



ONIK

Automatic folding seat mounted on a beam, ideal for sports facilities and multi-purpose arenas. Its versatility also makes it perfect for educational spaces, training rooms, and universities. Its compact design maximizes space efficiency.

However, in order to provide customers with the latest updates, FIGUERAS reserves the right to introduce any modifications and variations deemed appropriate and convenient for the commercialization of its products.



Technical Specifications

› Structure

- Made of tubular steel and sheet metal, with continuous arc welding.

› Polyurethane Foam

- Seat density: 60-65 Kg/m³
- Backrest density: 60-65 Kg/m³

› Zinc Coating(optional)

- Thickness: 6-12 microns.
- According to UNE EN 12329 (discontinuous) and PNE-Pr EN 10152 (continuous)

› Paint

- Electrostatic polyester powder coating.
- Paint thickness: 70-80 microns.
- Adhesion to grid according to UNE-EN ISO 2409: 100%.

› Polypropylene

- Material: Polypropilene Copolymer: 15% GF.
- Tensile strength according to ISO 527-2: 26 MPa.
- Elastic modulus according to ISO 527-2: 1250 MPa.

› Upholstery

- Fire reaction standards:
 - Spain: UNE-EN 1021, parts 1 & 2.
 - France: NF D 60-013.
 - Italy: UNI 9175 Clase 1.IM.
 - Germany: DIN 66084.
 - USA: CAL 117.

› Fire Resistance

- BS 5852. Clause 11. Ignition sources 0, 1 & 5 (with approved fabric). Only for indoor or semi-outdoor use.
- USA: CAL T.B. 133 (with approved fabric).

› Resistance and Durability Classification

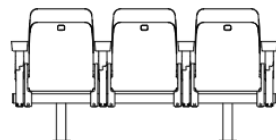
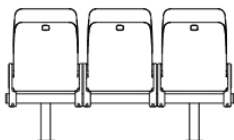
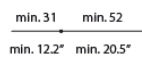
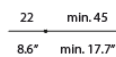
- UNE-EN 12727 Level 4 (Severe use).

› Certifications:

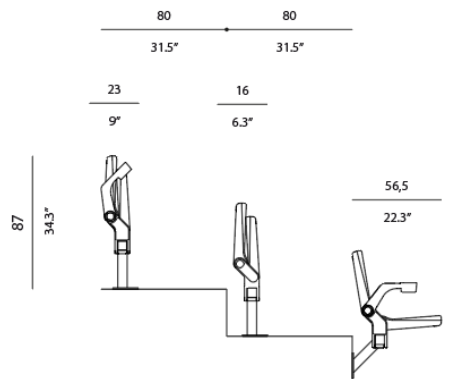
- Product designed according to the EcoDesign standard **UNE-EN ISO 14006**.
- In terms of environmental management, the product has been evaluated using the Life Cycle Assessment (LCA) methodology, in accordance with UNE-EN ISO 14040, UNE-EN ISO 14044, and the Type III declaration according to UNE-EN ISO 14025.

General Dimensions

› Dimensions for fixed seats:



brazo con posavasos/ armrest with cupholder



General Description

Folding seat with controlled lift technology, featuring upholstered cushions and polypropylene shells. It stands out for its exceptional performance and durability, as well as its great versatility, making it suitable for indoor use.

› Seat-Backrest Assemblies

- The seat and backrest assembly is automatic folding and identical in shape, dimensions, and components. It is mounted on a beam.
- The seat assemblies and specified accessories are fixed to a rectangular steel profile measuring 6x6 cm with a thickness of 3-4 mm, depending on the number of seats per profile. This profile is installed horizontally on supports that are fixed at regular intervals, spaced between 2 and 3 seats. The supports must be anchored to the floor or riser using appropriate screws for each type of surface, as indicated in the installation plans. Both the profile and supports may be painted or treated with a white zinc coating.
- The rear shells of the cushions are made from a single piece of polypropylene copolymer reinforced with 15% fiberglass to ensure impact resistance. These pieces are injection-molded and feature a textured finish of type MT9053.
- The connection to the supports includes a slightly circular widening that functions as a casing, completely enclosing the lifting mechanism to ensure safety.
- Certified through mechanical resistance tests on the finished product, following the UNE-EN 12727 standard, Level 4: Severe Use. This includes a static load test on the seat with 2000 N applied over 10 cycles, and a dynamic fatigue test with a load of 1000 N applied over a total of 200,000 cycles.
- The front components, corresponding to the upholstered cushions, consist of a molded assembly made up of three elements. These include a 10 mm steel rod frame that runs along the entire perimeter. This frame is placed into the mold along with the specified fabric, after which the "cold" foaming process is carried out. The result is a single cushion with high structural stability and resistance to wrinkle formation during use. These components are designed to be easily replaceable, using a single tool and operating on a single fixing element discreetly hidden beneath the numbering plate.

› Supports

- Structural components molded by injection with glass fiber-reinforced polyamide are used to connect the seat and backrest components into a single assembly. Each seat and backrest component features one support on each side, ensuring that each seat-backrest assembly is independent of the others. These supports extend below the seat, forming a clamp that secures the assembly to the horizontal crossbeam. The clamp is fixed with a single screw, making installation easier.
- Each support incorporates two steel axes that allow the independent rotation of the seat and backrest, achieving a highly compact folding design. Both mechanisms, the seat lift and the backrest rotation, are fully enclosed to ensure safety and protection.
- The seat automatically rises to a vertical position when unoccupied, as does the backrest, with independent movements. The seat lift is achieved through two lubricated torsion springs that incorporate an energy absorption mechanism, ensuring a smooth and noiseless return. The backrest's return movement is also achieved using two lubricated torsion springs.
- The seat lift mechanism is certified through mechanical resistance testing on the finished product, following the UNE-EN 12727 standard, Level 4: Severe Use. This includes a dynamic fatigue test with a total of 100,000 cycles.
- The outer face of the supports features covers made of polypropylene copolymer, matching the color and texture of the seat and backrest shells. These covers are attached without screws or visible elements, ensuring a clean and uniform finish.

› Armrests

- Optionally, the seat can include armrests with cup holders. These armrests are foldable and made of injection-molded thermoplastic. The top part of the armrest can be upholstered with the same fabric as the seats and backrests. The rotation and fixing mechanism of the armrest is made of steel and is directly attached to the steel structure.
- › Los conjuntos de asiento pueden montarse con una distancia mínima entre ejes de 45 cm sin reposabrazos y de 52 cm con reposabrazos.
- › The height of the folded backrest (unoccupied) is 87cm from the floor. In a side view, when folded (unoccupied), it occupies no more than 16cm without armrests and 23cm with the armrest folded down.



Functional description

- Folding seat with a thickness of only 16 cm when unoccupied (without armrests), optimizing space in both floor-fixed versions and mobile seating systems (Retractable tribunes, Mutasub, Mutarail, and Mutawheel).
- Automatic folding chair mounted on a beam.
- The seat and backrest feature two independent rotation movements, ensuring maximum comfort.
- The seat folding mechanism, which is automatic, uses CRT (Controlled Rise Technology), ensuring a completely silent and smooth return movement without impacts.
- The seat and backrest have independent movements
- The backrest features the RK reclining system, activated by the pressure exerted by the occupant.
- The seat and backrest assembly includes two lateral supports made of glass fiber-reinforced polyamide (PA-FV) for attachment to the beam or profile.
- The movements of the seat and backrest are driven by torsion springs concealed within the lateral supports, ensuring maximum safety. The system is maintenance-free.
- The seat and backrest are exactly the same piece, with identical components, simplifying maintenance and replacement if necessary.
- The seat and backrest are made of a cold-molded polyurethane (PUR) block. The upholstery is integrated into the foam using Figueras' Integral Form system, without seams or wrinkles, which facilitates maintenance and reduces the need for replacements.
- The Integral Form system, patented by Figueras, ensures that the upholstery remains wrinkle-free, even under intensive use. The cushions are easily replaceable using a single tool and operating on a single fixing element discreetly located beneath the numbering plate. During this process, the TS System barrier can be incorporated between the foam and the upholstery, preventing fire from reaching the foam and delaying both the spread of flames and the release of toxic gases.
- The polypropylene shells used on the back of the seat and backrest are easy to clean. Additionally, they protect the upholstered elements, preventing scratches or dirt on the rear surfaces of the upholstery.
- Each seat module is individually attached to a 6 x 6 cm steel profile with a wall thickness of 0.3 cm or 0.4 cm, depending on the number of seats per profile. The attachment is made through lateral bracket-shaped supports located at the bottom, using a single screw per support.

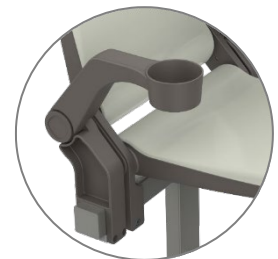
- The feet or floor anchoring elements are connected to the Steel profile at intervals of 2 or 3 seats, depending on the axis spacing. These are not welded to the beam, providing greater flexibility during assembly.
- The seat numbering is integrated into a 4.2x3cm plate attached to the polypropylene shell using a snap-fit clip.



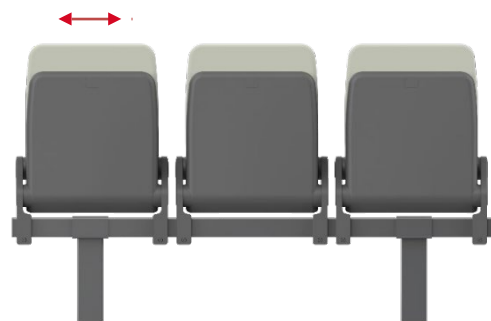
- The row numbering is placed on an oval plate attached to the lateral support at the end of the row.



- Optionally, the seat assembly can include an armrest attached to the steel beam. This armrest, manufactured through thermoplastic injection molding, consists of several components: a fixing support for the beam, a manually rotating component on this support that includes the armrest with a 10cm diameter cup holder, and a third piece at the top that serves as a cover. Optionally, this cover can be upholstered. The armrest folds to occupy minimal space, facilitating passage and optimizing its application in Figueras' movable seating systems.
- Armrests can be shared between two seats or be individual (2 per seat).



- The axis spacing can be easily adjusted to meet the needs of the venue.



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Materials and finishings

Characteristics of the metal parts

- The steel complies with the following European standards:
 - Tubes up to 2 mm thickness: Alloy designation according to UNE-EN 10305 Part 3: E-220.
 - Tubes over 2 mm thickness: Alloy designation S275JR.
 - Sheet metal: Alloy designation according to EN 10111: DD12.

Protection and paint of the metal parts

- Before the powder coating process, the metal parts undergo a three-stage, non-acidic cleaning treatment to ensure superior adhesion of the finish. The polyester thermoset powder coating is applied electrostatically with a minimum thickness of 70-80 microns.
- After coating, the parts are oven-cured to create a durable finish that meets the following requirements:
 - Composition: Polyester powder suitable for outdoor use.
 - Adhesion: Cross Cut Test according to UNE-EN ISO 2409 classification GT 0-1.
 - Scratch resistance: According to ISO 15184:98 Level HB-H.
 - Total thickness: 70-80 microns.
 - Corrosion resistance (NSS): According to ISO 9220, 200 hours.
 - MEK resistance: 50 double rubs without paint stripping.

Characteristics of the metal parts

- The seat and backrest shells are high-pressure injection-molded using high-impact polypropylene copolymer. Durable pigmented plastic is used, with a textured visible surface.
- The lateral side pieces are molded from glass fiber-reinforced polyamide. Durable pigmented plastic is used, with pigments for the plastic components selected from the standard range offered by Figueras.

Characteristics of Seat and Backrest Cushions

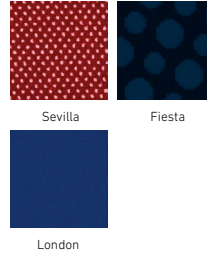
- The bi-elastic upholstery used in the Integral Form system can optionally include a fire barrier to meet the most demanding market standards for fire reaction. The seat and backrest consist of a single-piece modular cushion that integrates a square steel tube frame over-molded with high-density flexible polyurethane foam and a PVC coating, depending on the project's requirements.
- Foam density for seat and backrest: 60-65 kg/m³

Upholstery

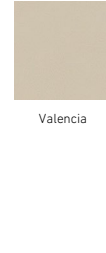
Comfort Selection:



Elegance Selection:

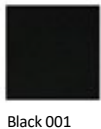


Tech Selection:



Fabric samples printed by collection. Check all available colors.

Pigments for metallic parts



Pigments for plastic parts

