



TECHNICAL DATACARD

IRONCORE II

The Ironcore II padel court model is manufactured with leading quality materials, in accordance with Spanish Padel Federation regulations.

THE IRONCORE II PADDLE COURT IS COMPOSED OF:

Metal perimeter structure consisting of:

- 32 100x60x2mm S235JR steel structural pillars, reinforced at the bottom with gussets.
- 4 pillars of 6mt height in 100x60x2mm to hold the light projectors.
- 36 anchor plates in S235JR steel of 300x150x10mm, which will be fixed by mechanical anchors of 145x14mm to the foundation footing of the slab.
- 14 electro-welded mesh frames of 50x50x4mm and size 2000x1000mm.
- 6 electro-welded mesh frames of 50x50x4mm and size 3000x1680mm.
- 2 electro-welded mesh frames of 50x50x4mm and size 1920x900mm.
- 120x10mm stainless steel through screws to join the mesh frames to the pillars (protecting them with metal washers).
- 4 metal plates of 4000x150x2mm to protect and beautify the corners.
- The entire metal structure receives an anti-corrosion treatment consisting of several processes for washing the steel, applying anti-corrosion resins and, finally, lacquering in the chosen color with 100-micron thick epoxy resins.

The court can be paint in any RAL color. Furthermore, pillars can be paint in one color and meshes in another.



The structure has been designed taking into account wind resistance, aesthetics and speed of assembly (or disassembly), and the structure is completely self-supporting.

Tempered glass consisting of:

- 10 mm thick tempered glass, bringing a total of 18 sheets measuring 1995x2995 mm. Thermally tempered glass according to Standard UNE-EN-12150-2, and heat soak according to Standard UNE-EN-14179-2.
- Black 60x4 mm EPDM seal (ethylene propylene), with outstanding performance under inclement weather and temperature conditions. Fully sealed to avoid contact between the glass and the metal structure.
- PVC bushing to be installed in the countersunk holes of the tempered glass. Its purpose is to avoid contact between the glass fixing screws and the glass.
- Stainless steel glass fixing screws. DIN M8x30 countersunk Allen screws.

Artificial grass

- Fibrillated grass (polyethylene), 42.500 needles per sqm, 7.000 dtex and 12 mm high. Outstanding performance for playing padel. Colour. Manufactured by Mondo Ibérica.
- Two-component joining strip and glue to install the grass.
- 3500 kg of silica sand with grain size 0.2-0.5, specially for padel. Compliant with Standards UNE-EN 14836 and 13864.

LED projectors

- 4 200W LED projectors with IP66 rating, and +/- 30.653 lumens per projector. Compliant with Standard UNE-EN 12193 on "Lighting for sports facilities Type III" Em 211 lux.

