adidas PANOARENA 180 PADEL COURT KIT 2025

EXTENDED DESCRIPTION

VISION AND STRENGTH UNITED

STRUCTURE

• Designed and manufactured with a panoramic and framed view for a superior visual experience, everything according to standard: UNE 147201:2024 Sports and recreational equipment: Padel courts, safety requirements, and testing and inspection methods.

• Structurally calculated according to Eurocodes established in the series of UNE-EN 1993 standards and the series of UNE-EN 1090 standards, to guarantee 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).

Metal Structure:

Materials and Construction:

• Grade: Minimum steel characteristics S235JR according to UNE-EN 10025-1 Standard.

• Welding: Performed in a certified workshop according to the UNE-EN 15614 Standard.

• 100x50x2 mm pillars and 100x50x3 mm corner pillars.

• Rigid welded mesh enclosures according to UNE-EN 10223-4 Standard "50x50x4", with frames made of 40x25 mm and 40x10 mm tubes.

Design and Assembly:

• Easy assembly following the court installation manual.

• Anchoring to the pavement: using M16x145 and M12x120 expanding metal bolts.

Included Accessories:

• Padel Net: 3 mm thick, 45 mm mesh made of nylon, with anchoring and fixation system to the structure.

Materials and Technology by AFP Courts:

• adidas net post 160x80 mm.

• Curved lighting pillars.

• Construction system of padel courts Insert Fixation System (IFS®): separation between anchor plates and pillars, facilitating installation and transport (utility model registered ES1294253U – BOPI 12/09/2022).

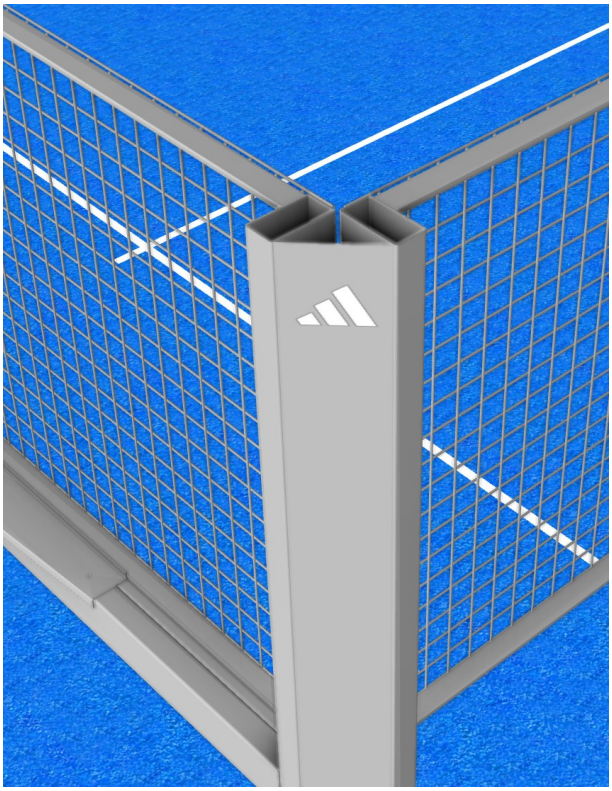
• Anti-injury system with continuous folded meshes of 3x2 m to create a safe playing field.

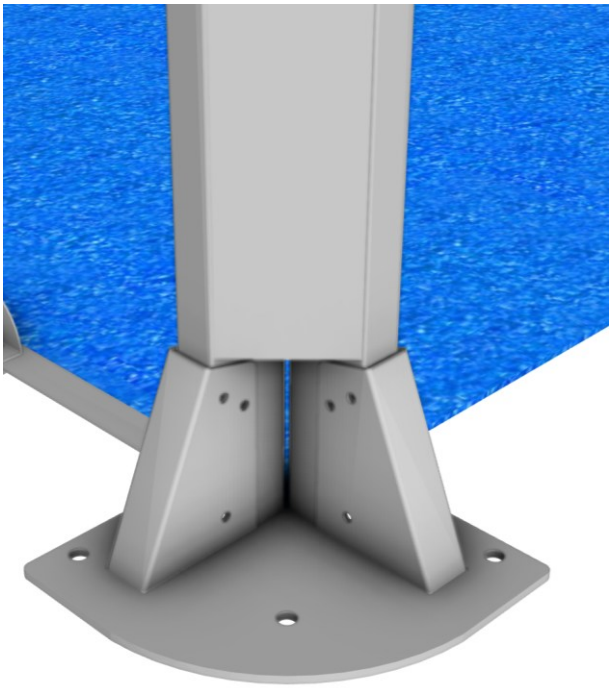
• Cataphoresis treatment on anchor plates (C5M).

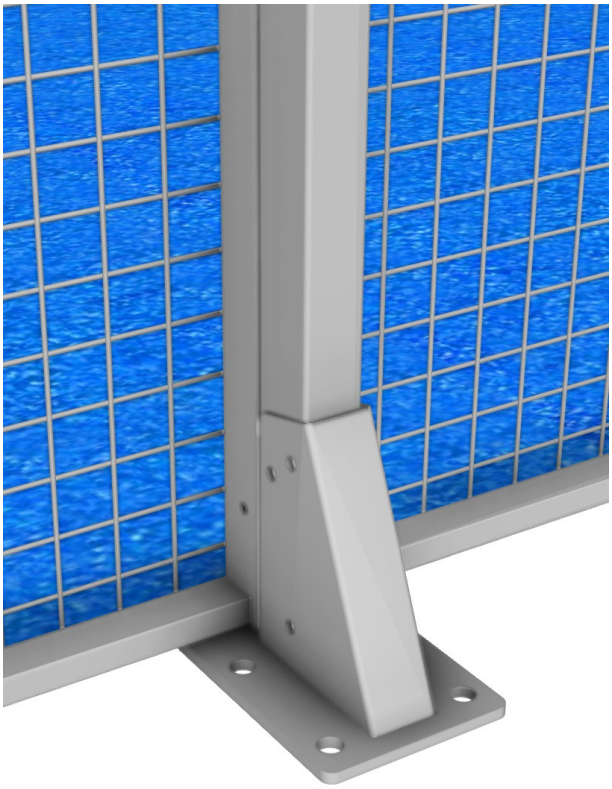
• adidas authentication plate with serial number.

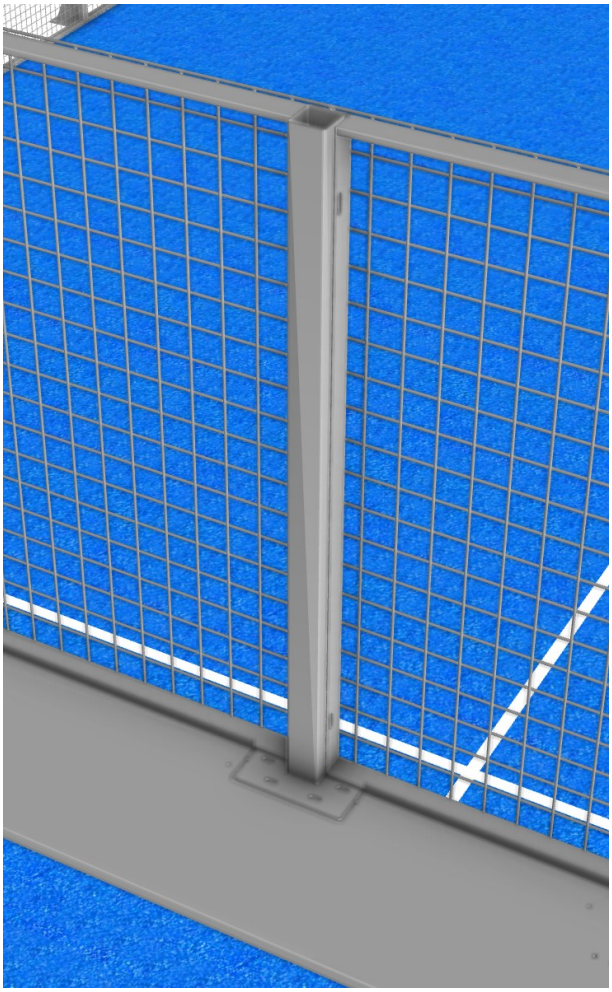
• Visors for Padel court bottoms.

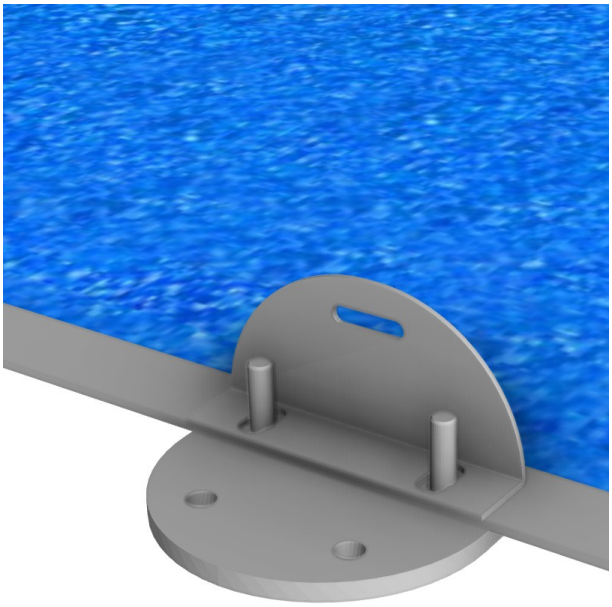
• adidas branding on net post, 9 cm net-cover, glass, lighting pillars and corner pillars.

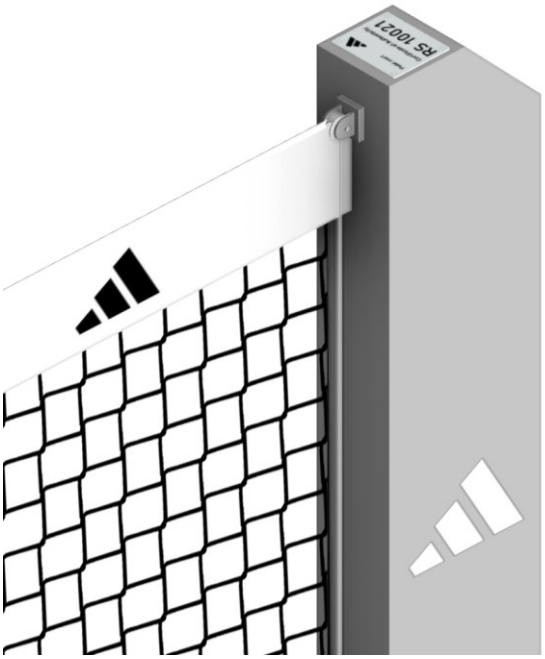


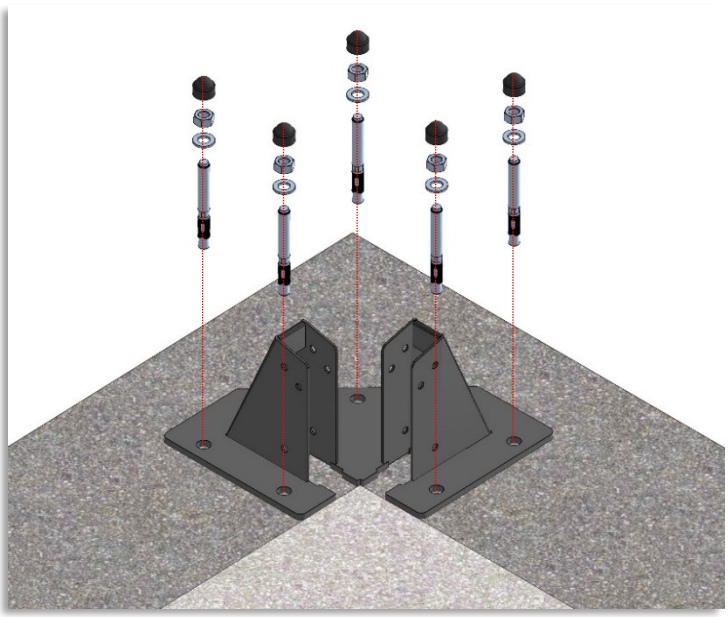


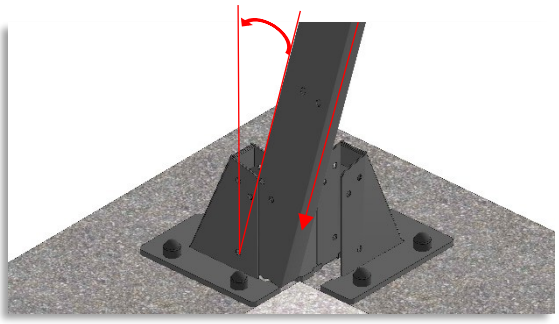


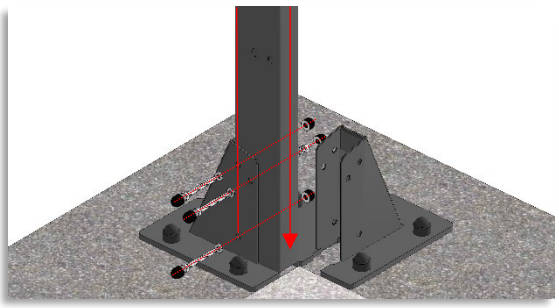


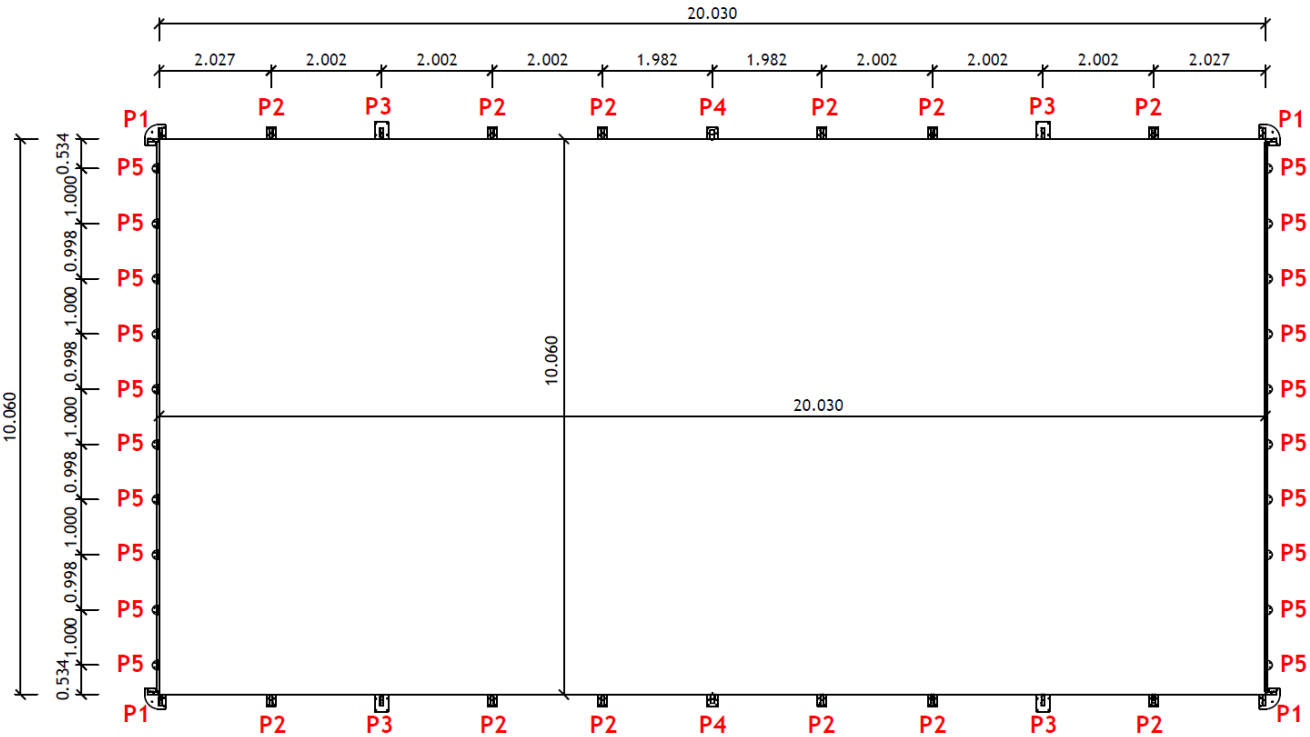



RS 10021

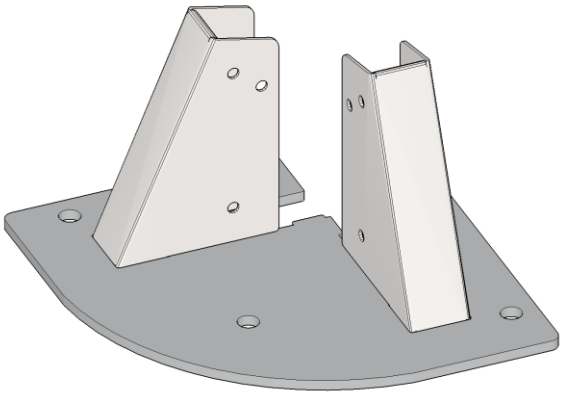


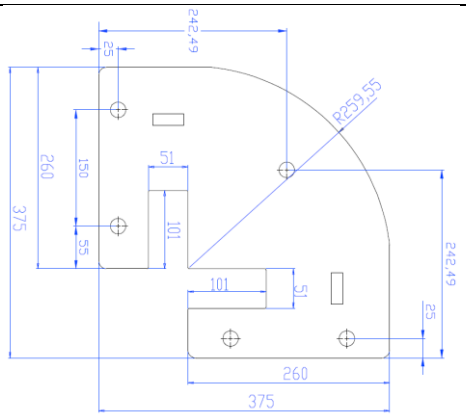




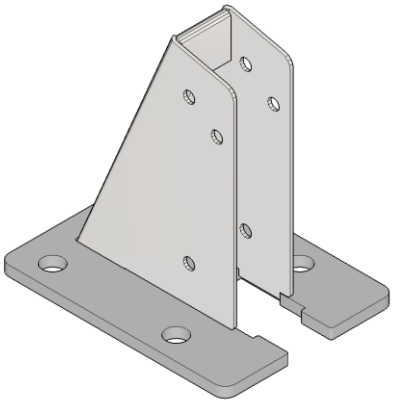

20.030
2.027
2.002
2.002
2.002
1.982
1.982
2.002
2.002
2.002
2.027
P1
P2
P3
P4
P5
10.060
20.030
0.534
1.000
0.998

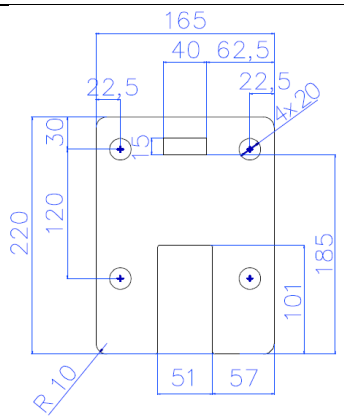
P1: 4 units (10 mm thickness anchor plate)



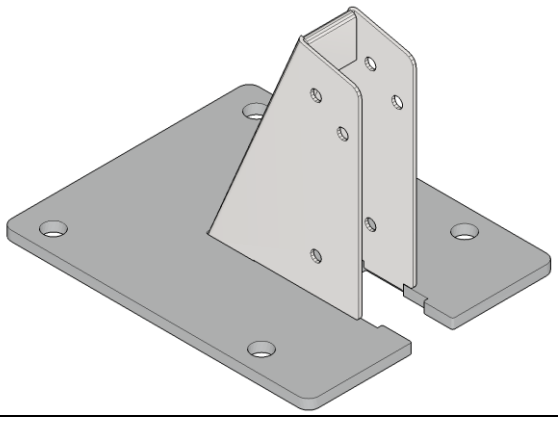


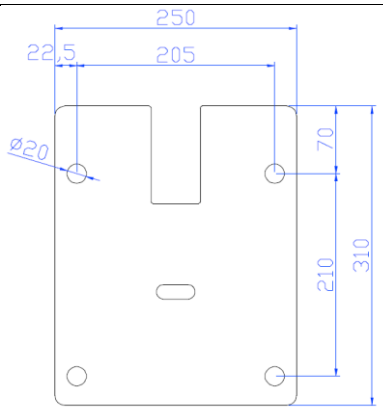
P2: 12 units (10 mm thickness anchor plate)

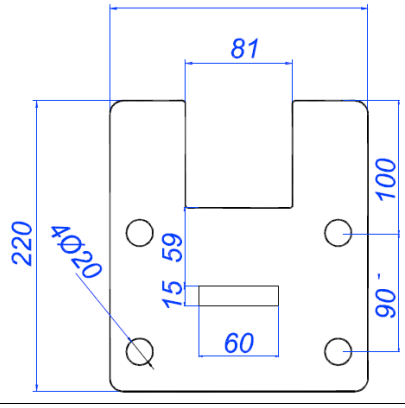
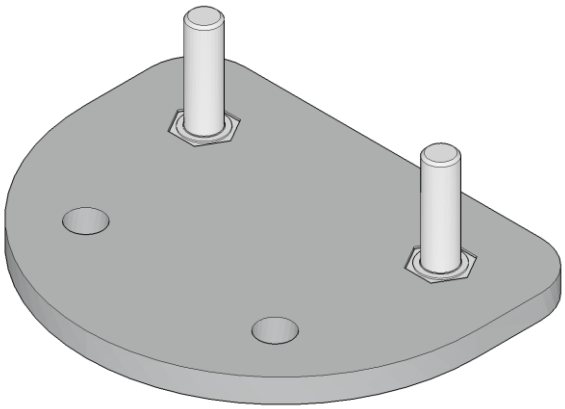
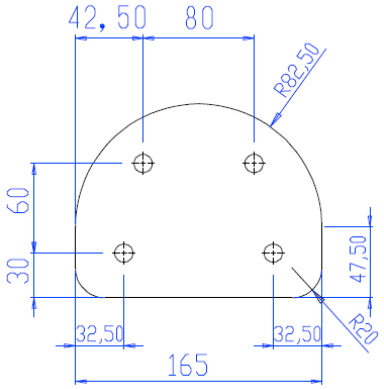




P3: 4 units (10 mm thickness anchor plate)





P4: 2 units (10 mm thickness anchor plate)	
	
P5: 20 units (10 mm thickness anchor plate)	
	

GLASS

Tempered Safety Glass:

• Specifications: 10/12 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.

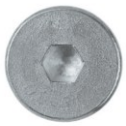
Toughened safety glass with countersunk fixing holes for installation:

- 18 Units of 1996x2995 mm.
- 8 Units of 1995x2995 mm.

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

Characteristics in:	12 mm	10 mm
Reaction to fire (EN 13501-1)	A1	A1
Impact resistance of the pendulum body (EN 12600)	1C1	1C1
Resistance to sudden changes in temperature and temperature differences (EN 12150 - 1)	200 K	200 K
Direct airborne sound reduction (EN 12758): Rw (C, Ctr)	35 (-2, -3)	34 (-2, -3)
Thermal properties: U-value (EN 673)	5,6	5,6
Thermal properties: Normal emissivity ε_n (EN 12898)	0,89	0,89
Light transmission/reflection (EN 410): τv/ ρv/ ρ'v	86/8/8	87/8/8
Solar energy transmission/reflection (EN 410): τe/ ρe/ ρ'e	72/7/7	75/7/7

Hardware used for glass fastening

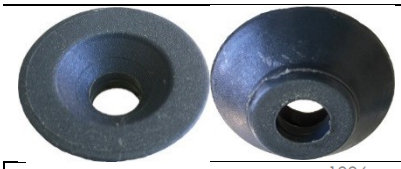


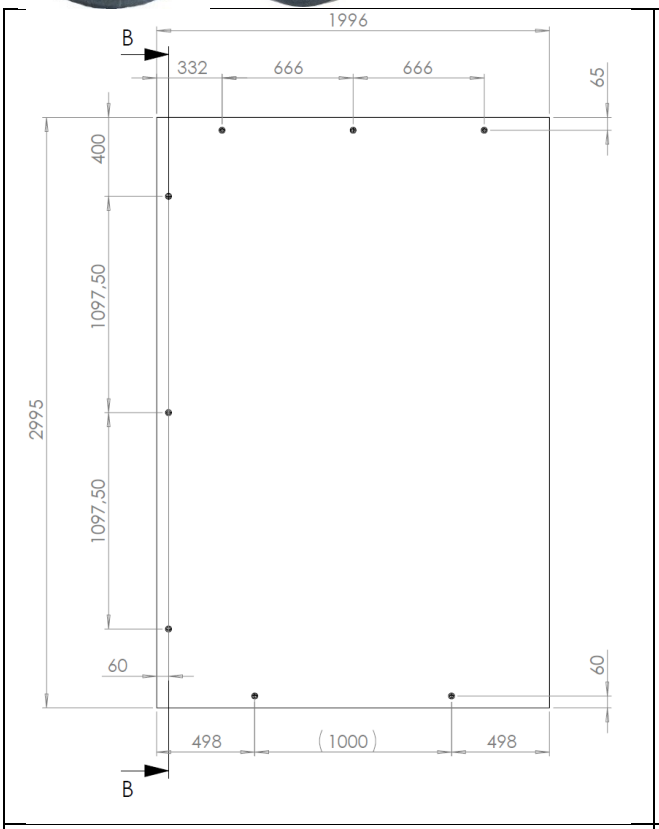
DIN 7991-8*35 Stainless-steel A4

DIN 985 + DIN 1587 M8 Stainless-steel A4

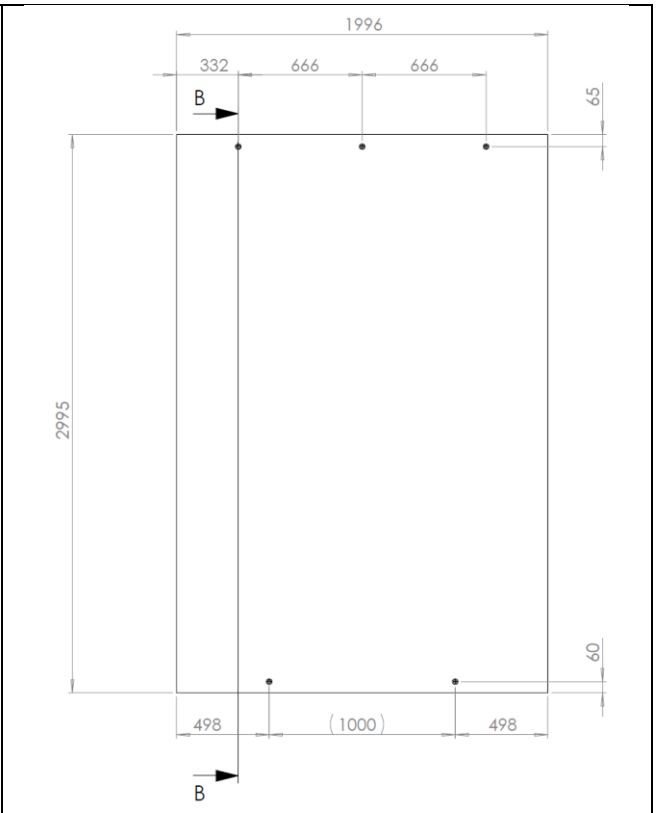
DIN 9021 M8 Stainless-steel A4

Polyethylene cone

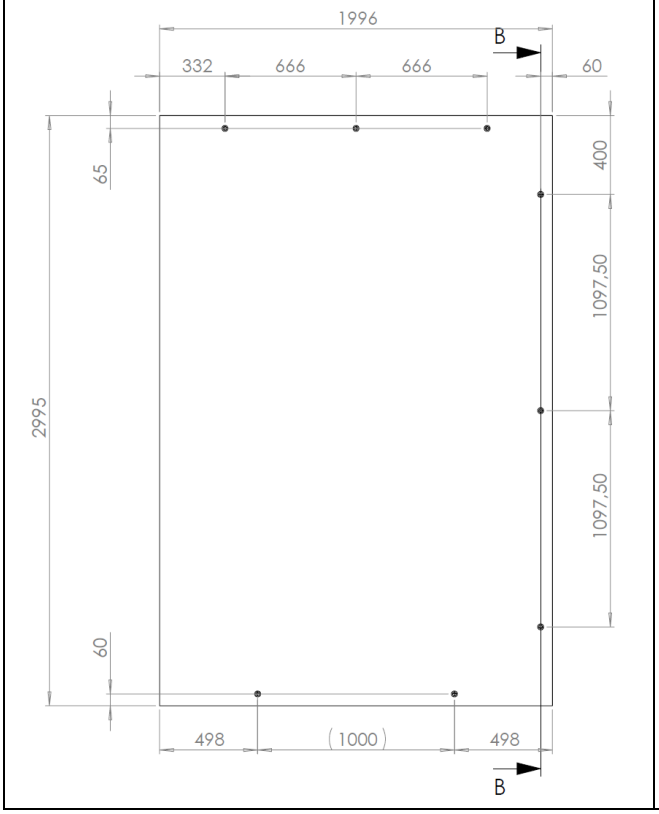


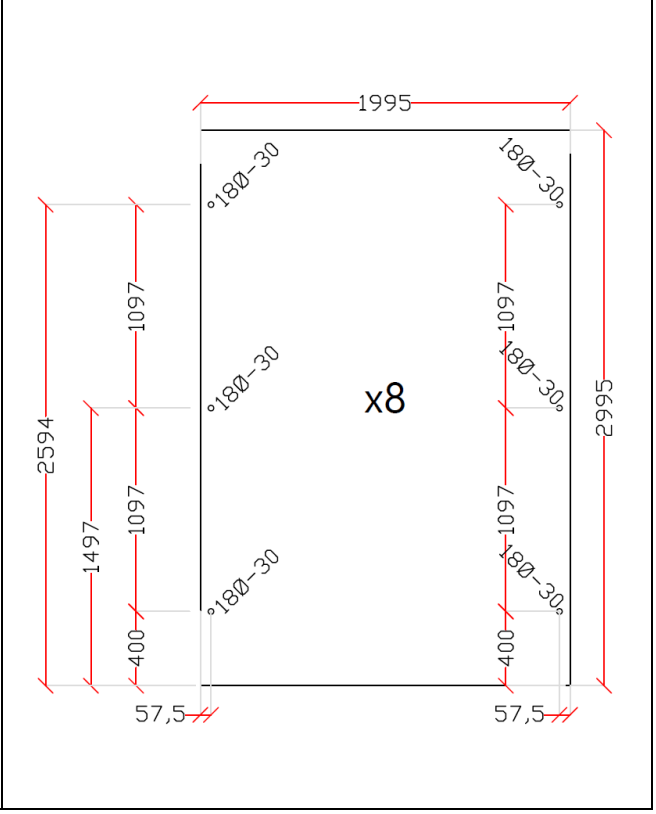


2 units of 12 mm glass (left)



6 units of 12 mm glass (central)





2 units of 12 mm glass (right)	8 units of 10 mm glass (sides)

FINAL TREATMENT

The set of pillars and meshes 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.

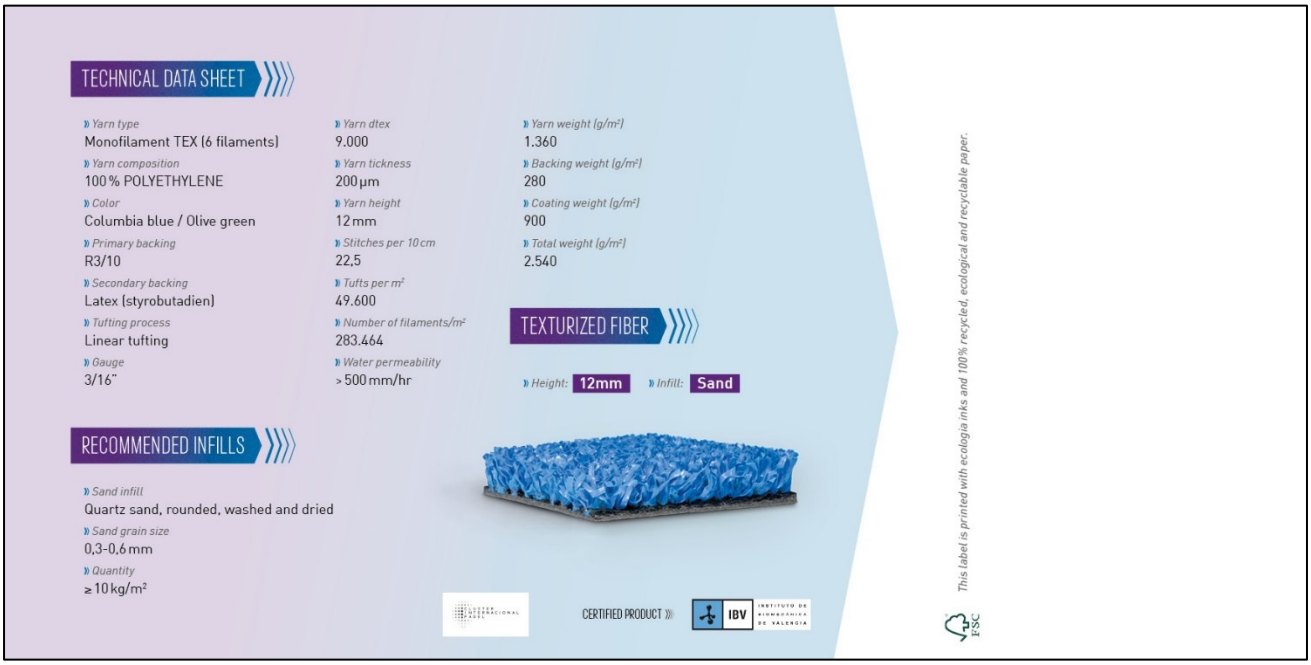
Automated painting chain scheme

01
02
03
04
05
06

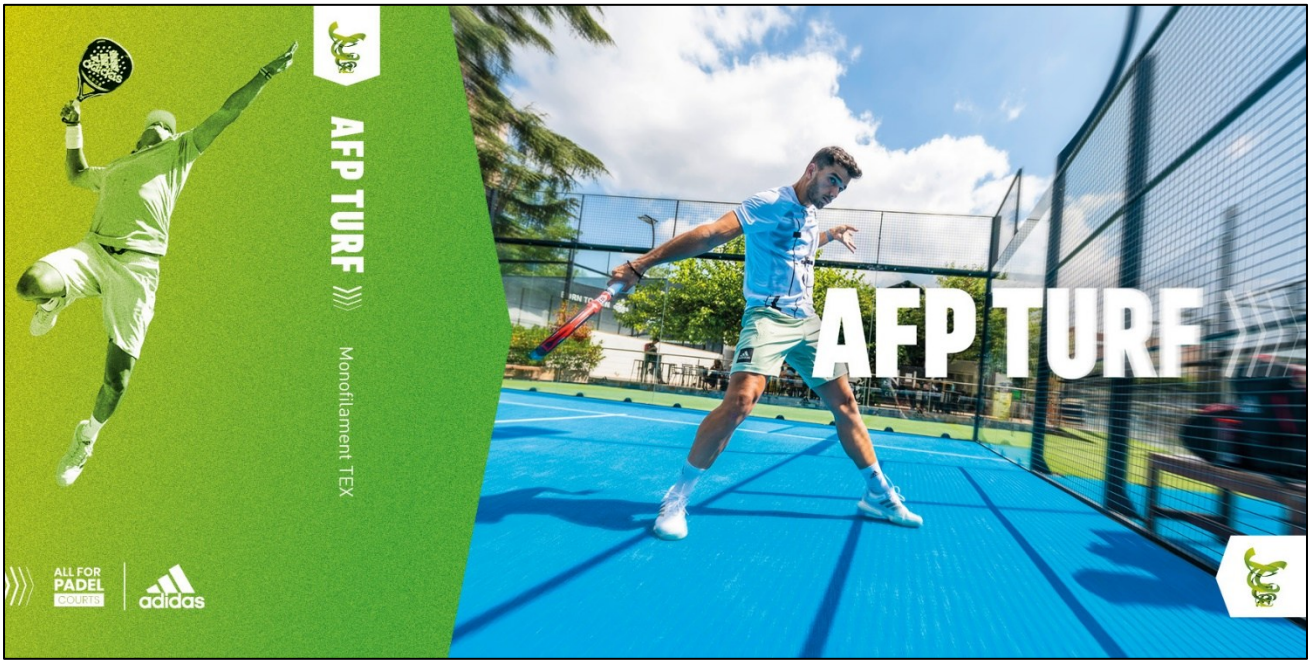
For more details, please consult our document "Recommendations of final treatment for Padel courts according to durability and corrosivity (ISO 12944-1)".

AFP TURF

AFP TURF
Monofilament TEX
ALL FOR PADEL COURTS
adidas
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 (styrobutadien)
Tufting process
Linear tufting
Gauge
3/16"
Yarn dtex
9.000
Yarn tickness
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
IBV
This label is printed with ecologia inks and 100% recycled, ecological and recyclable paper.

AFP TURF



TECHNICAL DATA SHEET

Yarn type: Monofilament TEX (6 filaments)	Yarn dtex: 9.000	Yarn weight (g/m²): 1.360
Yarn composition: 100 % POLYETHYLENE	Yarn tickness: 200 µm	Backing weight (g/m²): 280
Color: Columbia blue / Olive green	Yarn height: 12 mm	Coating weight (g/m²): 900
Primary backing: R3/10	Stitches per 10 cm: 22,5	Total weight (g/m²): 2.540
Secondary backing: Latex (styrobutadien)	Tufts per m²: 49.600	
Tufting process: Linear tufting	Number of filaments/m²: 283.464	
Gauge: 3/16"	Water permeability: > 500 mm/hr	

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 IBV

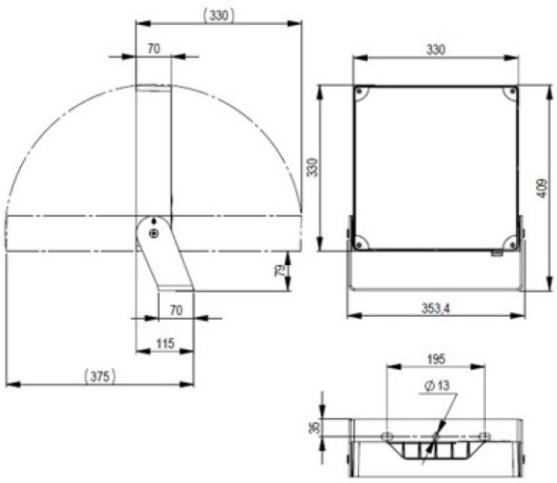
This label is printed with ecologia inks and 100% recycled, ecological and recyclable paper.

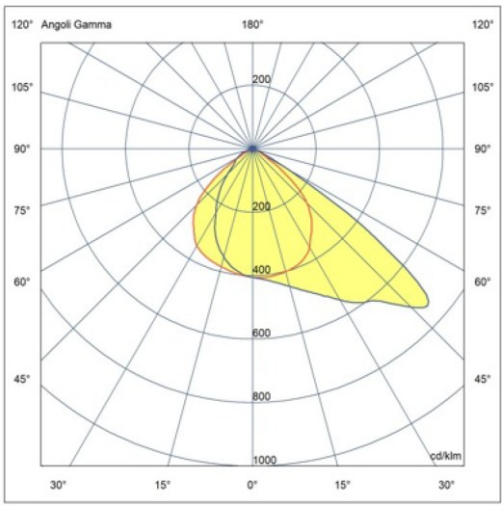
LED SPOTLIGHT

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
Absorved 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
Heigt / 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.

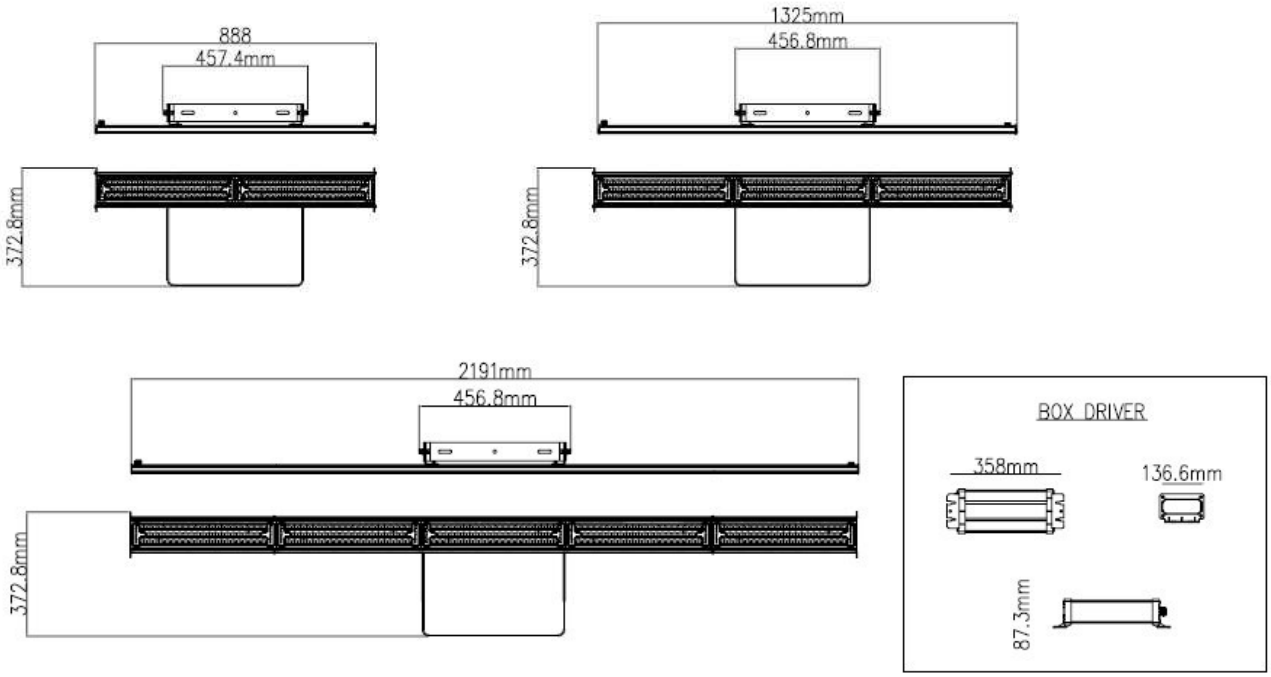
Electrical Information			
Model No.	FR-SP-AFP240	FR-SP-AFP320	FR-SP-AFP500
Power Consumption (W) +/-	240W	320W	500W
Power Supply	SOSEN Driver	SOSEN Driver	DONE Driver
Input Voltage	120-277VAC, 50/60Hz		
Power Factor	≥0.95		
Flicker Factor	<1%		
Surge Protection	10KV line-earth		
Insulation Class	I		
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	0.08㎡ at 0° / 0.11㎡ at 20°	0.1㎡ at 0° / 0.15㎡ at 20°	0.1㎡ at 0° / 0.15㎡ at 20°
IK Rating	IK10		
IP Rating	IP66		
Category of corrosion	C4 (ISO 9223:2012)		

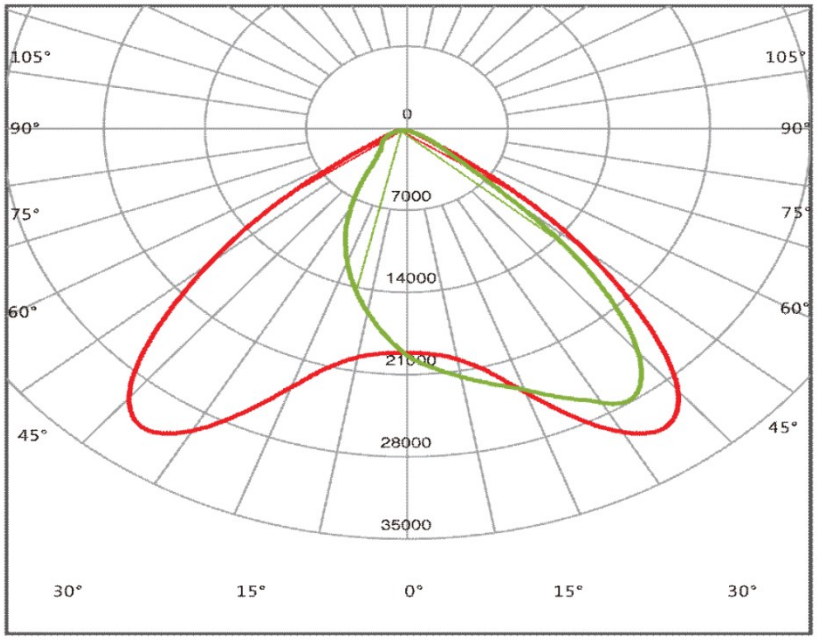
Lifespan and Warranty	
Operating Temperature (°C)	-30 to +50
Life Time of LED @Ta=25°C(hours)	102224-L90B10
	196842-L80B10
Warranty	5 years

Dimensions



Photometry

240W-320W-500W



WARRANTIES

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

Structure	
• 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
• 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.

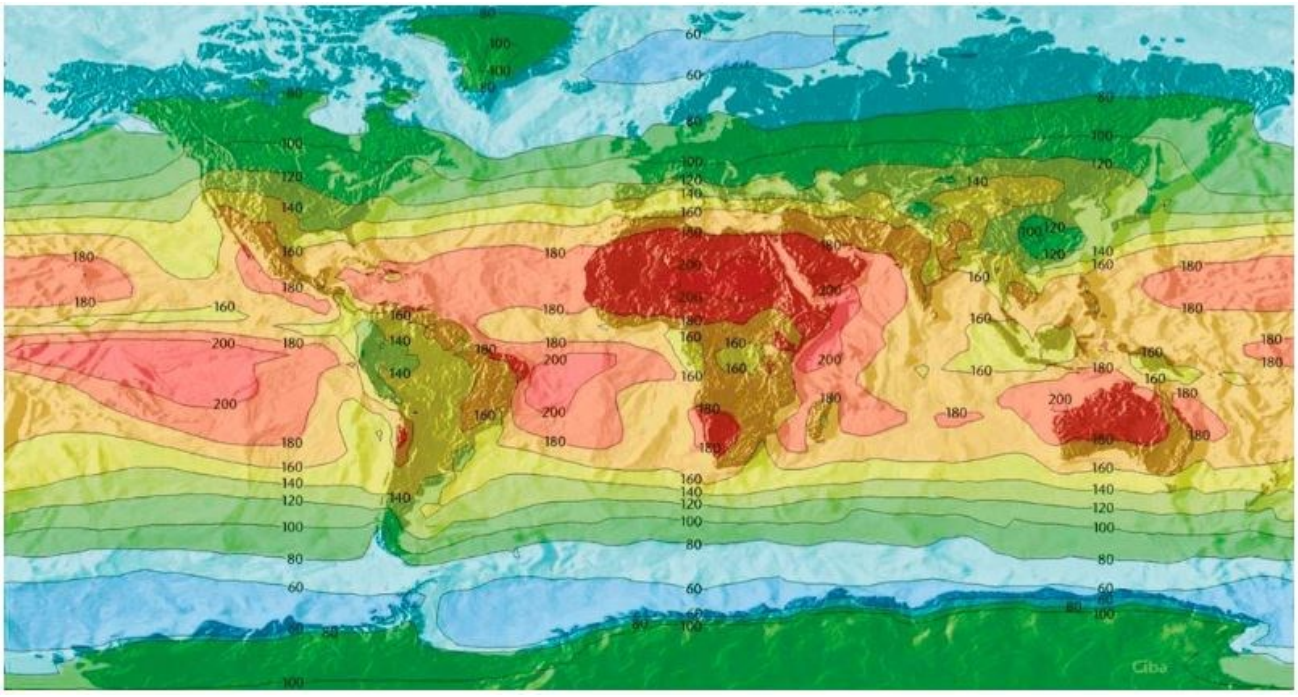
ARTIFICIAL GRASS WARRANTY

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 than 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 adidas Padel courts

CONCEPT	ACTIONS FOR PREVENTIVE AND CORRECTIVE MAINTENANCE	TOTAL ANNUAL	MONTH 1	MONTH 2	MONTH 3	MONTH 4	MONTH 5	MONTH 6	MONTH 7	MONTH 8	MONTH 9	MONTH 10	MONTH 11	MONTH 12
GENERAL	Diagnosis of the court	1	●											
	Delivery of maintenance manual	1	●											
STRUCTURE	Repair of scratches and flakes	3				●				●				●
	Passivating of rusted elements	?	●											
	Tightening of anchor bolts and pillar plumbing	3				●				●				●
	Tightening of screws	3				●				●				●
	Lubrication of sliding doors	3				●				●				●
	Net tightening and system check	12	●	●	●	●	●	●	●	●	●	●	●	●
	Tensioning and fixing of ballcatcher nets	2				●								●
	Structure Cleaning	6		●		●		●		●		●		●
ARTIFICIAL GRASS	Surface Cleaning	12	●	●	●	●	●	●	●	●	●	●	●	●
	Aggregate decompaction	(*)												
	Mechanical brushing and fibres lifting	3				●				●				●
	Sand Replacement	3				●				●				●
	Gluing of grass joints	?	●											
	Herbicide treatment (outdoor courts only)	?	●											
GLASS	Glass Cleaning	6		●		●		●		●		●		●
	Check-up/tightening of anchor bolts and fasteners	3				●				●				●
	Replacemet of nylon cones	?	●											
	Replacement of broken glass	?	●											
	Replacement of neoprene	?	●											
LIGHTING	Test of light intensity level	(*)												
	Check up of earthing	1												●
	Orientation of projectors	(*)												
	Replacement of lamp and projectors	?	●											

●	To carry out along with the certificate of delivery
●	Preventive maintenance actions (to carry out by the property)
●	Corrective maintenance actions (to carry out by the specialist)
●	Actions according to diagnosis and previous quotation accepted. (to carry out by the specialist)
(*)	Under technical supervision (recommended every 3 years)
?	The initial diagnosis will show us the number of actions to carry out annually.

FINAL TREATMENT

Recommendations of final treatment for Padel courts according to durability and corrosivity (ISO 12944-2:2018)

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	Bare steel with Polyester powder coat	Sendzimir steel with Polyester powder coat	Sendzimir steel with Epoxy primer and Polyester powder coat	Sendzimir steel + Blasting Sa 2 1/2 +Epoxy primer + Polyester powder coat	Pillars of aluminum(alloy EN Aw 6063 (Al Mg0,7Si) + lacquered with quality seal Qualicoat. Mesh with plastic treatment.
				Durability 5 - 15 years to first major maintenance.				
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.

Recommended

Not Recommended