



Technical specifications

› Timber components

- Seat structure made of beech wood and high-density wood.

› Structure

- Base of steel plate.

› Polypropylene

- Material: Copolymer Polypropylene 30% GF.
- Tensile strength as per ISO 527-2: 50 Mpa.
- Tensile Modulus as per ISO 527-2.1 : 3600 Mpa.

› Paint

- Electrostatic polyester powder.
- Coat thickness: 70-80 microns.
- Grid adherence according UNE-EN ISO 2409: 100%.

› Cut foam (Polyurethane foam)

- Seat density: 50 Kg/m³.
- Backrest density: 50 Kg/m³

› Varnish

- Material: Bicomponent PU Varnish (water or solvent based)

› Upholstery

- Fire rating standards:
 - Spain: UNE-EN 1021 Parts 1 and 2.
 - France: NF D 60-013.
 - Italy: UNI 9175 Class 1.IM.
 - Germany: DIN 66084.
 - USA: CAL TB117.

› Fire rating standards on finished product :

- BS 5852. Clause 12. Ignition sources 0,1 and 5 (with approved fabric).
- USA: CAL T.B. 133 (with approved fabric).

› Resistance and durability classification

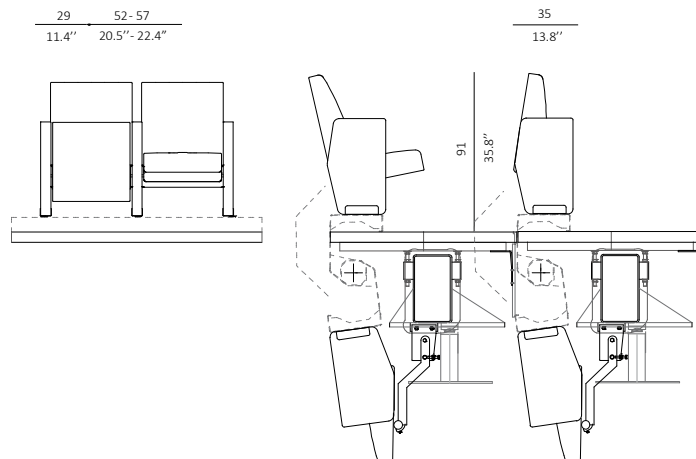
- UNE-EN 12727 Level 4 (Severe use).

› Registered Community Design

- Figueras has the IP rights protection for this product in EU as Registered Community Design by virtue of model number [007432372](#).

› Eco Design ISO 14006 Certified

General dimensions



Aptum 248

Descripción General

- Armchair exclusively designed for its application in the Mobile Rotation System. Of great simplicity, with a design of timeless lines and great versatility, designed for theaters, auditoriums and multipurpose spaces.

It is distinguished by its great flexibility thanks to the material characteristics of its components, providing greater ease in the variation of its dimensions and inclinations, for a better adaptation to the different configurations of the room.

There are several product versions and multiple finish options, favoring the customization of the chair.

Together with the rest of the models of the Aptum family, it provides optimal equipment for rooms with different configurations and uses.

› Seat

- The seat is manufactured with an inner frame of beech wood and high quality interwoven elastic webbing and covered with open-cell polyurethane foam, flame retardant 50 kg/m3 and CFC-free. This technology allows the uniform distribution of body weight, providing greater comfort and elasticity.

The upholstery is made by master upholsterers, who adjust it to the shape of the seat.

Seat return is automatic by means of a double ball-and-socket joint system with springs and Controlled Soft Rise Technology (CSRT), which avoids annoying noises or knocks when the seat returns to its rest position. Slow and silent seat return, ensuring perfect seat alignment.

› Backrest

- The backrest is made with an inner frame of beech wood and elastic mesh, covered with open-cell polyurethane foam, fireproof 50 kg/m3 and CFC-free.

- Its design incorporates a lumbar support that provides great comfort to the chair and complies with the most rigorous ergonomic standards for collective seating.



- It is fixed to a structure with a tilting mechanism, which serves as a connection between sides, providing a forward movement to the backrest when the chair is not in use. With this movement, the backrest adopts an optimal ergonomic inclination when the seat is occupied. When the seat is unoccupied, the backrest automatically takes a vertical position that minimizes the depth of the whole seat, facilitating its tipping into the system.

- This structure with a tilting mechanism is also responsible for housing the Controlled Soft Rise Technology system for automatic seat return.

- Model 248: The sides are made of a high-density wood block, covered with 50 kg/m3 fire-retardant polyurethane open-cell foam, and fully upholstered up to the base.

- Model 249: Manufactured with a high-density wood block, covered with 50 kg/m3 fire-retardant polyurethane open-cell foam and finished with a steel plate frame welded to the arch and finished on top with a beech wood arm, available in multiple finishes.

The base to attach to the tilting platform of the Rotation System is made of powder-coated steel plate.

For fastening to the tilting platform, we will use metric screws or other suitable fasteners, depending on the type of surface.



› Numbering

- The row numbering system is placed on a polyamide plate fixed to the end of row side.

- The seat numbering system is placed on a polyamide plate fixed to the seat with a pressure clip.



However, for the purpose of facilitating to the customer the latest novelties, FIGUERAS reserves the right to introduce the modifications and variations that it considers most appropriate and suitable for marketing its products.

General Description

Differential points:

. Multiple finishes for customization: wood finishes, upholstery, leather...



Aptum 246



Aptum 247



Aptum 247

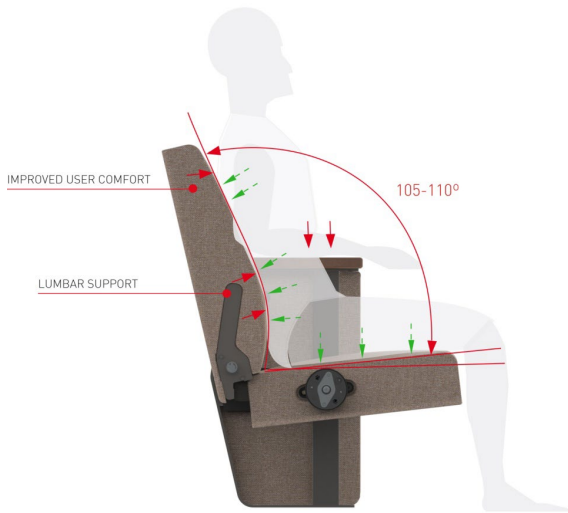


Aptum 248

- It complies with the most rigorous ergonomic standards for collective seating:

- Its design incorporates a lumbar support that provides great comfort to the chair.

- The backrest returns to its original position when the seat is Vacated.

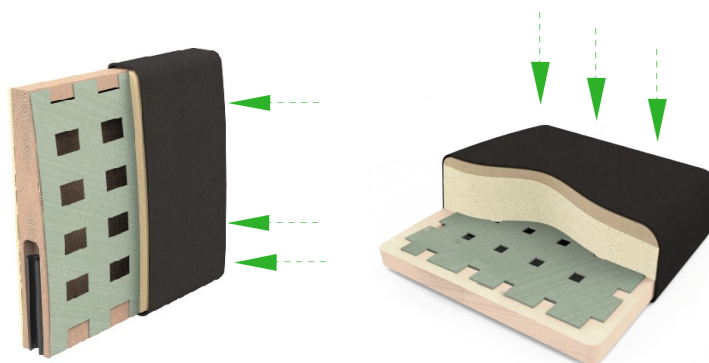


Sección mostrando la ergonomía de la butaca



Retorno automático del respaldo

- The seat and backrest are manufactured with an internal beech wood frame and high quality interwoven elastic straps covered with open-cell PUR foam, adapting perfectly to the anthropometric measurements of the user and providing the chair with great comfort.



Detalle en sección del conjunto asiento y respaldo

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Functional Description

Rotation System

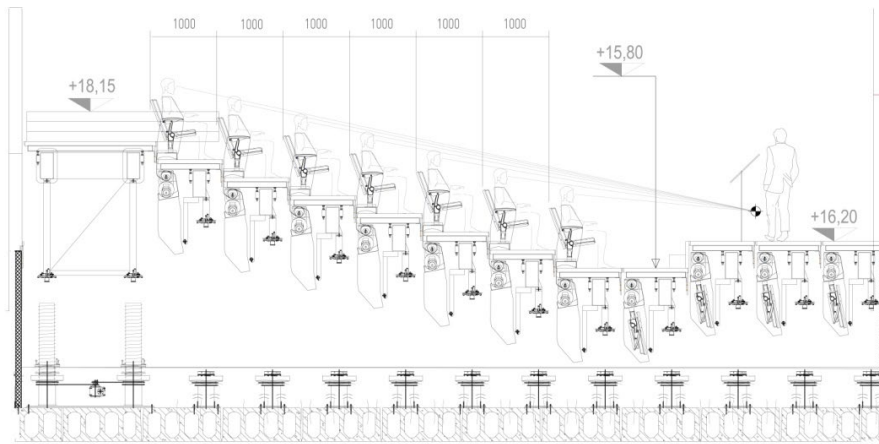
The Rotation System is a room configuration system that stores seating under the floor specially designed to generate multipurpose spaces.

- Conversion time between 10 and 30 minutes
- Wide variety of possible configurations
- Applicable in Cabaret, flat or tiered floor and other configurations.

- The seats automatically rotate from the stored position to the deployed position leaving the room ready for configured use.
- Its design is based on a steel structure and a rotation mechanism that stores groups of up to 12 seats under the floor.
- Once the system is fully deployed, the system covers transform into a walkable surface between rows, allowing the room to be ready in a matter of minutes. Its design provides speed, versatility and easy handling of the system.
- Once all the rows are folded, the room will be fully usable for all types of activities, such as conferences, dinners, exhibitions or any recreational event that takes place inside the venue.

Platforms with independent movement for each row

- The folding and unfolding movements of each row are individually programmed to provide maximum versatility to the installation, allowing different room layout configurations; free seating room and partial or total seating capacity.
- Each seating group operates individually, facilitating maintenance tasks.
- Adaptable to various linear and curved configurations.



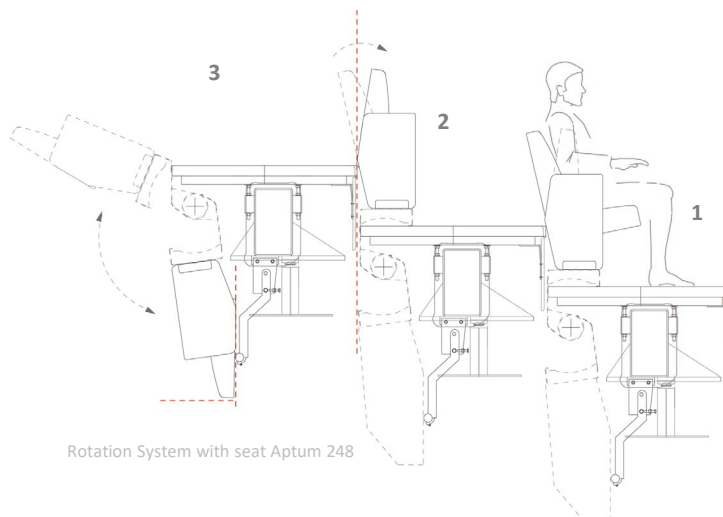
Rotation system with Figueras Minispace 5071 model

Application of the Rotation System in the Aptum model

The seat is fixed on a metal plate base designed to adapt to different seat models. This plate will flip the seat backwards while performing the automatic folding movement of the system, leaving the seat hanging upside down. All moving parts of the seat cannot be opened while performing the folding movement of the system. Once the seats are rotated, the row is lowered to store the seats under the floor.

The advantage of the APTUM model is its automatic return of the backrest to the vertical position when unoccupied, allowing it to be automatically returned to the vertical position when unoccupied:

- Minimize space transformation time, since the rows can be lifted without interfering with the rear row of seats.
- Narrower rows of seats and a shallower pit depth, if necessary .
- Leaving more space between rows, facilitating more transit space when seats are unoccupied.



Rotation System with seat Aptum 248

| Materials and finishings

› **Characteristics of metal parts**

- The steel complies with the following European standards:
- Tube up to 2 mm thick: Alloy designation according to UNE-EN 10305 part 3: E-220.
- Tubes thicker than 2 mm: Alloy designation alloy designation S275JR.
- Sheet: Alloy designation according to EN 10111: DD12.

› **Protection and painting of metal parts**

Protection and painting of metal parts

- Prior to powder coating, metal parts are treated with a three-stage non-acidic cleaning process to achieve superior finish adhesion. The thermosetting polyester powder coating finish should be applied by electrostatic means with a minimum thickness of 70-80 microns.
- After coating, parts should be oven cured to create a durable finish that meets the following requirements:
 - Composition: polyester powder suitable for outdoor use.
 - Cross Cut Adhesion Test according to UNE-EN ISO 2409 GT 0-1 classification.
 - Scratch resistance according to ISO 15184:98 Level HB-H.
 - Total thickness: 70-80 Microns.
 - Resistance to oxidation (NSS), according to ISO 9220: 200 h.
 - Resistance to MEK 50 double rubbing without paint pickling.

See all available finish options.

› **Characteristics of the seat and back cushions**

- The seat and back cushions are made of open-cell polyurethane foam.
- The upholstery of the cushions is handcrafted, admitting all types of upholstery: fabrics, imitation leather or natural leather. Within the range of products approved by Figueras.
- This allows the armchair to be customized according to the requirements of each project.
- Optionally, a fire barrier can be incorporated between the upholstery and the PUR foam.
- They comply with all international fire performance requirements.
- Density of the seat foam: 50kg/m³
- Backrest foam density: 50Kg/m³

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Environmental and quality certifications

This product has been designed following the guidelines of the Ecodesign management system certified according to the UNE-EN ISO 14006 standard.



- The manufacture of this product has been carried out according to the environmental management system certified in accordance with the UNE-EN ISO 14001 standard.

- The quality management of this product has been carried out in accordance with the quality system certified according to the UNE-EN ISO 9001 standard.

