

PADEL COURT “EUROGLASSVISION”



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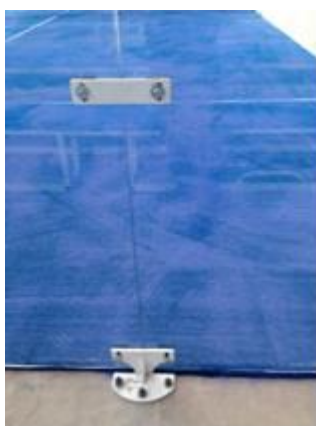
DESCRIPTION

The "EUROGLASSVISION" padel court model designed and developed by Euronix has been elaborated for the practicing of this sport including at the highest level following the corresponding norms and regulations (NIDE 2004 Padel), regulations and norms of the F.E.P. (Spanish Padel Federation) and structural calculations based on the official Technical Building Code (TBC).

As an introduction, the general characteristics and distinguishing properties of the courts can be short summarized as follows:

- Produced using high quality material.
- High resistance and strength of the installation.
- Durability of the installation.
- Quality and aesthetics enabling a perfect architectonic combination with the surroundings.
- Increased vision at the short-end sides of the court. As there are no posts a "panoramic" view is created.

The minimalistic design provides a genuine perception of harmony and beauty without deviating in regards to current normative.



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STRUCTURE

The main structure of the court is made of 120x60x3mm laminated / hot rolled steel profiles with quality S-275-JR and S-235-JR.

The structural system is composed of 18 support posts, each of which is resting on an individual ground socket plate and with reinforcing support plates.



The height of the posts vary between 3,4 and 6 meters and are equipped with angle profiles and corresponding fixing plates for the she secure tightening of the surrounding closure walls composed of either tempered glass or steel framed wire mesh.

The backgrounds of the court are made with a structure specifically designed for offering a fullpanoramic view (without posts in the backgrounds; only post in the corners). Glasses are fixed to the ground with reinforced steel plates and on the upper side to the upper beam. This system gives a robust strength to the whole court.

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STEEL CLOSURE

The material used for this closure are frames of steel profiles, type PDS-26.

The shape obtained through cold rolling process gives it a perfect geometry for the fixing of the electro-welded wire mesh as it is placed on the small flange edge of the profile.

The mentioned electro-welded wire mesh is with dimensions 50/50/4 and fabricated following UNE-EN-10223-4.

The conjunction of these two elements makes up the steel closure of the paddle court, which in turn consist of a total of:

- ❑ 12 frames of 3000x2000 (including 2 crosspieces of 30x30x3 and 30x20x1,5 to secure the rigidity and strength.)
- ❑ 18 steel frames of 2000x1000

Both types of frames are equipped with regulation system for fine-adjustment, levelling and precise fit in respect to the angle profiles of the structural posts and also a perfect vertical positioning in respect to the ground and/or the tempered glass which forms part of the court.

GLASS CLOSURE

The glass closure is composed of 14 tempered glass units of 3000x2000 mm y 4 units of 2000x2000 mm with thickness 10 or 12 mm following the clients requirements. These units are equipped with regulation system for adjustment and come with rounded edges for the glass closure and steel closure to be fixed precisely at the same vertical level.

The fabrication process of the tempered glass is normalised and conforms to the norm **UNE EN 12150-1**, and more importantly obtaining excellent technical characteristics as can be seen in the table below:

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TEMPERED GLASS	
Concept	Value
Rupture stress bending-tensile	Betw. 1300 and 1900 Kp/cm ²
Compressive strength/resistance	10.000 Kp/ m ²
Thermal shock resistance	250 °C

UNION GLASS – STEEL

The contact points between the tempered glass plates and the steel material, are the most delicate places on the paddle court; This is the reason special care and attention has been given when designing and choosing the material to be used at these points.

- ❑ On one side, the contact of the tempered glass with the fixing screws, which are sustaining the glass with the steel structure, is made using high precision **Nylon washers** shaped and adapted for “countersink screws”. The tempered glass is manufactured so that the nylon washers fit perfectly between the screw and this corresponding part of the glass.
- ❑ In addition, the rear sides of the tempered glass plates are supported towards the angle profiles of the steel structure using specially fitted **8mm neoprene rubber pads**, cushioning and absorbing impacts and giving the structure the needed elasticity.

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The choice of neoprene rubber in both the above mentioned cases are due to the excellent properties of the material and the durability and long lifetime even in adverse weather conditions.

NEOPRENE – CR		
Concept	Test method	Value
Color		Black
Specific weight	UNE - 53.526	1,65 gr / cm ³
Hardness	UNE - 53.130	70 Shore A
Tensile strength	UNE - 53.130	120 Kp / cm ²
Elongation	UNE - 53.130	300 %
Resistance to accelerations		28 Kg / cm
Temperature range		Betw. -35 y +105 °C
Resistance to acids	ASTM 1 (D.vol)	-2/+8 %

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CONNECTING AND FIXING ELEMENTS

All the fixing elements are of stainless steel of quality A2-70, corrosion resistant under Normative UNE-EN ISO 3506 part 1,2,3. with the following technical characteristics:

CONNECTING/FIXING ELEMENTS	
Concept	Value
Quality	A2-70
Tensile strength	700 N / mm ²
Elasticity limit	700 N / mm ²
Elongation rupture	0,4 d

The fixing of the structural posts on the perimeter concrete block shoulder are done using heavy load foundation bolts of M14x120, supplied with washers to facilitate the levelling of the posts.

FINISH

Painting of Steel Elements

All steel parts can be treated with a polyester powder coating finish. This is done following the specifications of the quality mark QUALISTEELCOAT.

To obtain the approval of a quality system following the **QUALISTEELCOAT** norm of powder coating, the following tests are done:

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Test	Norm
Gloss	ISO 2813
Coating thickness	NEN 5335
Adhesion	EN ISO 16279-2
Impact test	EN ISO 6272-1
Polymerization test	---
Mortar resistance	ASTMD 3260
Boiling water resistance	---
Salt spray test	ISO 9227
Humidity resistance in constant atmosphere conditions	ISO 6270:1980
Colour resistance test	ISO 3231
Accelerating ageing test	EN ISO 11341
Natural ageing (Florida)	ISO 2810

Hot-dip galvanized steel elements

This process is realized following the norm UNE-EN ISO 1461-2009.

TECHNICAL DOCUMENTATION

At handover and installation of the paddle courts the following documentation will be provided to the client:

- Conformity declaration of the installation
- Technical specifications of the material used.
- Detailed drawings of the installation.
- Euronix Quality certificate.

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