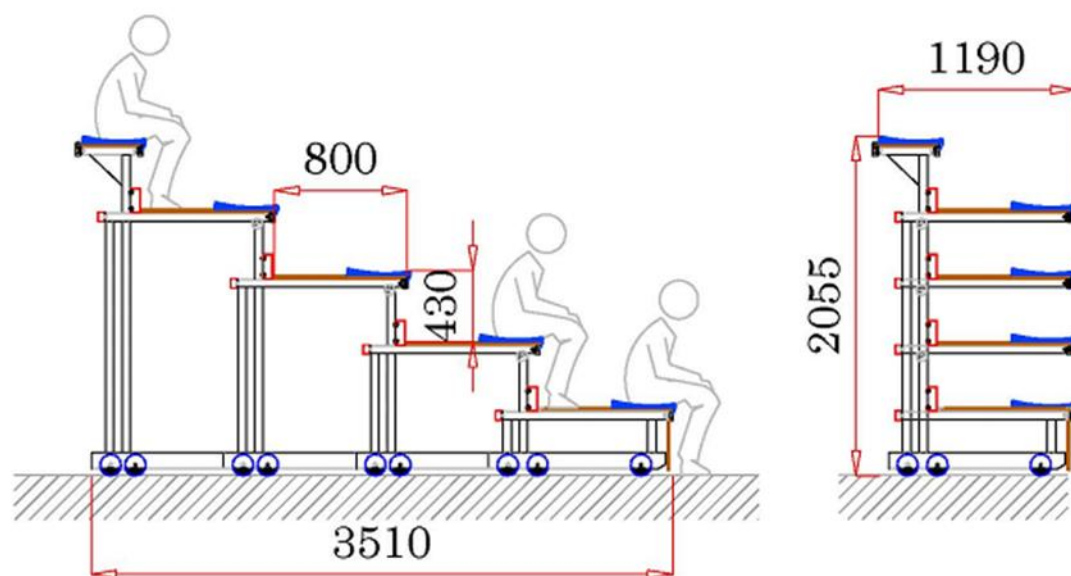


## TECHNICAL FEATURES TRIBUNES TP SPORT

### REF. GATEL 110

WITH INDIVIDUAL SEATS TP SPORT S94SG

### GATEL110 GRADERIO TELESCOPICO ASIENTOS CORRIDOS MONOBLOQUES SIN RESPALDO



## TECHNICAL FEATURES

Telescopic tribune with manual or automatic power

The TP SPORT telescopic tribunes have been designed so they adapt to all type of multipurpose rooms, cultural centres, theatres, auditoriums, etc. They maximise the minimum space in order to get the maximum seating capacity achieving the most disposition and the optimisation of the room.

The modular concept of the TP SPORT telescopic tribunes, allows adaptability and minimal impeding that enables to create specific spaces in a short time, answering to the customer's requirements, keeping always with the highest quality standards in the manufacturing processes achieving the ISO 9001:2008.

Telescopic tribune platform is constructed according to DIN 1055 y 18032, bearing a vertical load of 500 kg / m<sup>2</sup>. In the isles and steps it bears a vertical dynamic load of 7.5 kn / m, at each row pavement level it bears a horizontal load of 3.5 kn / m and a horizontal stress in both directions equal to 1.2 of the vertical load to consider the movements of the spectators. All metal structure is manufactured with steel JR S-235 according to the standard DIN 18800 Part 7.

## SUPPORT STRUCTURE

Metallic structure able to support 500 Kg / m<sup>2</sup>, built with steel cold-rolled carbon quality S235JR. Joints are arc-weld with continuous thread and screwed with steel screws printing quality 5 / 6 DIN 985. Profiles with no sharp edges according to regulation UNE-EN 10025.

The pillars are reinforced with double profile and joined by spacers, ensuring optimal modulus of inertia and perfect rigidity of load-bearing elements. Rear and intermediate bracing profile large enough to ensure lateral stability of each platform. Closed U shaped cold rolled rear profile of 60 +180 +60, 4 mm thick. 80x30 extruded aluminium front profile, which gives a perfect finish to the plywood and aluminium profile joint.

Independent platforms with coupled guides at the top with wheels, which slide across the lower platform, reaching the last platform to be installed according to design of the stands.

## WALKING PLATFORMS

Platforms made of special cold rolled profile, placed on the inside with special holes for securing the pillars and lower supports and horizontal guide wheels. Special front profile made of extruded aluminium 80 x 30 with special slots for attaching plywood and install the screws of the horizontal supports, running all on the inside. Floor, platforms and steps made of plywood WBP type 18 mm thick, nonslip, with a density of 620 kg / cm<sup>3</sup> and modulus of elasticity of 35000kg/cm<sup>3</sup>. The top side is nonslip and painted red-brown, a weight of 340grs / m<sup>2</sup> and it has undergone TABER 1350Rpm abrasion tests with M2 fire retardant treatment, framed around its perimeter by a metal profile in the rear and the front inlays inside the extruded aluminium profile giving a high level of finishing.

## ELEMENTS OF MOVEMENT

Each platform level slides independently by using special wheels of 125 mm diameter by 40 mm wide. These wheels include needle bearings to avoid friction and facilitate movement. They are made of tire tread compound with anti-abrasive polypropylene of 98 shore A type. The required amount of wheels is placed so that the load transfer is smooth and does not exceed 80 kg per unit.

## PROTECTIVE RAILING

Each platform level slides independently and detachable. Railing height 1000 mm and width to length of platform, built with round tube 40mm with the two top corners curved upright with rounded profiles of 8 mm, no gaps through which spectators could pass. The perimeter is free from sharp edges or cutting elements. Ready to be anchored with anchors bolted to the rear profile and the side of the platform.

The protective railing it is located on top of the tribune but without standing out from the width of the platform, will have to be mounted, and demounted each time the tribune moves.

## SECURITY SYSTEM

Security system with metal caps and automatic triggers, which gradually closes by gravity as the stands unfold, preventing accidental folding of the stands once deployed and occupied by spectators.

## STEPS

Access steps are 1100 mm wide, and with variable high, made with similar materials to the platforms, finished with extruded aluminium 80 x30 mm.

## MECHANIZATIONS OF THE AUTOMATIC SEAT FOLDED

Mechanization of the seat supports for folding and unfolding are carried out by gas shocks, triggers, springs, nylon wheels with metal supports and guides with stops to be anchored to the rear profile of the stand.

Steel fasteners and bolts of quality 8 / 8.

The mechanisms could be automatic or manual. The automatic mechanism conducts the folding and the unfolding of the seats at the same time as the movement of the tribune.

## FINISHINGS

All metal parts are cleaned properly before the finishing process and protected against corrosion, painted with epoxy electrostatic powder paint in the oven, with 90 microns of protection in colour black matte finish.

## WARRANTY

Stand manufactured part by part in our factory and assembled on site using steel bolts of high quality 5 / 6 DIN 985. Installation carried out by our own specialized staff which allows personalized technical assistance for each installation, giving a 2 year warranty against faults in manufacture or assembly.

## MAINTANACE

For the maintenance of the TP Sports telescopic tribunes, we offer engine revisions, wheel change and the elements in bad conditions, a revision of the cables, screws and the lubrication of the whole ensemble.

## Options:

### PROTECTIVE RAILING IN TELESCOPIC TRIBUNES

Alternatively, we can also offer protective railing for telescopic tribunes, which is placed in the laterals and stands out 200mm and it will be automatically folded together with the tribune

### FLOOR

#### VINYL FLOOR

The vinyl floor is placed on top of the platforms and on the steps and it has 2mm thickness and double layer with elastic, thermal and anti-sliding properties thought for a heavy traffic. Placed on top of a DM 16mm thickness support.

Technical characteristics:

Fire reaction: EN 13501-1: Class Bfl-S1; ASTM E648: Class 1

Anti-sliding security: EN 13893: Class DS; AS/NZS 4586 R9: R9

Resistance to the footfall: EN649: Group M

Attached to the DM wood through 16L+1 c+6 in = 22

#### PARQUET FLOOR

The parquet floor defined by the customer is placed on top of the platforms and on the steps. Placed on top of a DM 16mm thickness support.

#### CARPET FLOOR

High density compressed carpet floor, especially suited for the use of large events with public attendance.

Rolls: 2.02 x 60 meters

Weight: 300gr/m<sup>2</sup>

Composition: 100% Polypropylene

Flame retardant: Bfl-S1 Official Certificate

### LATERAL ENCLOSURES

#### PVC LATERAL CURTAIN

Disposition of PVC lateral curtains in colour black or grey with low counterweight and with Velcro top hook.

#### FIRE RETARDANT LATERAL CURTAIN

Dispositions of fabric lateral curtains. The colour can be chosen from our colour sample (being able to match it with the colour of the seats). With low counterweight and with Velcro top hook.

## FRONTAL DM WOOD

Frontal enclosure in wood with average density type DM, attached to the front profile and with a metallic cold rolled profile in shape L. The wood is attached with aluminium screws or rivet and lacquered finished.

## EMERGENCY SIGNALING

Emergency signalling follows norm EN 1838 of lights and emergency lighting. For the telescopic tribune steps lighting, we place 2 or 3 units per each step leds type plotter, installed on the top, can be in white, red, blue or green, in 24V, 30 minutes autonomy and with a power unit and a transformer included. The system is prepared to be connected to the emergency system of the room.

The electrical installation is placed in the low platforms from the first one to the last one connected with cross cable.

## ENGINE SPECIFICATION

Motorization of telescopic stand, by using geared electrical engines (220-380 V), placed on the first platform with wheels of large diameter 200 mm, with anti-abrasive tread pattern. This includes electrical switching box with all the security features included, removable control panel with 8-10 meters of cable, coupled to the first row using HARTING connector with folding cover, enabling input-output operations, and carrying a built-in emergency stop. Electrical installation from engine to the rear of the stands is made by TP (the rest of the installation is carried out by the customer).