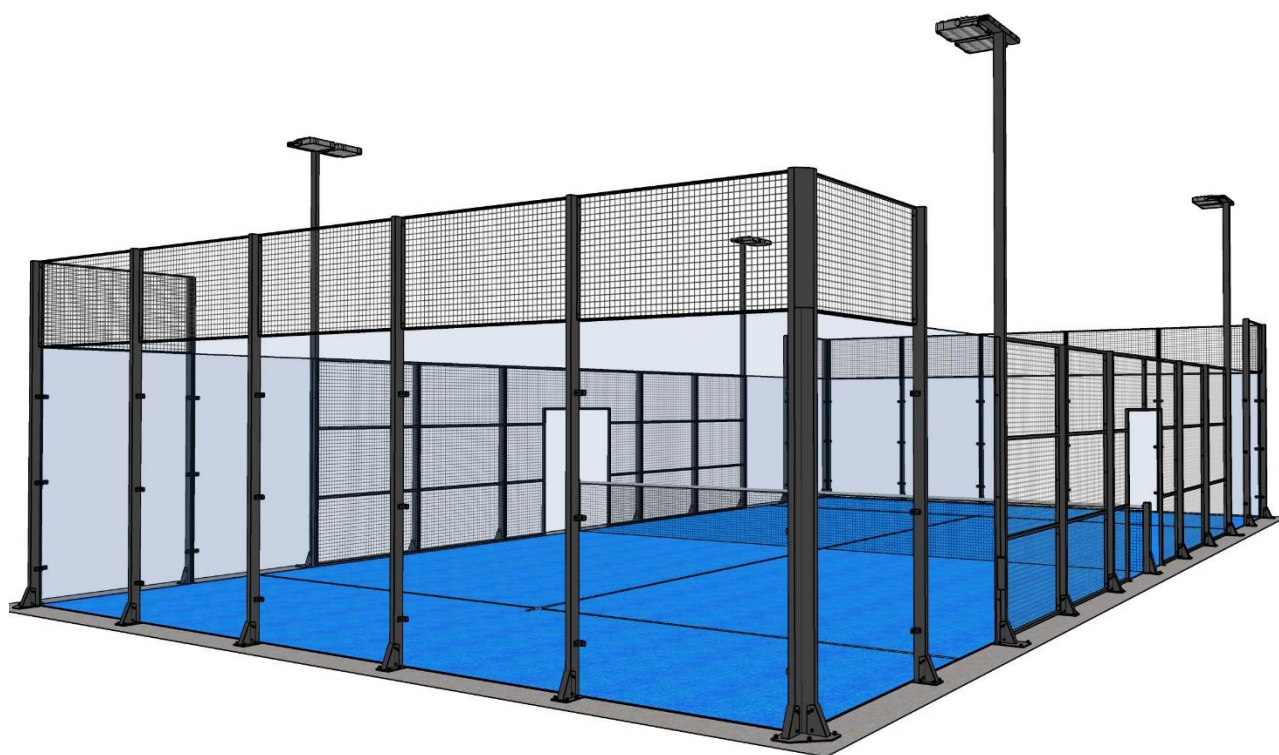


NEW REDSPORT PRO PADEL COURT KIT 2022



EXTENDED DESCRIPTION

THE NEW GENERATION OF PADEL COURTS

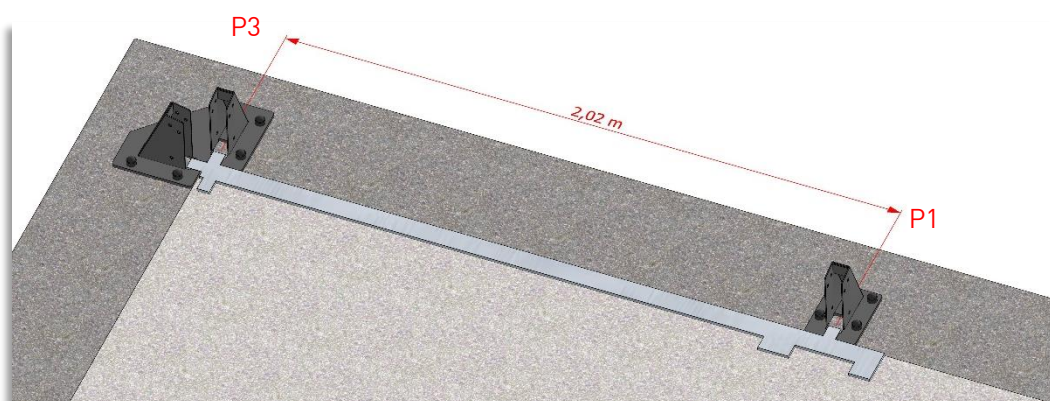
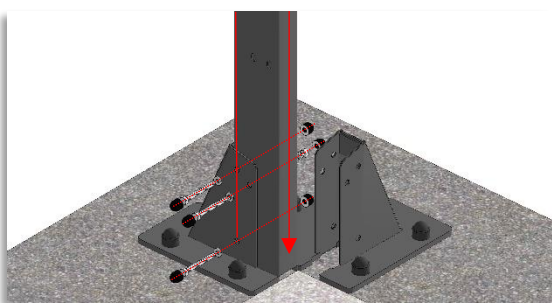
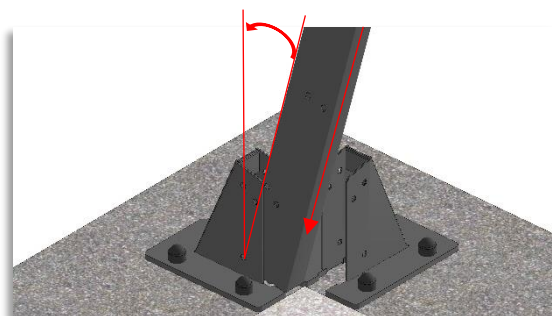
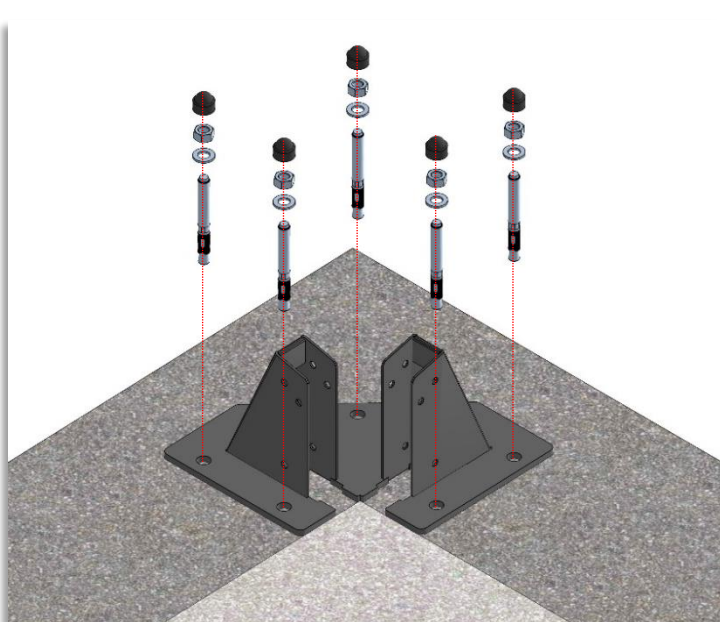
STRUCTURE

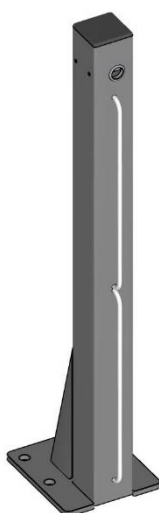
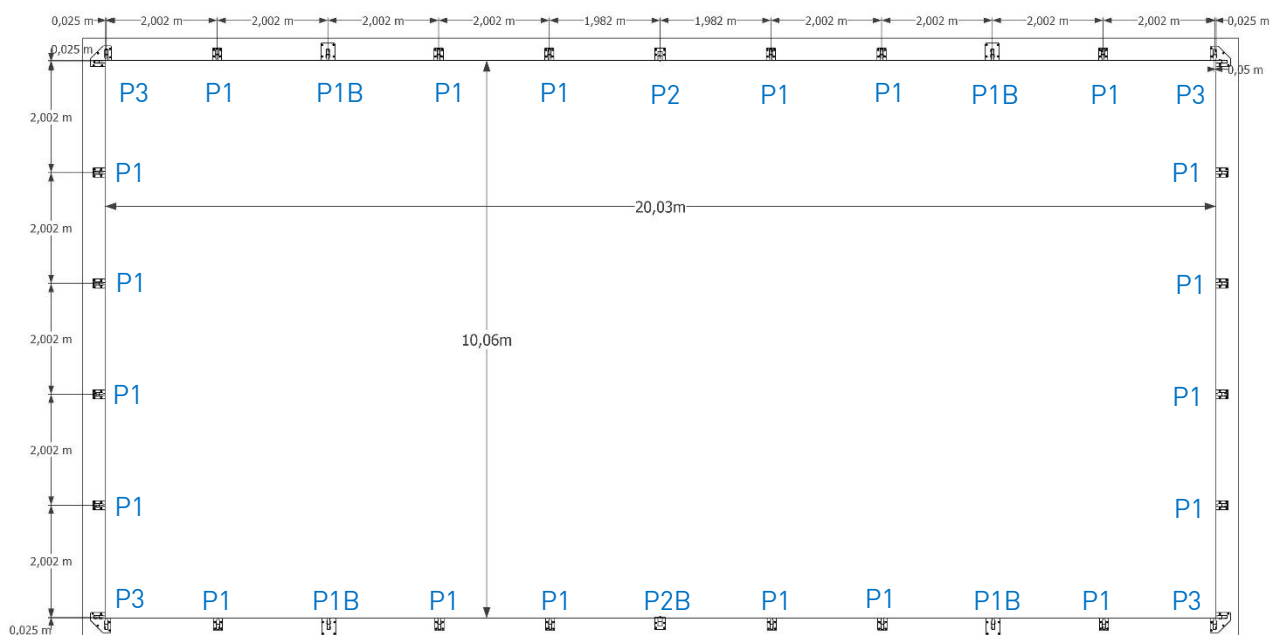
Padel court kit with regulatory measures according to "F.E.P" (Spanish Padel Federation) and "F.I.P" (International Padel Federation), with pillars structure made of 100x50x2 mm hollow profiles, with galvanized steel sendzimir DX51D+Z according to DIN 10.327/10143:

- 8 Pillars with 3,00 m length, 220x165x10 mm anchor plate with 4 anchor points and 215 mm bottom reinforcement.
- 4 Pillars with 6,25 m length, 310x250x10 mm anchor plate with 4 anchor points and 215 mm bottom reinforcement.
- 12 Pillars with 4,00 m length, 220x165x10 mm anchor plate with 4 anchor points and 215 mm bottom reinforcement.
- 4 Double Corner Pillars with 4,00 length, 260x260x10 mm anchor plate with 5 anchor points and 215 mm bottom reinforcement.
- 2 Pillars for net support with 1,00 m length, with 80x80x2 mm profile, 220x195x10 mm anchor plate with 4 anchor points and 80x50x165 mm bottom reinforcement.

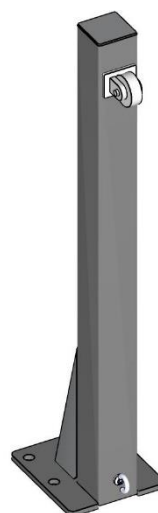
All these pillars have the insertion system on the anchor plates, so you can always remove the water condensation inside the pillar from the support base of the plate.

A great novelty is the separation between anchor plates and pillars, which eases installation and transport. Each pillar must be anchored to the anchor plate with 3 through M10X70 bolts (exclusive AFPC System tested and certified by Applus+).

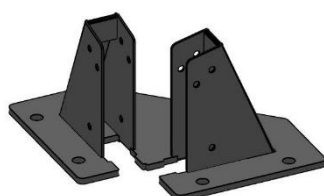




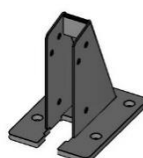
Anchor plate with net pillar
P2



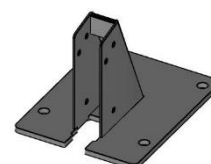
Anchor plate with net pillar
P2B



Corner anchor plate
P3



Anchor plate P1

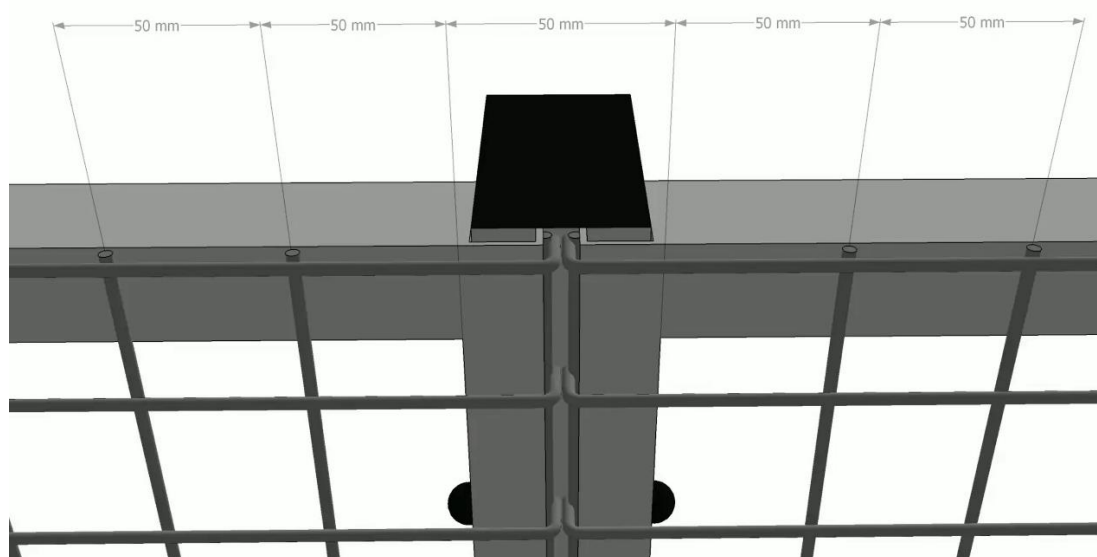
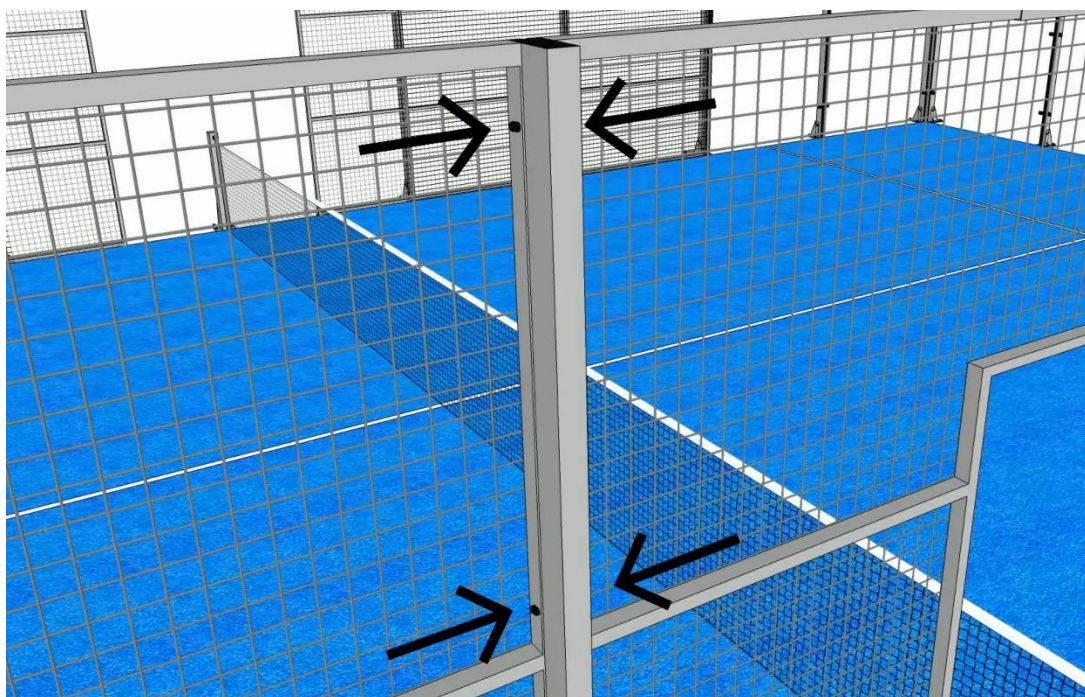


Anchor plate P1B for lighting pillar

The set of mesh enclosure for padel courts, is manufactured with welded steel mesh type 50x50/4 , made with 3.8 mm galvanized wire (EN 10.204:2004-3.1), framed by 40x25x1,5 mm and 40x10x1,5 mm rectangular hollow profiles and folding system in vertical positions, where the player can contact the mesh (anti-injury system), guaranteeing in all cases the continuity of the mesh in front of the pillars and their alignment with the inner face of glass.

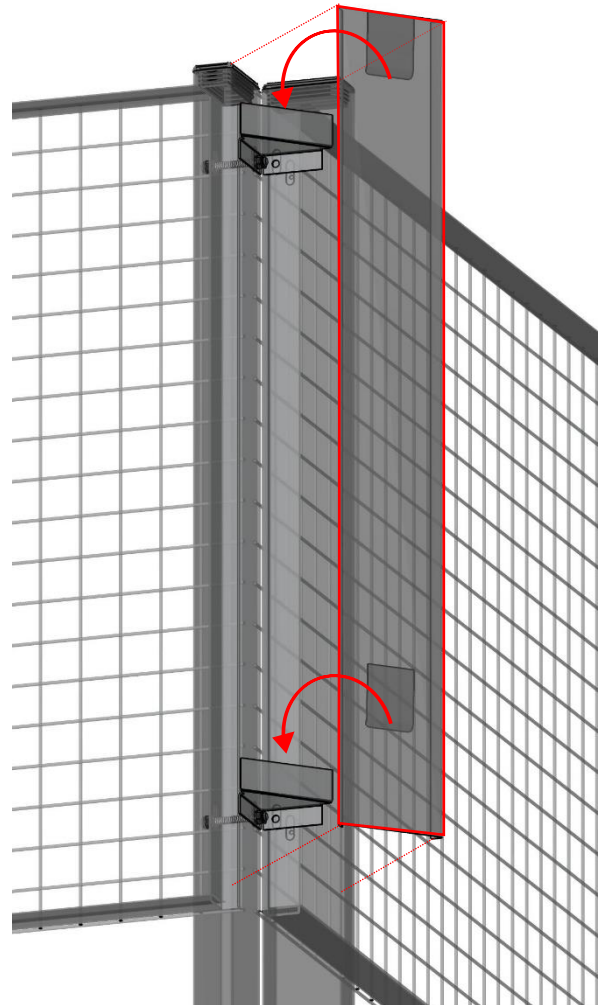
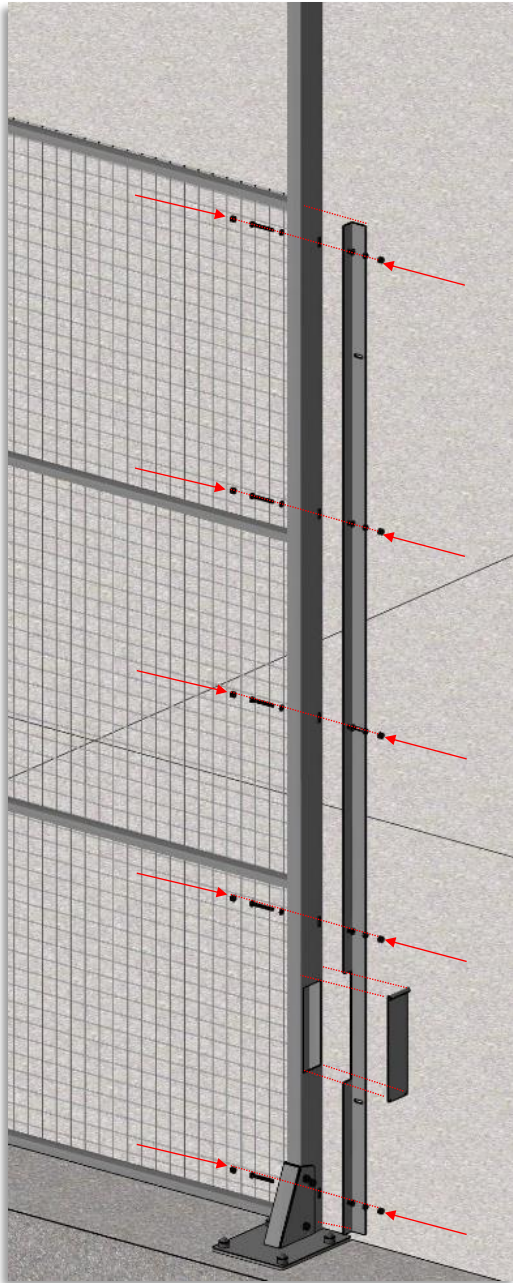
All the welds have been made with a hidden robotized welding system, so no on-site welding is necessary. Also an AFPC exclusive System of folded mesh has been developed, which avoids players' fingers entrapment.

Another new feature is that there is no need to drill holes in the pillars; meshes and are hooked to the pillars with A4 stainless steel through M8X70 screws, nuts and washers, with possibility of height adjustment.



For the lighting pillars, a new glass fixing system has been developed, reinforced with a special 50x40x3000 mm profile. This profile has been shaped according to the inspection hole, which will be provided with a new cover plate attached without screws.

A 1 meter decorative plate will be installed in all the four corners without welding or screws.



Structure and two access openings adapted according to the regulations of the Padel Federation, as well as with the World Padel Tour exit at 2.20 m height.

The maximum wind speed supported according to the calculation based on the Wind Eurocode 1: Action on structures – Part 1-4: General actions – Wind actions [Authority: Per The European Union Regulation 305/2011, Directive 98/34/EC, Directive 2004/18/EC] is km/h (pending to be calculated according to the Applus+ tests to be done in week 28).

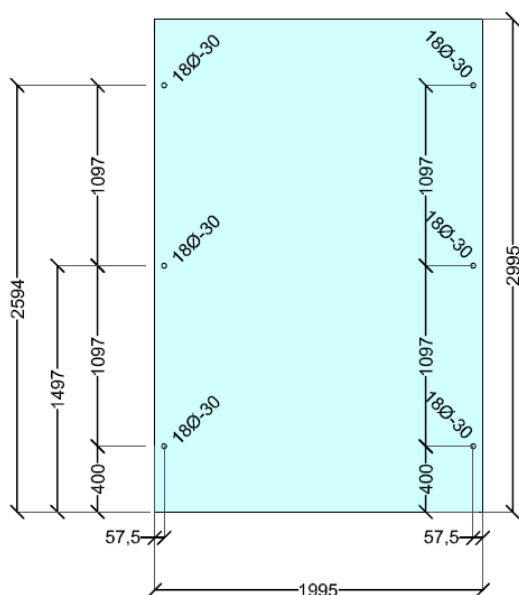
GLASS

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

- 18 Units of 1995x2995 mm.

Every 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): $\tau_v / \rho_v / \rho'_v$	87/8/8
Solar energy transmission/reflection (EN 410): $\tau_e / \rho_e / \rho'_e$	75/7/7



Hardware used for glass fastening



DIN 7991-8*30 Stainless-steel A4



DIN 985 M8 Stainless-steel A4



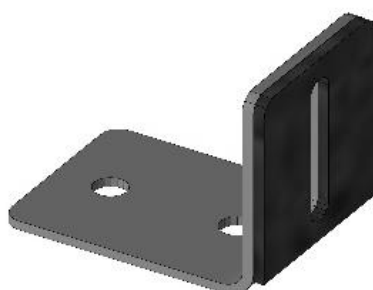
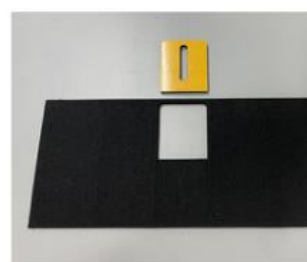
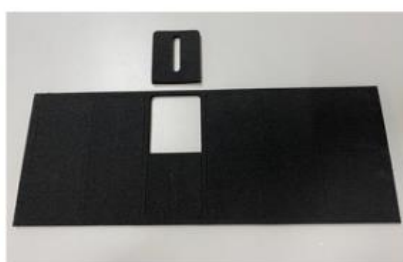
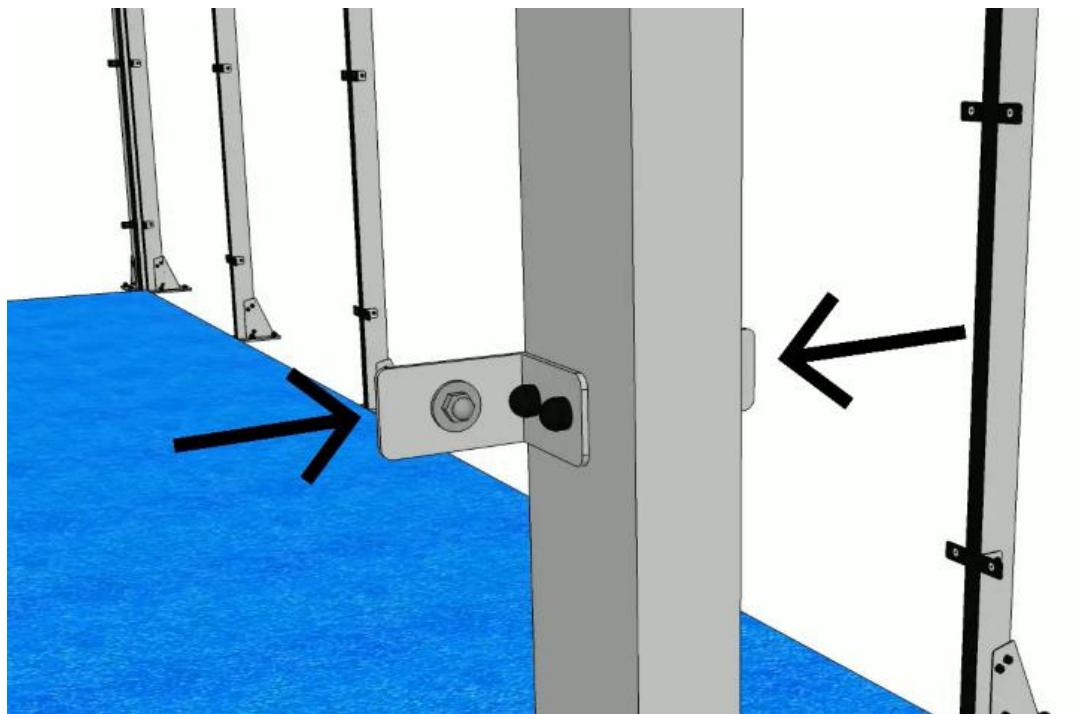
DIN 9021 M8 Stainless-steel A4



Polyethylene cone

The glass is now also hooked to the pillars by A4 stainless steel through M8X70 screws, nuts and washers, with possibility of height adjustment.

Pre-cut EPDM adhesive rubber is supplied for the brackets.

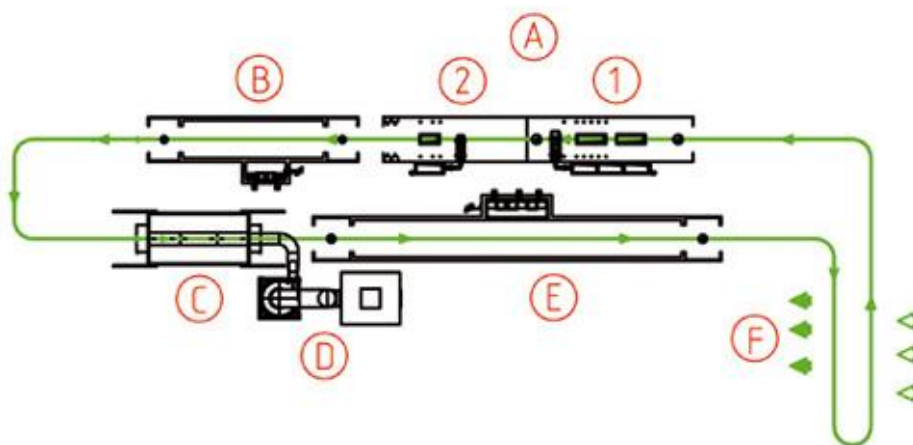


FINAL TREATMENT

The set of pillars and meshes are protected by polyester powder paint System, hardened by oven, following the following process:

1. Pretreatment or surface preparation:
 - Degrease-phosphatasing: continuous spray process with laminar jet. At this stage the piece is free of fats and oils, it is also treated to increase the adhesion of the coating.
 - Washing: rinse of the piece with water sprinkler and last rinse with demineralized water.
 - Drying: cold air blowing and subsequent drying with oven.
2. Application of thermosetting polyester powder coating TGIC-Free Qualicoat P2 Group 0000 Series, based on polyester resin of high resistance to weathering and UV radiation.
3. Polymerization product by rectilinear oven 30 meters long by convection.

Automated painting chain scheme



A: Surface treatment tunnel

1: Degreasing-phosphating in hot

2: Washing at room temperature

B: Moisture drying oven

C: Manual or automatic powder paint application cabin

D: Recovering cycle and absolute filter

E: Paint polymerization oven

F: Loading / unloading area



Possibility of extra anticorrosive treatment for outdoor Padel courts by applying Primer powder epoxy resin and without zinc, based on a system of High Density Crosslinking (HDC). With a satin medium gray color, its surface has a slight etching to improve adhesion between layers with finishing products. This technology provides excellent adhesion to the substrate, very good mechanical properties and high corrosion protection against atmospheric conditions and environmental agents.

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

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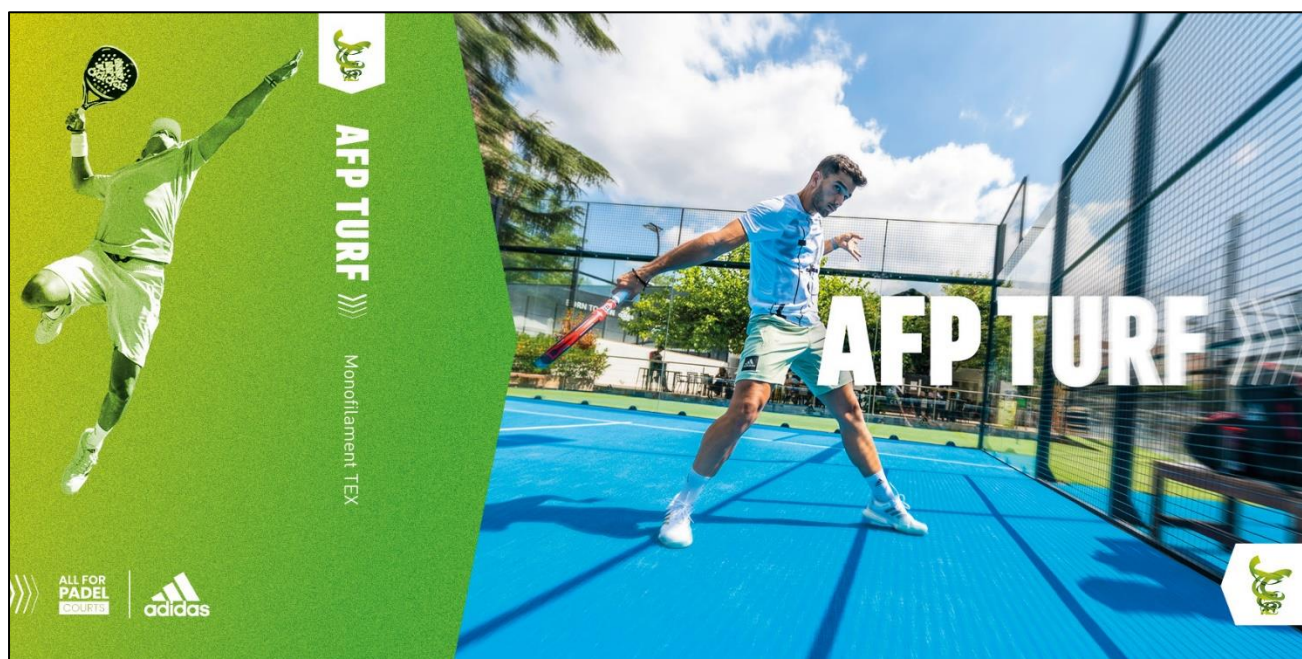
All anchor plates and net-posts have cataphoresis treatment. Cataphoresis, also called electrophoresis deposition (cationic electrophoresis), is a surface treatment that consists of electrochemically depositing an epoxy-type coating on a metal part (steel, cast iron, aluminum, magnesium, etc.) This industrial 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.

AFP TURF



TECHNICAL DATA SHEET

» Yarn type Monofilament TEX (6 filaments)	» Yarn dtex 9.000	» Yarn weight (g/m ²) 1.360
» Yarn composition 100 % POLYETHYLENE	» Yarn thickness 200 µm	» Backing weight (g/m ²) 280
» Color Columbia blue / Olive green	» Yarn height 12 mm	» Coating weight (g/m ²) 900
» Primary backing R3/10	» Stitches per 10 cm 22,5	» Total weight (g/m ²) 2.540
» Secondary backing Latex (styrobütadien)	» Tufts per m ² 49.600	
» Tufting process Linear tufting	» Number of filaments/m ² 283.464	
» 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



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



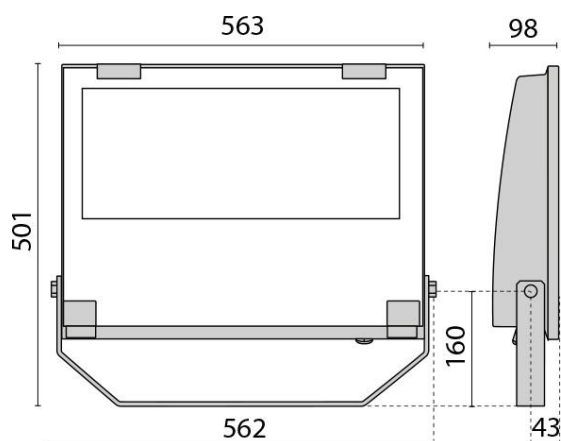
LED SPOTLIGHT



LED floodlight for indoor and outdoor lighting, comprising:

Die-cast aluminum housing chemically pre-treated and painted with polyester powder coating. Flat extra clear tempered glass diffuser. Very high-performance asymmetrical reflector made of 99.99% plated aluminum, polished, oxidized and free of iridescence. Anti-aging silicone gasket. Cable gland M20x1.5 for cables Ø 10- Ø 14 mm. Stainless steel external screws. Fully integrated stainless-steel aluminum spring clips. Powder coated steel bracket. Dimmable ballast on request.

Part number	
Lampholder:	LED
Light Source:	LED
Wattage (W):	306 W
Colour / RAL:	GREY ALUMINIUM
Insulation class:	I
Degree of protection:	IP 66
Kelvin:	5000
Power factor:	$\cos\phi \geq 0,9$
Optic:	ASIMMETRIC WIDE REFLECTOR
Lightsource lumen output:	48590 lm
Luminaire lumen output:	38046 lm
Lifetime:	130000 h
Percent lumen depreciation:	L70



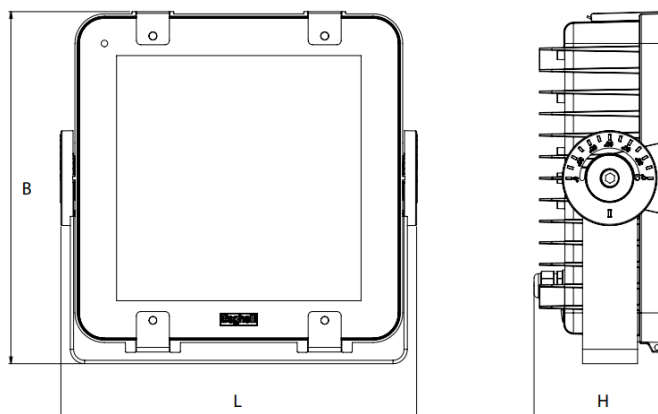
LED SPOTLIGHT



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 a reduced glare with high visual comfort. The excellent mechanical characteristics (IP66-IK09) 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	
Power supply:	230Vac +-10% 50 Hz
Wattage (W):	151 W / 203 W
Colour / RAL:	RAL 7040 grey
Diffuser	Prismatic toughened glass 4 mm thick
Degree of protection:	IP 66 with ventilation valve, IK09
Kelvin:	4000
Power factor:	COS ϕ $\geq$ 0,9
Reflector:	Sheet metal with parabolic development, anti-iridescent, mirror finished, symmetrical or asymmetrical.
Luminaire Flux [lm]	22.680 lm / 27.042 lm



L	B	H
438 mm	434 mm	121 mm

WARRANTIES

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

Structure	
• Pillars, net-posts, anchor plates, meshes and brackets:	5 years
• Net-posts and anchor plates	15 years
Glass	
• Glass:	5 years
Artificial grass	
• Artificial grass	(according to the next table)
Floodlighting	
• Guell projectors:	5 years
• Beghelli projectors:	4 years
Hardware	
• Screws, washer and nuts for fixing glass, pillars and meshes (A4 stainless steel):	5 years
• Metal anchor dowels (zinc-plated):	2 years
Accessories	
• Plastic caps, net system (tensor, roller guide and axis), adhesive EPDM, net and nylon cone for fixing glass:	2 years

The warranty will not be applied if:

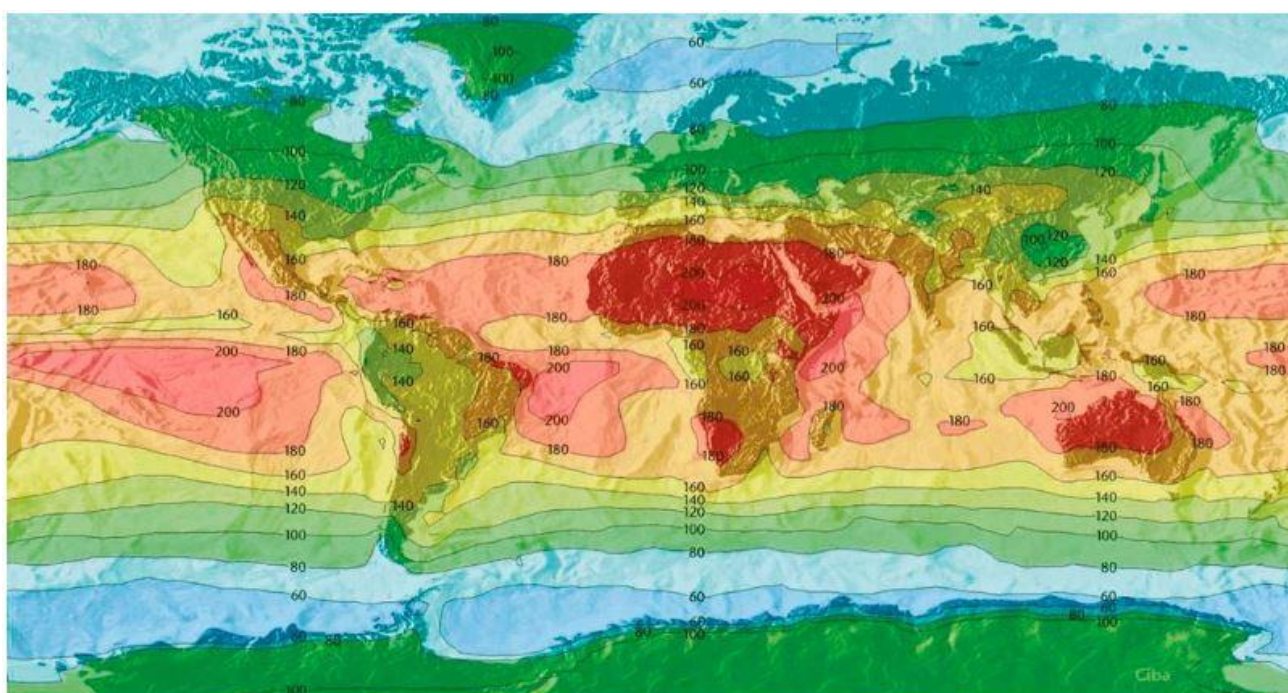
- The recommended reinforcements according to geographical area and type of terrain have not been followed (see attached document).
- The recommendations of final treatment for Padel courts according to durability and corrosivity (ISO 12944-1) have not been followed (see attached document).
- The product 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 installation has not been done according to the assembly manual.
- The product has any type of damage caused by faulty or inadequate use or inadequate maintenance (see attached file).
- 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.
- Cleaning products and methods are used which are not suitable.
- 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

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.

MAINTENANCE

Annual program of maintenance of RedSport 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 plumbing	3				●				●				●
	Tightening of screws	3				●				●				●
	Lubrication of sliding doors	3				●				●				●
	Clamping of net and grabbing system	12	●	●	●	●	●	●	●	●	●	●	●	●
	Clamping of net with prolongations	?	●											
	Fixing hardware of mesh with prolongations	?	●											
ARTIFICIAL GRASS	Surface Cleaning	6		●		●		●		●		●		●
	Soil compactions of aggregates	(*)												
	Mechanical brushing and fibres lifting	3				●				●				●
	Sand Replacement	3				●				●				●
	Gluing of grass joints	?	●											
GLASS	Herbicide treatment (outdoor courts only)	?	●											
	Glass Cleaning	4			●			●			●			●
	Check-up/tightening of anchor bolts and fasteners	3				●				●				●
	Replacement of nylon washers	?	●											
	Replacement of broken glass	?	●											
LIGHTING	Replacement of neoprene	?	●											
	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.

REINFORCEMENTS

Recommended reinforcements for RedSport Pro Padel courts according to geographical area and type of terrain

Recommended reinforcements according to geographical area and type of terrain

Geographic situation	Type of terrain	Wind speed according to "Wind Map of Western Europe"	Speed of calculation of the wind (m/s)	Speed of calculation of the wind (Km/h)	Speed of calculation of the wind with factor of security (m/s)	Speed of calculation of the wind with factor of security (Km/h)	Bigger anchor plates. (310x250 mm) with 6 bolts.	Reinforcements up to 1 meter in pillars only end of courts.	Reinforcements up to 1 meter all the pillars.	3 mm pillars.	Reinforced Mesh	12 mm glass.
	Sheltered terrain	> 6 m/s	32,5	116,9	43,8	157,8	Yes	Yes	Not	Not	Not	Not
	Open plain	> 7,5 m/s	36,8	132,5	49,7	178,9	Yes	Yes	Yes	Yes	Not	not
	At a sea cosat.	> 8,5 m/s	39,0	140,3	52,6	189,4	Yes	Yes	Yes	Yes	Not	Not
	Open sea	> 9 m/s	49,8	179,3	67,2	242,0	Yes	Yes	Yes	Yes	Yes	Yes
	Hills and Ridges	> 11,5 m/s	57,3	206,2	77,3	278,3	Yes	Yes	Yes	Yes	Yes	Yes
	Sheltered terrain	5 - 6 m/s	26,0	93,5	35,1	126,3						
	Open plain	6,5 - 7,5 m/s	32,5	116,9	43,8	157,8	Yes	Yes	Not	Not	Not	not
	At a sea cosat.	7 - 8,5 m/s	36,8	132,5	49,7	178,9	Yes	Yes	Yes	Yes	Not	not
	Open sea	8 - 9 m/s	39,0	140,3	52,6	189,4	Yes	Yes	Yes	Yes	Not	Not
	Hills and Ridges	10 - 11,5 m/s	49,8	179,3	67,2	242,0	Yes	Yes	Yes	Yes	Yes	Yes
	Sheltered terrain	4,5 - 5 m/s	21,7	77,9	29,2	105,2						
	Open plain	5,5 - 6,5 m/s	28,1	101,3	38,0	136,8						
	At a sea cosat.	6 - 7 m/s	30,3	109,1	40,9	147,3	Yes	Yes	Not	Not	Not	Not
	Open sea	7 - 8 m/s	34,6	124,7	46,8	168,4	Yes	Yes	Yes	Not	Not	Not
	Hills and Ridges	8,5 - 10 m/s	43,3	155,9	58,5	210,4	Yes	Yes	Yes	Yes	Yes	Yes
	Sheltered terrain	3,5 - 4,5 m/s	19,5	70,1	26,3	94,7						
	Open plain	4,5 - 5,5 m/s	23,8	85,7	32,2	115,7						
	At a sea cosat.	5 - 6 m/s	26,0	93,5	35,1	126,3						
	Open sea	5,5 - 7 m/s	30,3	109,1	40,9	147,3	Yes	Yes	Not	Not	Not	Not
	Hills and Ridges	7 - 8,5 m/s	34,6	124,7	46,8	168,4	Yes	Yes	Yes	Not	Not	Not
	Sheltered terrain	< 3,5 m/s	15,2	54,6	20,5	73,7						
	Open plain	< 4,5m/s	19,5	70,1	26,3	94,7						
	At a sea cosat.	< 5 m/s	21,7	77,9	29,2	105,2						
	Open sea	< 5,5 m/s	23,8	85,7	32,2	115,7						
	Hills and Ridges	< 7 m/s	30,3	109,1	40,9	147,3	Yes	Yes	Not	Not	Not	Not
Indoor		No wind	0	0	0	0						
		No need for any kind of reinforcement										
Yes		This type of reinforcement is recommended										
Not		This type of reinforcement is recommended										

FINAL TREATMENT

Recommendations of final treatment for Padel courts according to durability and corrosivity (ISO 12944-1)

Corrosivity category as defined in ISO 12944-1	Test Neutral salt spray (h) ISO 7253	Examples of Typical environments in a temperate climate (informative only)	Site of Padel court	Durability LOW (L) 2-5 years to first major maintenance				Durability MEDIUM (M) de 5 - 15 years to first major maintenance				Durability HIGH (H) more than 15 years to first maintenance				Pillars of aluminum alloy EN AW-6063 (Al Mg0.7Si) + lacquered with quality seal	Pillars of aluminum alloy EN AW-6063 (Al Mg0.7Si) + lacquered with quality seal	Pillars of aluminum alloy EN AW-6063 (Al Mg0.7Si) + lacquered with quality seal	
				Bare steel with Polyester powder coat	Sendzimir steel with Polyester powder coat	Sendzimir steel with Epoxy primer + Polyester powder coat	h	Bare steel with Polyester powder coat	Sendzimir steel with Polyester powder coat	Sendzimir steel with Epoxy primer + Polyester powder coat	h	Bare steel with Polyester powder coat	Sendzimir steel with Polyester powder coat	Sendzimir steel with Epoxy primer + Polyester powder coat	h				
C2	SALT SPRAY	Interior: Unheated buildings where condensation may occur eg. Depots, warehouses, sports halls. Exterior: Atmospheres with low level of pollution. Mostly rural areas.	Indoor																
			Covered with Canopy																
			Outdoor																
C3	SALT SPRAY	Interior: Production rooms with high humidity and some air pollution (food processing plants, laundries, breweries, dairies.) Exterior: Urban and industrial atmospheres, moderate sulfur dioxide pollution. Coastal areas with low salinity.	Indoor				120h												
			Covered with Canopy																
			Outdoor																
C4	SALT SPRAY	Exterior: Industrial Areas and coastal areas with moderate salinity.	Covered with Canopy				240h												
			Outdoor																
C5M	SALT SPRAY	Exterior: Industrial areas with high humidity and aggressive atmosphere. Coastal and offshore areas with high salinity.	Covered with Canopy				480h												
			Outdoor																
CSM	1440		Outdoor																
				Durability: Definitions of durability and of durability ranges are given in ISO 12944-1. 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 Hot dip galvanized + blasting steel only for pillars (not for meshes)															