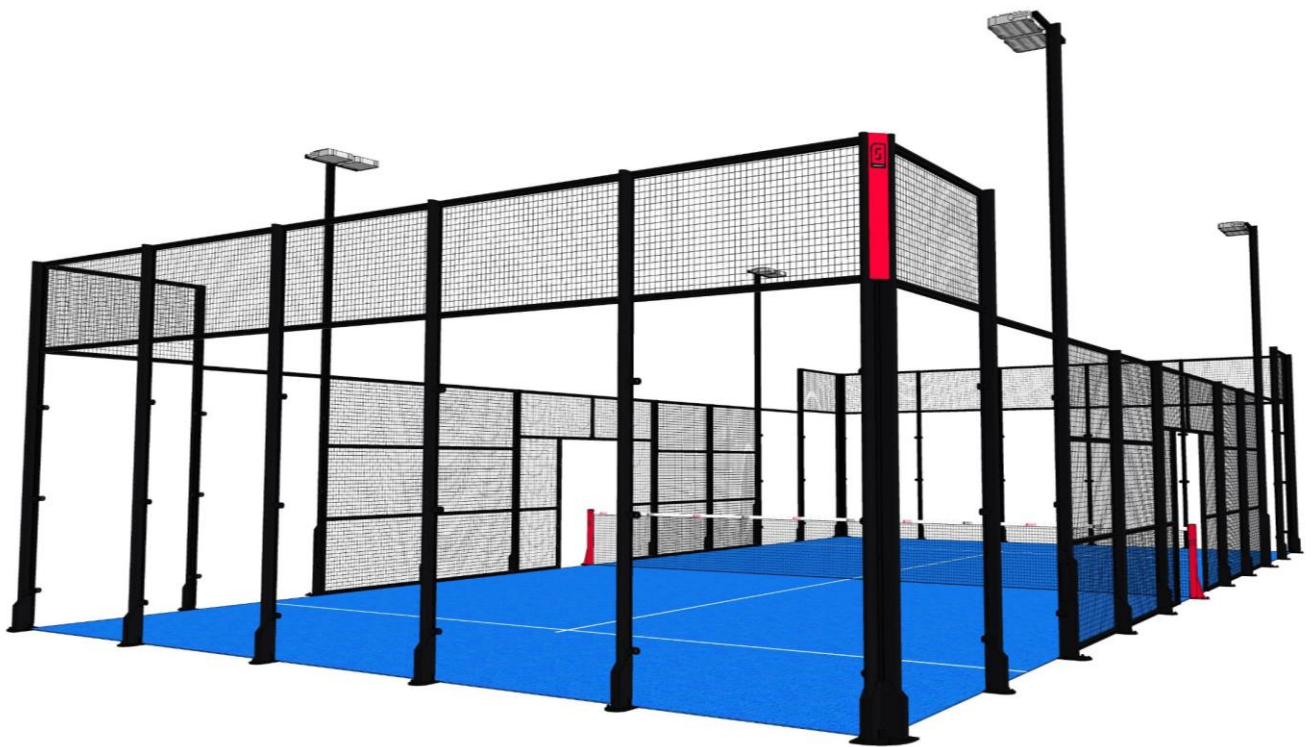


REDSPORT ALUMINUM RF 3.0 PADELCOURT KIT - 2025



EXTENDED DESCRIPTION

THE CLIMATE EFFICIENT PADEL COURT

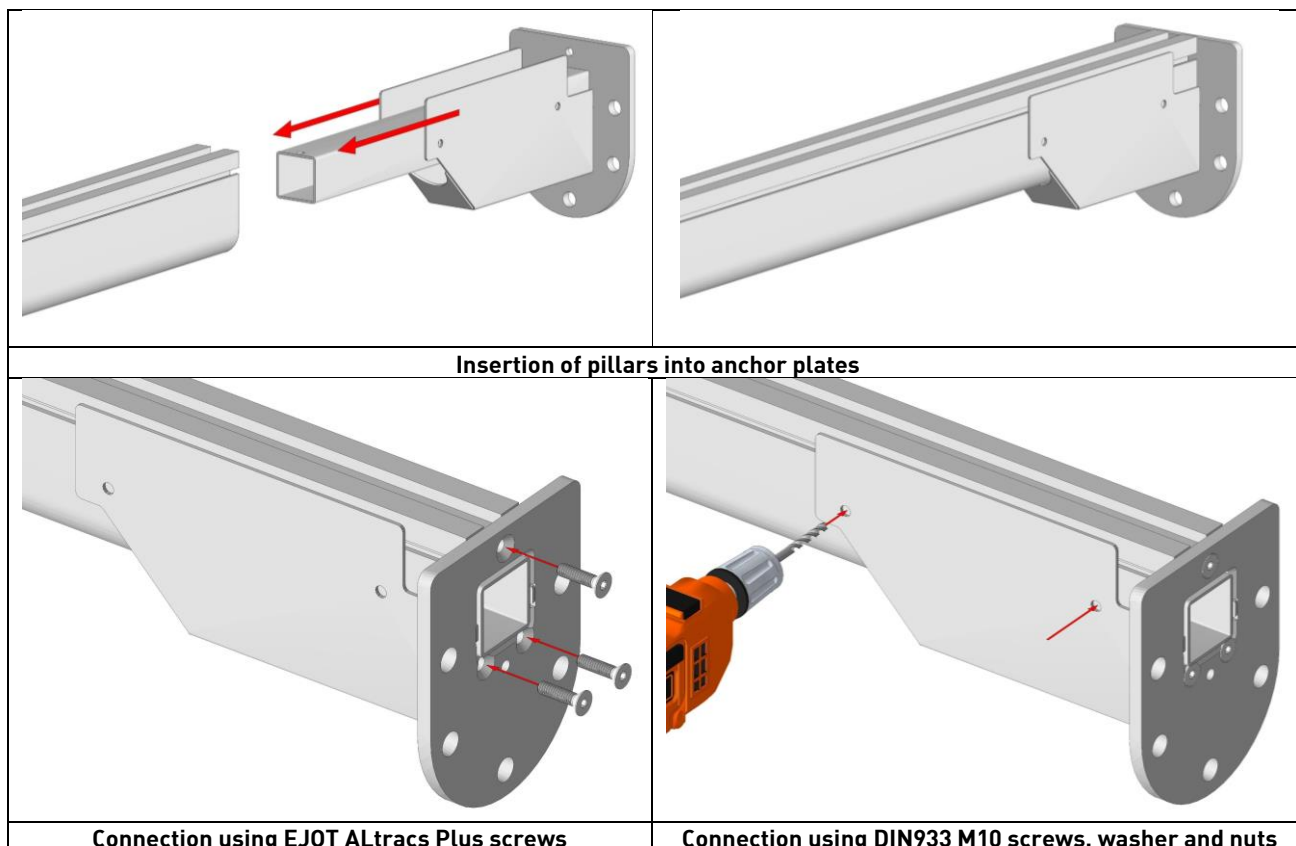
STRUCTURE

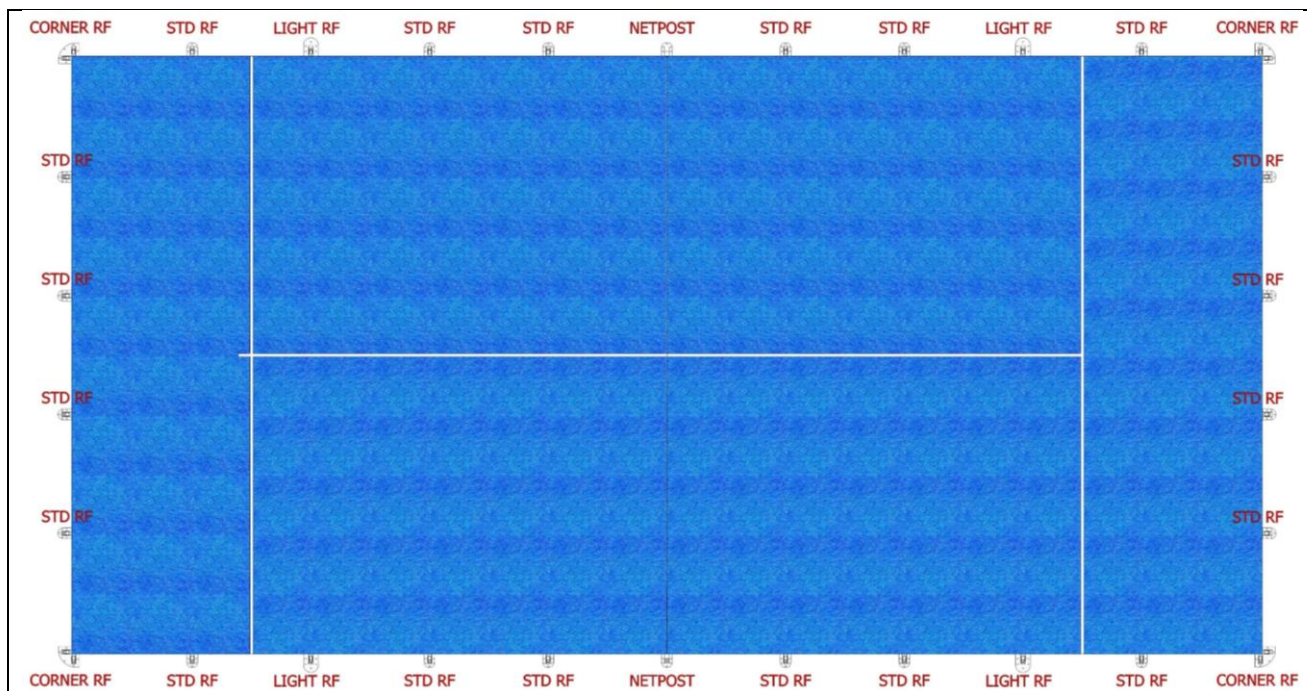
- Designed and manufactured according to the UNE 147201:2024 standard: Sports and recreational equipment: Padel courts, safety requirements, and testing and inspection methods.
- Structurally calculated according to EN 1990 Eurocode 0, EN 1991 Eurocode 1 y EN 1999 Eurocode 9 standards to ensure their structural stability and resistance.
- Dimensions and measurements according to specifications defined in the Padel Game Regulations issued by the International Padel Federation (I.P.F.).



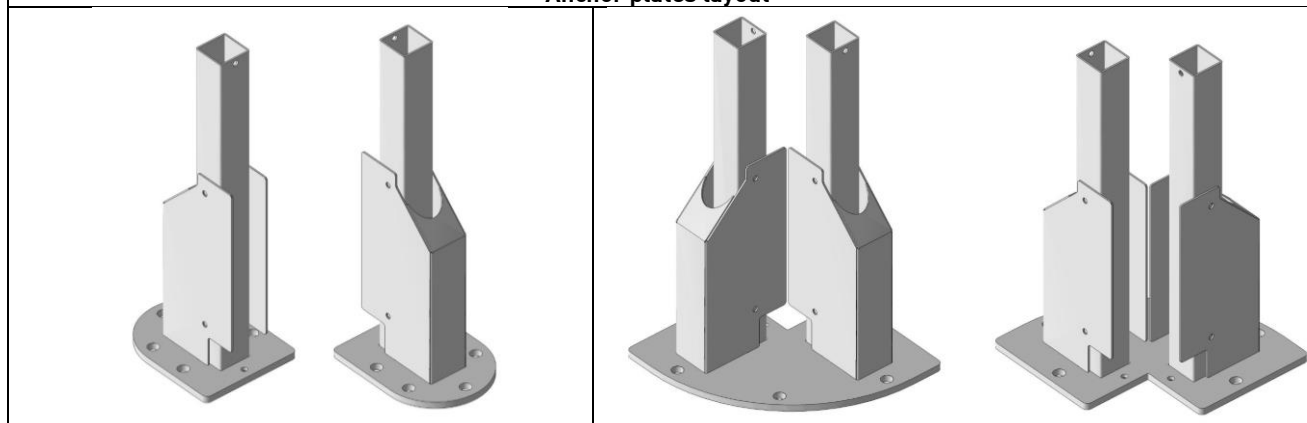
Aluminum profiles developed in collaboration with Hydro company. Court pillars made of exclusive rounded 133x66x2 mm profiles in Aluminum with alloy EN AW-6063 [Al Mg0,7Si] and T-6 treatment according to UNE-EN 755-2 standard. Alloy 6063, historically one of the most popular alloys in the 6000 series, provides good strength, and very good corrosion resistance – used primarily for structures requiring good strength [architectural and building products].

All the aluminum pillars are inserted on the 12 mm thickness anchor plates through a 60x60 mm profile 60 cm in height; in addition to this profile, all these anchor plates have been reinforced (see anchor plates layout). The pillars are connected to the anchor plates by 2 units of DIN933 M10 screws and 3 units of EJOT ALtracs Plus screws (thread-forming fasteners), developed for maximum strength values in light alloy assemblies, with conical thread forming zone. These ALtracs screws should be installed on site. Anchoring to the pavement: using M16x145 expanding metal bolts.



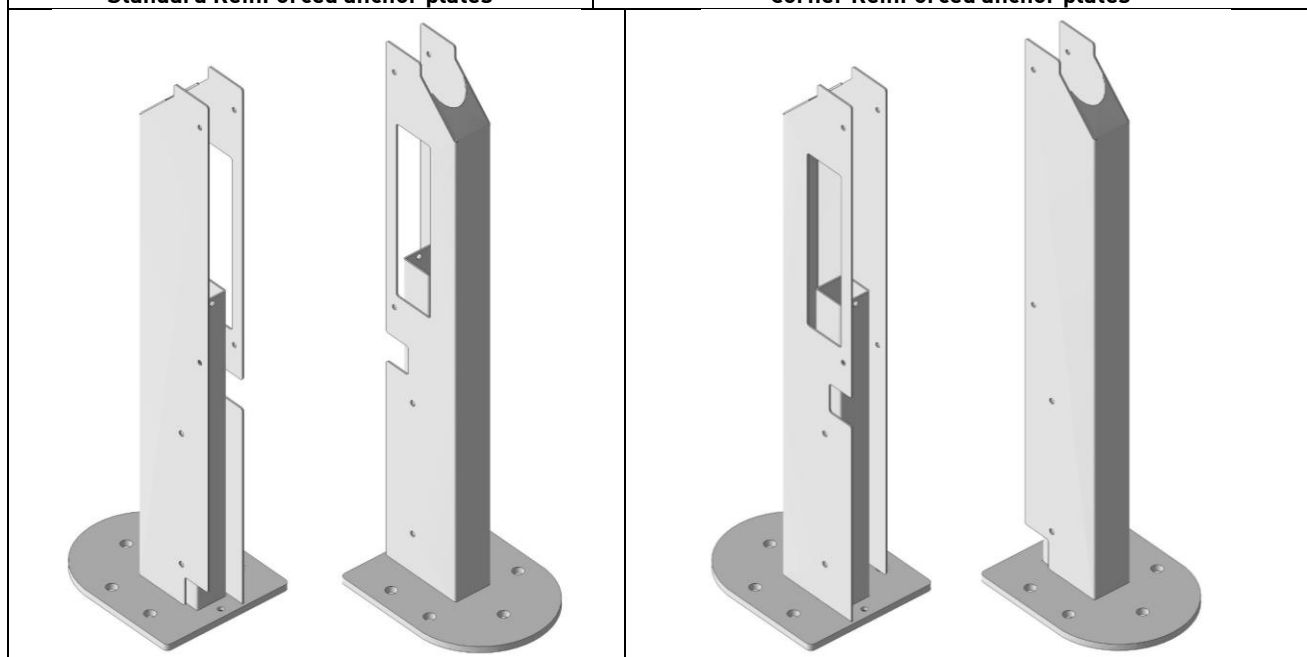


Anchor plates layout



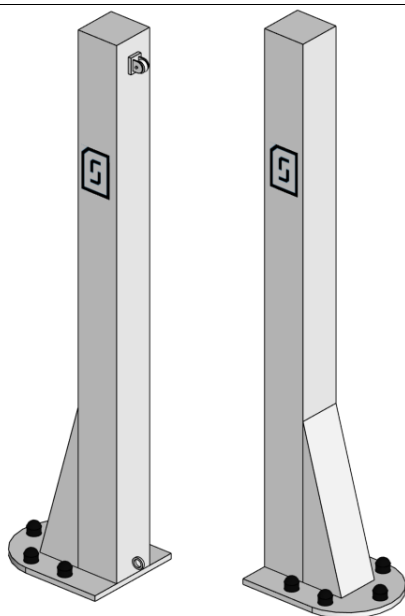
Standard Reinforced anchor plates

Corner Reinforced anchor plates

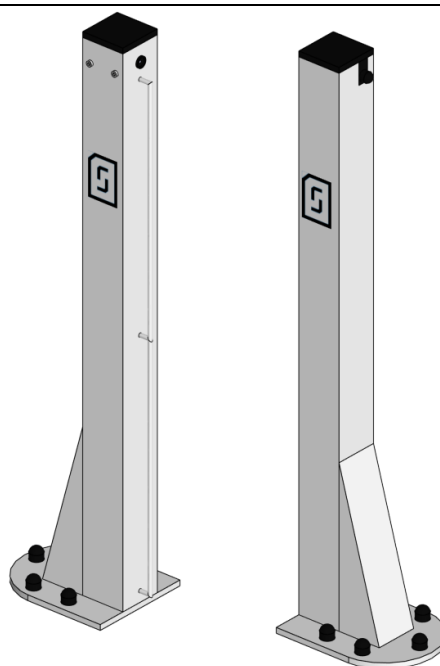


Light post Reinforced anchor plates (left side)

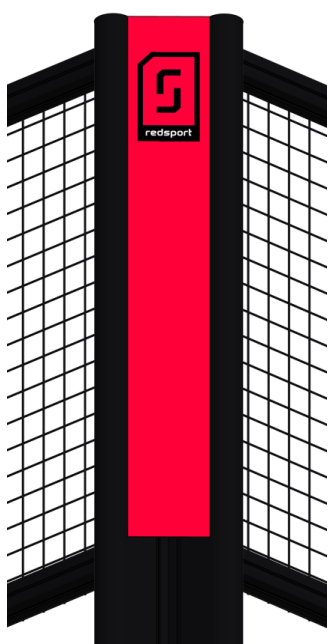
Light post Reinforced anchor plates (right side)



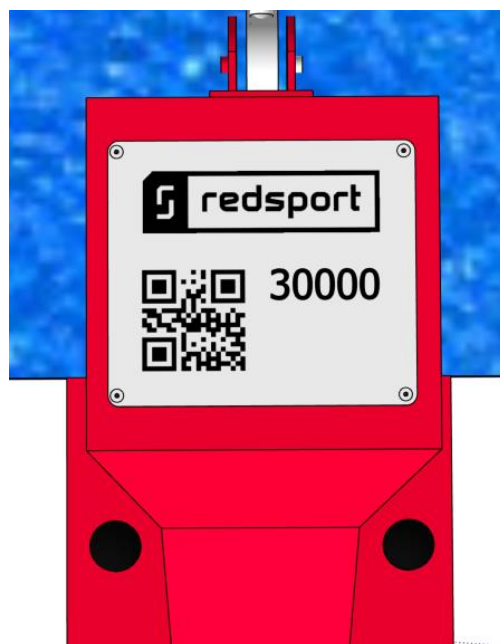
Net post (roller side)



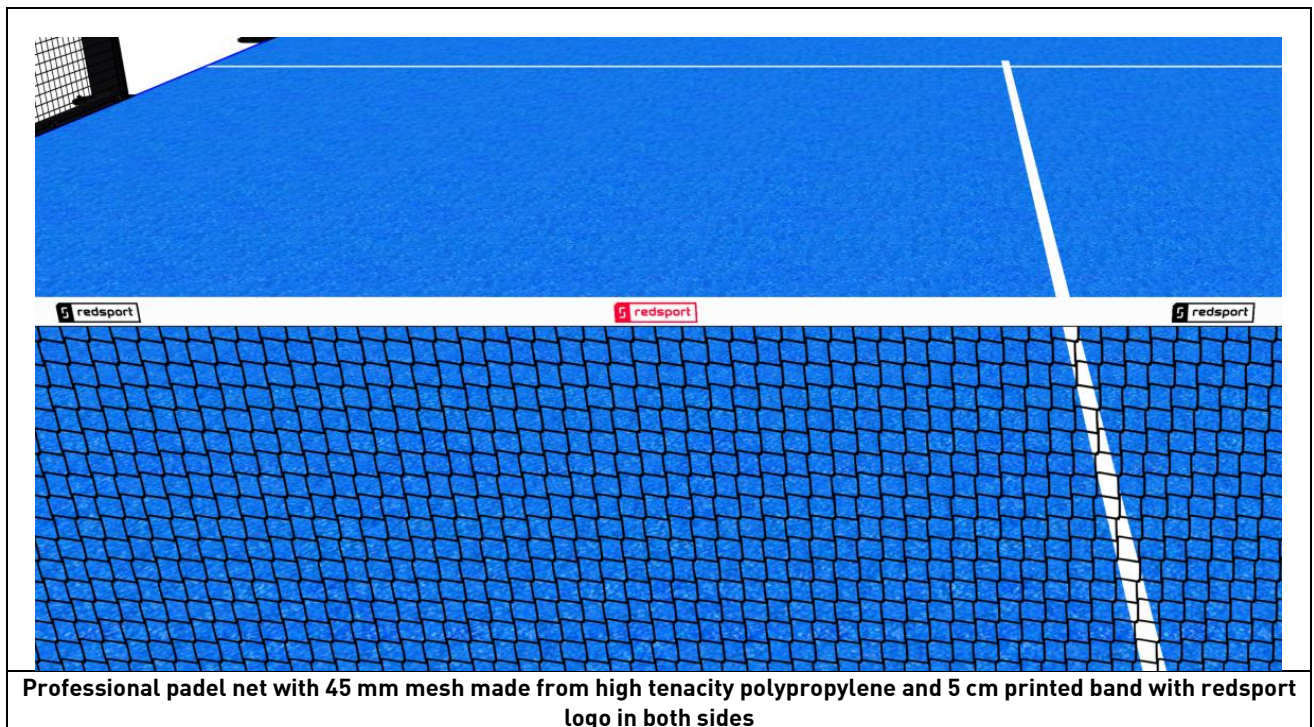
Net post (tensor side)



redsport logo on the top of all corner pillars



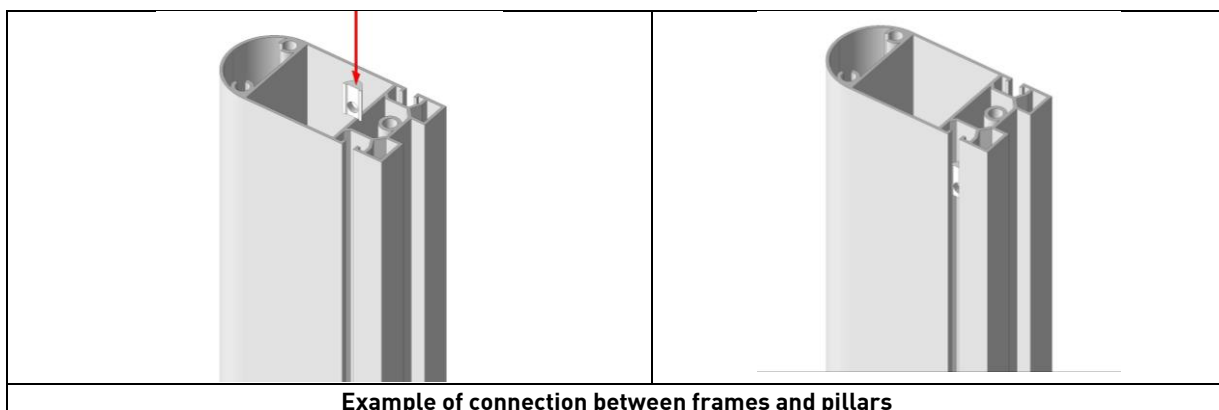
Certificate of authenticity with serial number to guarantee control and traceability



The mesh enclosure for the Padel court is manufactured with welded steel mesh type 50x50/4 according to UNE-EN 10223-4 standard, made with 3.8 mm galvanized wire (EN 10.204:2004-3.1) painted with anticorrosive primer, framed with 50x50x1,7 mm aluminum profiles.

We use zinc-plated ITEM Central-Fastening Set and ITEM Universal-Fastening Set for connecting these 50x50 mesh frames to the pillars.

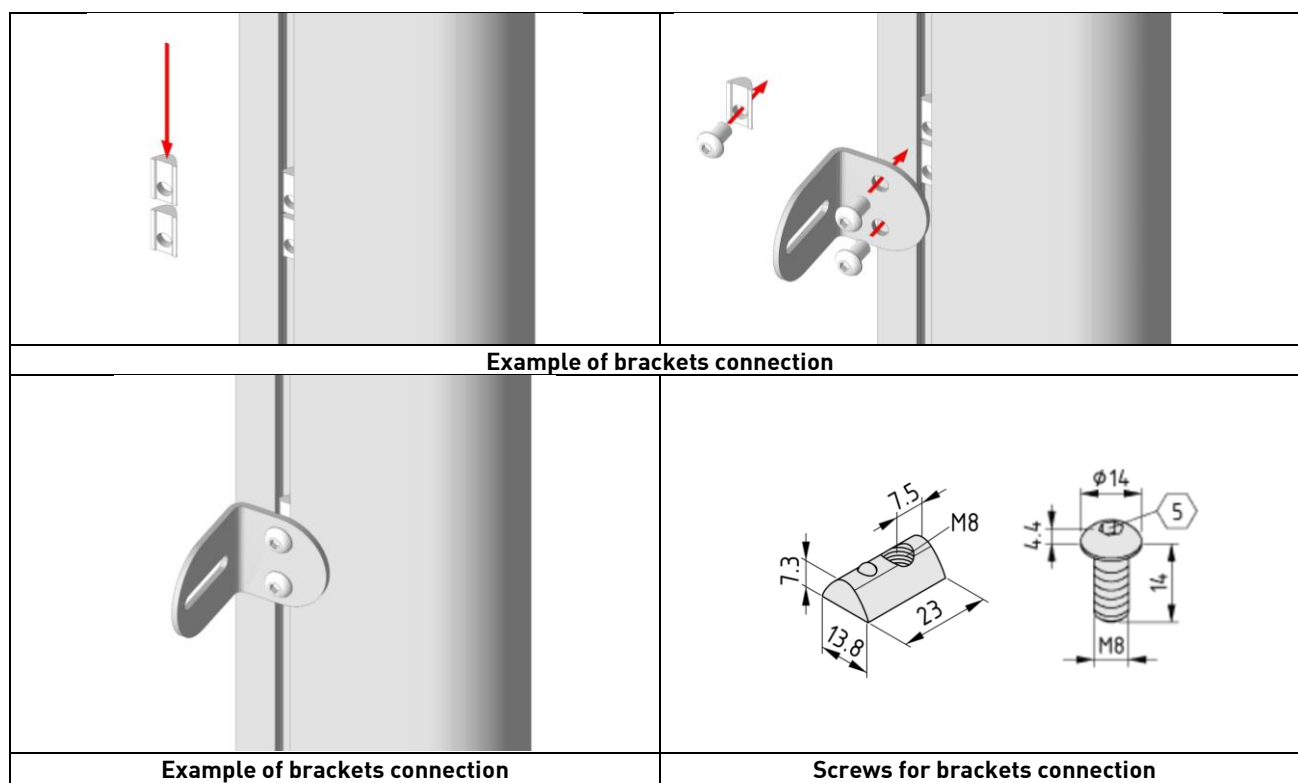
2 aluminum staple type pieces will be used to connect the welded steel mesh with the 50x50 frames. The mesh is folded at each side in vertical positions, guaranteeing the continuity of the mesh in front of the pillars and their alignment with the inner face of glass, ensuring the player can safely contact the mesh (anti-injury system).



Example of connection between frames and pillars	
Staple pieces to fix the mesh into the 50x50 frames	50x50 frames for meshes
3x2 m mesh example once assembled	Screws for frames connection

No welding required with this system.

This Padel court has pre-galvanized steel and painted brackets 70x50 mm for glass support. These brackets are fixed to the pillars using ITEM Button head screws and ITEM T-Slot Nuts.



No welding required with these systems.

Hydro RESTORE is RECYCLED ALUMINUM, manufactured from pre-used or post-used junk on 80% and primary aluminum on 20%. Junk is generated even in the most advanced manufacturing process. Hydro is committed to collect and recycle junk close to the place it originated contributing to a local and circular economy of the aluminum cycle. This process is made in a transparent way providing certified documentation from third parties: all operations are audited and have got a product environmental declaration issued by the ASI (Aluminum Stewardship Initiative), a recognized non-profit organization that has developed a system of third-parties independent certification focused on the responsible aluminum production. The principles of sustainability and human rights are guaranteed to be more and more integrated in the aluminum production, use and recycling.

With the production and the transportation of the aluminum Padel courts, we are contributing to being part of a smarter and more sustainable future and even more with the carbon footprint which represents the total amount of greenhouse gasses (GG) resulting from everyday economic and human activity.

From September 2022, AFP Courts is manufacturing all aluminum Padel courts models with the Hydro Restore recycled material which will guarantee that the origin of the raw materials used for the AFP Courts profiles extortion will come from 80% of junk recycling. Our clear priority is to have the most sustainable Padel courts and contribute to the carbon footprint reduction.

GLASS

Tempered Safety Glass:

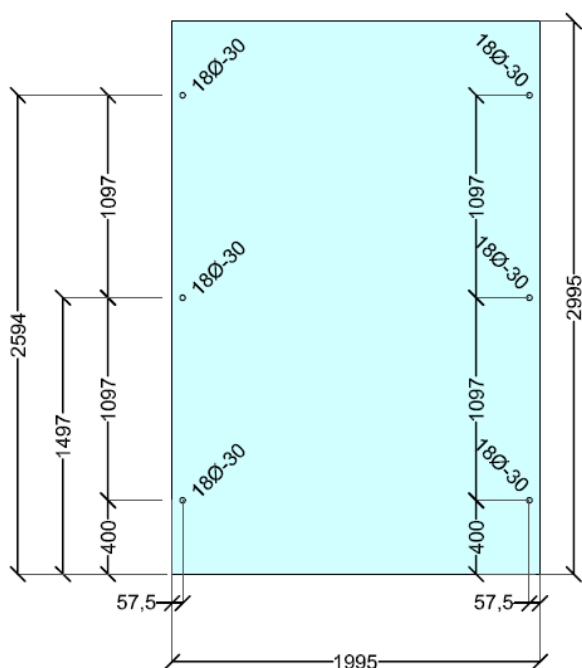
- Specifications: 10 mm tempered safety glass in 18 modules of 3x2 m.
- Standards:
 - o Specifically manufactured for padel courts according to UNE-EN 12150 Standard.
 - o Impact and breakage resistance type C according to UNE-EN 12600:2003 Standard.
- Fastening: Countersunk holes for stainless steel screws, polyethylene cone, and separation from the metal structure with neoprene or rubber between 5 to 8 mm thick.

10 mm Toughened safety glass with countersunk fixing holes for installation:

- 18 Units of 1995x2995 mm.

All the glass must have the CE marking, according to UNE-EN 12150-2:2005.

Characteristics in:	10 mm
Reaction to fire [EN 13501-1]	A1
Direct airborne sound reduction [EN 12758]: R_w [C, Ctr]	34 [-2, -3]
Thermal properties: U-value [EN 673]	5,6
Thermal properties: Normal emissivity ϵ_n [EN 12898]	0,89
Light transmission/reflection [EN 410]: τ_v / ρ_v / ρ'_v	87/8/8
Solar energy transmission/reflection [EN 410]: τ_e / ρ_e / ρ'_e	75/7/7



Hardware used for glass fastening



DIN 7991-8*35 Stainless-steel A4



DIN 985 M8 Stainless-steel A4



DIN 9021 M8 Stainless-steel A4



Polyethylene cone

FINAL TREATMENT



All the **aluminum profiles** are lacquered with quality seal Qualicoat Seaside. Hydro can provide products that meet the requirements for SEASIDE Class and is authorized to use the quality sign according to the regulations for the use of the Qualicoat quality sign for paint, lacquer, and powder coatings on aluminum for architectural applications, providing corrosion protection for the aluminum structure to a C5M grade according to UNE-EN ISO 12944-2:2018 standard.

.....

All **anchor plates** have cataphoresis treatment. Cataphoresis, also called electrophoresis deposition (cationic electrophoresis), is a surface treatment that consists of electrochemically depositing an epoxy-type coating on a metal part (steel, cast iron, aluminum, magnesium, etc.) This industrial painting technique is widely used in the automotive industry as well as industries involving heavy-duty machinery, motorcycles, aircrafts, energy, and weapons. This anti-corrosion treatment is also one of the most suitable for steel, aluminum, magnesium, or cast/wrought iron products.

The separation of ions during electrophoresis allows the cataphoresis paint to be uniformly deposited over the entire surface of the part, which fully protects it from corrosion.

To carry out a cataphoresis treatment, the part is immersed in a water-soluble paint bath where it is polarized (by a cathode) via an electric current. This allows the paint particles that are suspended in the bath to migrate and deposit on the part. This process guarantees that the cataphoresis paint is uniformly deposited on almost the entirety of the submerged part.

The coat thickness of these pieces is 15-25 μm (cataphoresis) + 60-100 μm (powder coating). The corrosion test meets the requirements defined in EN ISO 12944-6:2018 for a corrosivity category of C5M.

.....

The set of **welded steel mesh panels, brackets and net-posts**, are protected by polyester powder paint System hardened by oven, following the following process:

1. Pre-treatment Tunnel:

Parts are washed to remove impurities and ensure paint adhesion. The process includes degreasing, rinsing, osmosis treatments, and a "Nébula" passivation system.

2. Drying Oven (120°C):

Hot air circulation dries the parts completely before primer application.

3. Powder Primer Booth:

An epoxy, zinc-free primer with High-Density Crosslinking (HDC) technology is applied. It offers excellent adhesion, mechanical strength, and corrosion resistance. Corrosion protection grade of the structure is C4 according to UNE-EN ISO 12944-2:2018 Standard

4. Gelation Oven (200°C):

Converts powder paint into gel form, preventing contamination and accelerating polymerization.

5. Powder Coating Booth:

Powder paint is applied using electrostatic guns in a dielectric booth with a cyclone system for overspray recovery.

6. Polymerization Oven (200°C):

Heat solidifies the paint, ensuring adhesion. Air curtains maintain uniform temperature and energy efficiency, avoiding cross-contamination between batches.

Automated painting chain scheme



AFP TURF



TECHNICAL DATA SHEET

» Yarn type
Monofilament TEX (6 filaments)

» Yarn composition
100% POLYETHYLENE

» Color
Columbia blue / Olive green

» Primary backing
R3/10

» Secondary backing
Latex (styrobütadien)

» Tufting process
Linear tufting

» Gauge
3/16"

» Yarn dtex
9.000

» Yarn thickness
200 µm

» Yarn height
12 mm

» Stitches per 10 cm
22,5

» Tufts per m²
49.600

» Number of filaments/m²
283.464

» Water permeability
> 500 mm/hr

» Yarn weight (g/m²)
1.360

» Backing weight (g/m²)
280

» Coating weight (g/m²)
900

» Total weight (g/m²)
2.540

TEXTURIZED FIBER

» Height: **12mm** » Infill: **Sand**



RECOMMENDED INFILLS

» Sand infill
Quartz sand, rounded, washed and dried

» Sand grain size
0,3-0,6 mm

» Quantity
≥ 10 kg/m²



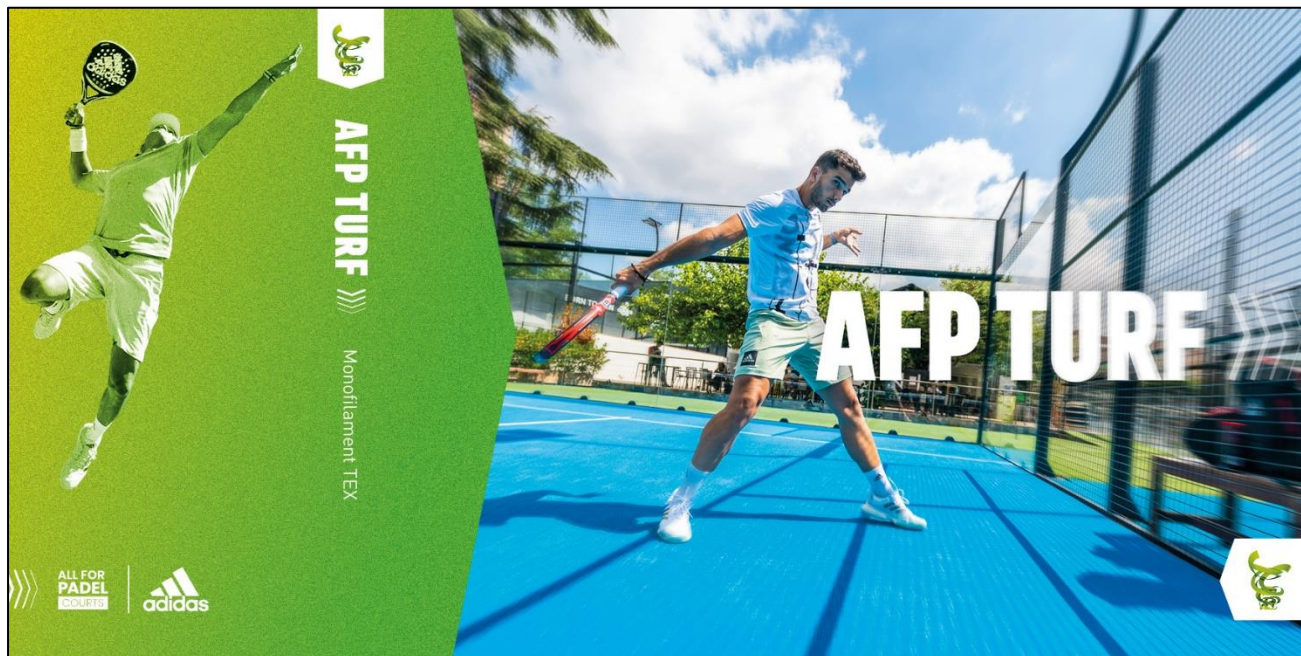
CERTIFIED PRODUCT



This label is printed with ecological inks and 100% recycled, ecological and recyclable paper.



AFP TURF



TECHNICAL DATA SHEET

» Yarn type
Monofilament TEX (6 filaments)

» Yarn composition
100% POLYETHYLENE

» Color
Columbia blue / Olive green

» Primary backing
R3/10

» Secondary backing
Latex (styrobütadien)

» Tufting process
Linear tufting

» Gauge
3/16"

» Yarn dtex
9.000

» Yarn thickness
200 µm

» Yarn height
12 mm

» Stitches per 10 cm
22,5

» Tufts per m²
49.600

» Number of filaments/m²
283.464

» Water permeability
> 500 mm/hr

» Yarn weight (g/m²)
1.360

» Backing weight (g/m²)
280

» Coating weight (g/m²)
900

» Total weight (g/m²)
2.540

TEXTURIZED FIBER

» Height: 12mm » Infill: Sand

RECOMMENDED INFILLS

» Sand infill
Quartz sand, rounded, washed and dried

» Sand grain size
0,3-0,6 mm

» Quantity
≥ 10 kg/m²



CERTIFIED PRODUCT



INSTITUTO DE
INVESTIGACIÓN
DE VALENCIA

This label is printed with ecological inks and 100% recycled, ecological and recyclable paper.



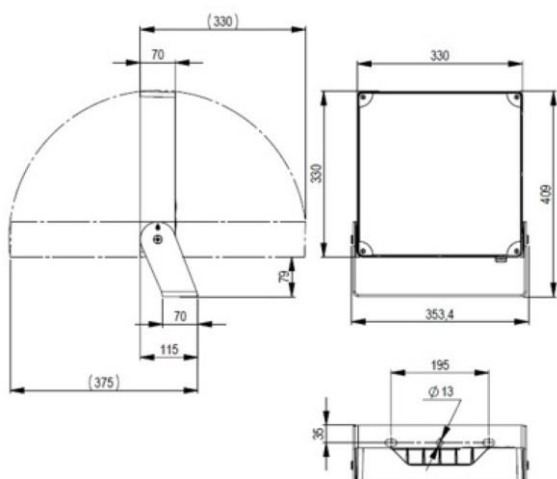
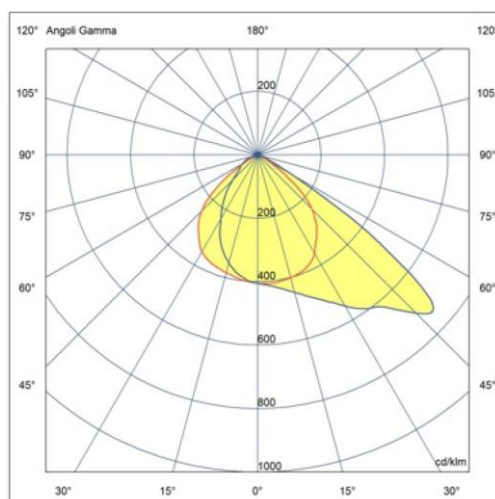
LED SPOTLIGHT



The LED sources used, with very high efficiency, produce unprecedented lighting that allows the illumination of building façades or hardstands, even at considerable distance. The diffuser has an ample and uniform area of emission, allowing very low luminosity and therefore reduced glare with high visual comfort. The excellent mechanical characteristics (IP66-IK08) allow installation in outdoor settings even in extreme conditions, while the possibility of versions with a symmetrical or asymmetrical beam makes the fixture particularly versatile.

The “square cut” design of the LED allows movements through 360°, on the axis of rotation of the goniometric bracket, thus enabling great flexibility of movement and mounting.

Part number	
Nominal voltage (AC):	230 Vac
Voltage supply range:	93 V – 265 V
Absorbed Power (W):	210 W
Led number:	240
Colour housing:	Grey
CCT light tone:	4000 K
Efficiency:	145 lm/W
Luminaire flux:	30429 lm
Surge protector:	1.5kV
Height / Length / Width:	70 / 409 / 353 mm
Body material:	Die-cast aluminum
Cover /Lens material:	Polycarbonate / Methacrylate
Protection grade IP:	IP66
Protection grade IK:	IK08



AFP MODULAR LINEAL LIGHTING



AFP Modular lineal Lighting is an innovative linear sports light, designed for outdoor and indoor padel courts. Its long shape and large luminous surface contribute to uniform light output. Multiple installation ways satisfy different applications.

Electrical Information

Model No.	FR-SP-AFP240	FR-SP-AFP320	FR-SP-AFP500
Power Consumption (W) +/-	240W	320W	500W
Power Supply	SOSEN Driver	SOSEN Driver	DONE Driver
Input Voltage	120-277VAC, 50/60Hz		
Power Factor	≥0.95		
Flicker Factor	<1%		
Surge Protection	10KV line-earth		
Insulation Class	I		
Driver Type	Constant current (CC)		
Control	ON/OFF		

Optic Information

LED Type	LED 5050		
Luminous Flux (lm) +/-7%	up to 38400	up to 51200	up to 80000
Efficacy (lm/w)	up to 160		
Beam Angle	110°x 60° Asymmetric		
Correlated Color	5000K		
Color Rendering Index	Ra70		

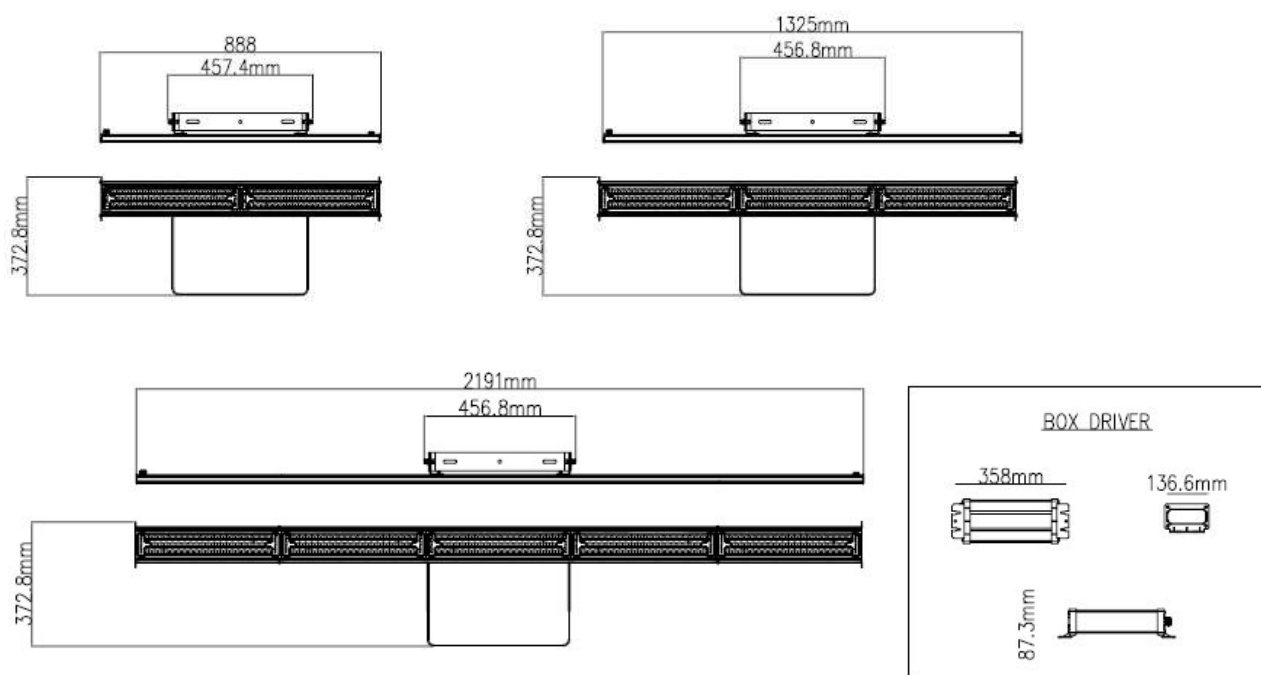
Dimensions and Mount

Product Dimension (mm)	888x372x70mm	1325x372x70mm	2191x372x70mm
Luminaire Net Weight (kg)	6,7 Kg	7,7 Kg	10,3 Kg
Export Carton Size (mm)	940x435x405mm (4PCS/ctn)	1380x435x405mm (4PCS/ctn)	2245x435x405mm (4PCS/ctn)
Gross Weight (kg)	28 Kg	32 Kg	43 Kg
Materials	Heat-sink: AL6063, Special surface treatment+Powder coating		
	Mounting bracket: SPCC, Special surface treatment+Powder coating		
	Cover: Polycarbonate optical lens		
Fixture Color	Black (RAL9017)		
Luminaire Windage	0.08m ² at 0° / 0.11m ² at 20°	0.1m ² at 0° / 0.15m ² at 20°	0.1m ² at 0° / 0.15m ² at 20°
IK Rating	IK10		
IP Rating	IP66		
Category of corrosion	C4 (ISO 9223:2012)		

Lifespan and Warranty

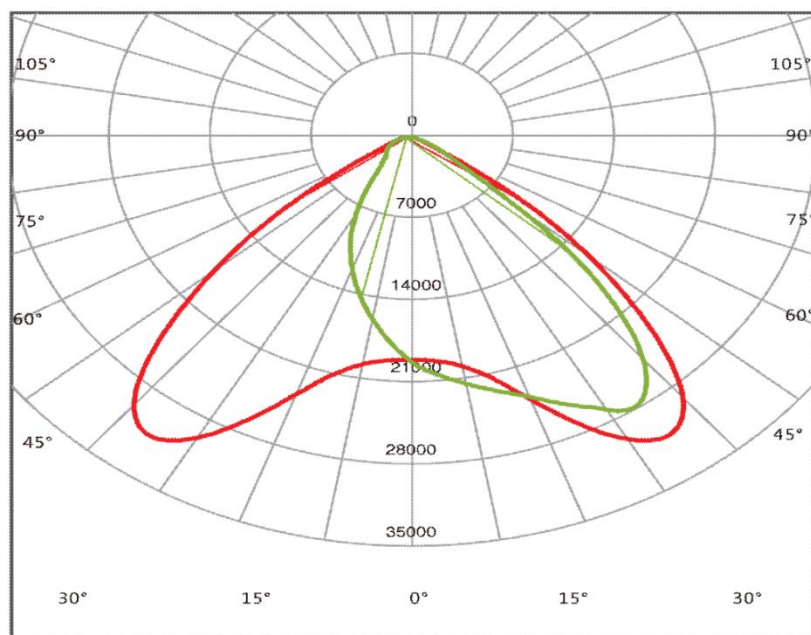
Operating Temperature (°C)	-30 to +50
Life Time of LED	102224-L90B10
@Ta=25°C(hours)	196842-L80B10
Warranty	5 years

Dimensions



Photometry

240W-320W-500W



WARRANTIES

AFP Courts S.L. guarantees the suitability of the materials involved in this Padel court as follows:

Structure	
• Aluminum profiles:	15 years
• Anchor plates with cataphoresis:	15 years
• Pillars, net-posts, anchor plates, meshes, brackets (steel without cataphoresis):	5 years
Glass	
• Glass (see annex):	5 years
Artificial grass	
• Artificial grass	(according to the next table)
Floodlighting	
• AFP Modular lineal lighting:	5 years
• Beghelli projectors:	4 years
Hardware	
• Screws, washer and nuts for fixing glass / Through screws, washer and nuts for fixing lighting projectors and reinforced anchor plates and any other type of through screw (stainless steel):	5 years
• ITEM screws / universal anchors / EJOT Altracs Plus screws (zinc-plated):	2 years
• Self-tapping screw (black nickel-plated):	2 years
• Self-drilling screws with hexagonal point and stamped washer head / Metal anchor dowels inserted in concrete and covered by plastic plugs (zinc-plated):	2 years
Accessories	
• Plastic caps, net system (tensor, roller guide and axis), synthetic rubber profile, adhesive polyethylene profile, net and nylon cone for fixing glass:	2 years
• EPDM neoprene, only the physical integrity of the material is guaranteed (resistance to deterioration): The material must be stored in its original packaging, in a dry and clean place, away from sunlight and atmospheric agents until the moment of installation, otherwise the adhesive properties of the glue could be compromised. The installation must be done on a clean and dry surface, just before the glass is collared, the sooner the neoprene is pressed between the steel and the glass, the better it will adhere to the structure. The screws that fix the glasses must be tightened to 5 Nm.	2 years

The warranty will not be applied if:

- The recommended reinforcements according to geographical area and type of terrain have not been followed (see attached document).
- The recommendations of final treatment for Padel courts according to durability and corrosivity (ISO 12944-1) have not been followed (see attached document).
- The product is used for a different purpose other than the practice of Padel.

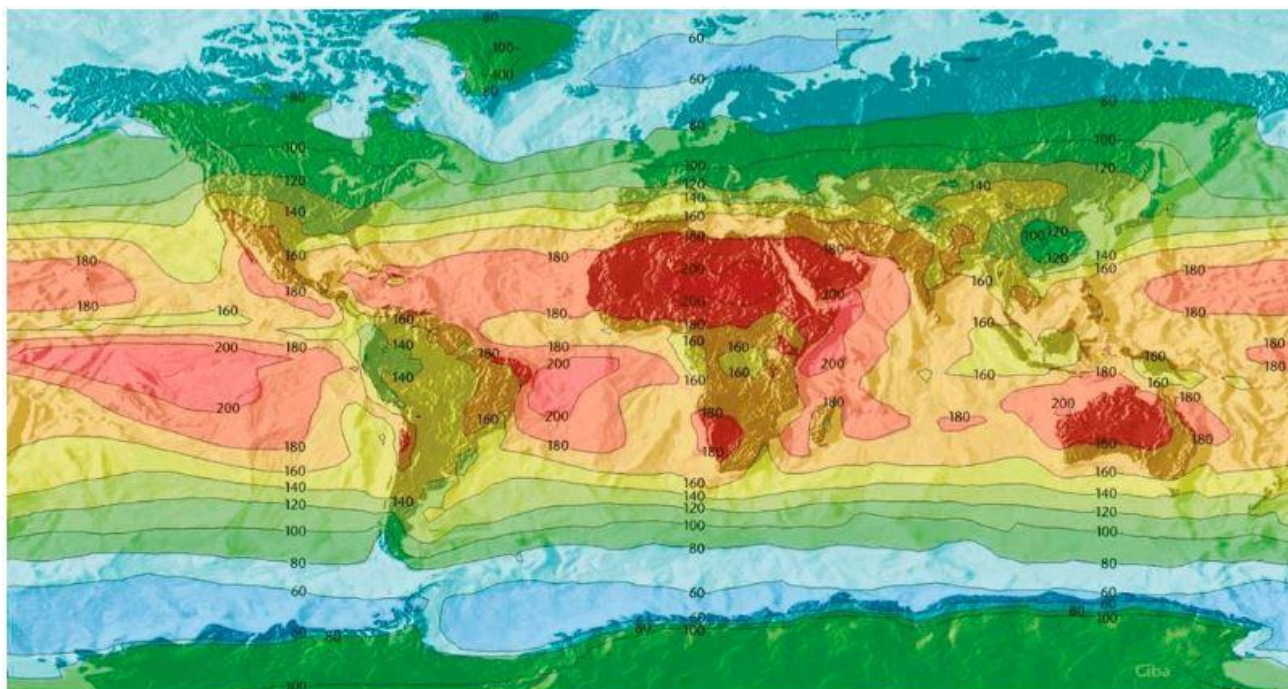
- The product has any kind of damage caused by inadequate handling and storage.
- The product has any damage caused by faulty installation.
- The product has any type of damage caused by faulty or inadequate use or inadequate maintenance.
- The application of the warranty is subject to the completion of scheduled maintenance according to the enclosed maintenance schedule. The maintenance must be documented by a report and a certificate issued by a qualified company and signed by the customer, must be submitted to AFP Courts at the end of each year.
- There are burns, tears, pulling, cuts, accidents due to vandalism, abuse, neglect or abandonment during storage, transportation or installation which were not the responsibility of AFP Courts.
- There are faults or defects in the base/foundation due to inadequate design and construction.
- If unsuitable, overly aggressive or oil-based cleaning products and methods are used which may alter the adhesive capabilities of neoprene.
- Use of inappropriate footwear or equipment for doing sports.
- Due to any natural disaster.

ARTIFICIAL GRASS WARRANTY

Product	< 100 kLy	100 / 120 kLy	120 / 140 kLy	140 / 160 kLy	>160 kLy
AFP TURF	7	6	5	4	3
MONDO XN SUPERCOURT	7	6	5	4	3

Global map of UV solar radiation

The geographical location where the turf is exposed has a lot to do with it. As we can see in the following image, there are areas marked in red in which ultraviolet radiation is maximum, for example around Ecuador, and others where it is minimal. So, logically colour fade will be slower in areas with less incidence of ultraviolet radiation.



Solar radiation is measured in Langley kilograms (KLy) per year and is mapped around the world by region. kLangley World Map.

The product suffers the normal wear and tear of the fiber, unrelated to any manufacturing defect, and will depend exclusively on the carpet construction (gauge used, deposited weight, number of stitches, and fiber height) and the intensity of use of the installation.

This indicates that the warranty does not cover aesthetic defects or any issues resulting from the normal wear due to regular or intensive usage of the installation.

GLASS WARRANTY

They are not considered as defects:

Holes and notches: The incorporation of holes and notches increases the distortion produced during tempering due to the absence of glass and the increase of unsupported edges.

Risk of spontaneous breakage: The presence of nickel sulphide inclusions in the glass structure can lead to spontaneous breakage of the heat-treated glass. AFP Courts is not responsible for this type of breakage inherent to the type of product due to the presence of a component in the structure of the base glass.

Anisotropy: The thermal tempering process produces areas where stresses are different in the cross-section of the glass. These areas of stress produce a birefringent effect in the glass that is visible in polarised light, when viewed in polarised light these areas appear as coloured areas, also known as leopard spots.

White haze: Actual mechanical deformations caused by mechanical pressure between the glass and the rollers. The cause is varied and can occur in different ways, from a vertical stripe in the centre of the glass, at the edges, in the corners or on the whole glass, with slightly cloudy areas, streak marks or repetitive marks. Acceptance criteria are governed by the inspection criteria mentioned above.

Guarantee conditions:

1. Surrounding area must be used for Padel purposes, Padel court must be protected from the outside activities.
2. Even we don't recommend decorative gravel in the surroundings and take care when using brush cutter machines, which can project small materials that could break glass panels.
3. Glass panel is designed to only be used Playing Padel and being hit from the inside of the Padel court, not from the outside. Please consider that if glass panel is hit from the inside of the Padel court, the glass can directly transfer all the stress to the pillars.
4. Follow our maintenance program, making maintenance is crucial for Padel court durability.
5. Glass can be broken for many other reasons **not covered by the guarantee**, example given:
 - a. Poor maintenance with screws/neoprene/cones, which can cause that glass touches the metallic structure or go grinding against the floor.
 - b. Wrong installation.
 - c. Very high changes in temperature.
 - d. Movement of the ground/foundation.
 - e. Hit by some particle using brush cutter.
 - f. **Spontaneous rupture.**

MAINTENANCE

Annual program of maintenance of RedSport Padel courts

[illegible]

FINAL TREATMENT

Recommendations of final treatment for Padel courts according to durability and corrosivity (ISO 12944-2:2018)					
					Pillars of aluminum alloy EN AW-6063 (Al Mg0,7Si) + lacquered with quality seal Qualicoat. Mesh with plastic treatment
Corrosivity category as defined in ISO 12944-2:2018	Test Neutral Salt Spray (h) ISO 9227	Examples of Typical environments in a temperate climate (informative only)	Site of Padel court		
SALT SPRAY					
C3	480	Interior: Production rooms with high humidity and some air pollution (food processing plants, laundries,breweries,dairies.)	Indoor		
SALT SPRAY					
C4	720	Exterior: Urban and industrial areas and coastal areas with low/moderate salinity.	Outdoor		
SALT SPRAY					
C5-I (Industrial)	1000 - 1500	Exterior: Industrial environments with high humidity and aggressive contamination.	Outdoor		
C5-M (Marine)		Exterior: Coastal and marine areas with high salinity. All courts within 15 km of the coast shall be considered as high salinity conditions.	Outdoor		
SALT SPRAY					
CX (Extreme environments)	more than 2000	Exterior: Extremely aggressive exposure areas, such as offshore platforms or harsh industrial environments.	Outdoor		
Durability: Definitions of durability and of durability ranges are given in ISO 12944-2:2018. The durability of a protective paint system depends on several parameters, such as: the condition of the substrate before preparation; the surface preparation grade; the quality of the surface preparation work; the condition of any joints, edges and welds before preparation; the standard of the application work; the conditions during application; the exposure conditions after application.					