Rhombus Excellence | 13037-58

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Technical specifications

› Structure
· Made of tube and steel plate arc welding with continuous wire.

› Polyurethane foam
· Seat density: 60-65Kg/m³.
· Backrest density: 50-55Kg/m³.

› Paint
· Electrostatic powder polyester paint.
· Paint Thickness: 70-80 microns.
· Grid adhesion according to UNE-EN ISO 2409 : 100%.

› Upholstery
· Reaction to fire standards:
- Spain: UNE-EN 1021 Parts 1 and 2.
- USA: CAL TB117.

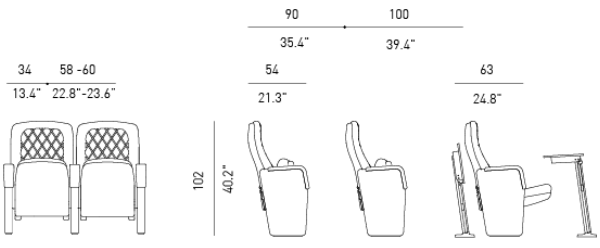
› Timber components
· Pressed beech plywood.

› Varnish
· Material: Bicomponent PU Varnish (water or solvent based)

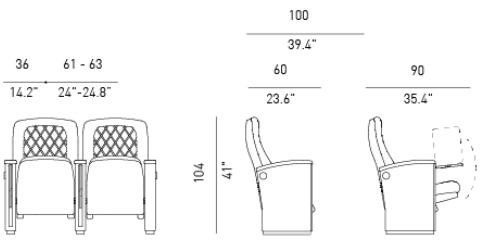
› Polypropylene
· Material: Polypropylene Copolymer IF-727.
· Tensile strength according to ISO 527-2: 26 Mpa.
· Elasticity module according to ISO 527-2: 1250 Mpa.

› Resistance and durability classification
· UNE-EN 12727 Level 4 (Severe use).

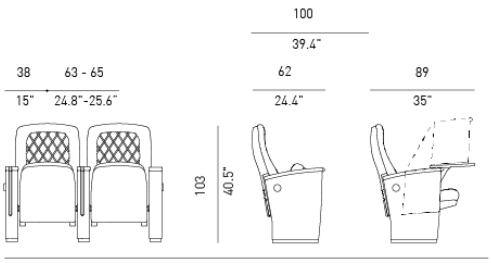
General dimensions



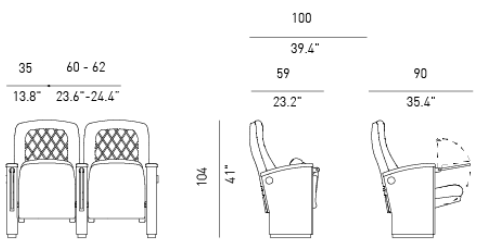
Rhombus Excellence 13037-58 Rhombus Excellence 13037-58 + F 48



Rhombus Excellence 13037-60 APL



Rhombus Excellence 13037-63 GPL



Rhombus Excellence 13037-60 PLX

| General description

› Seat of large dimensions, ergonomic, of great resistance and durability, composed of totally interchangeable elements.

· Seat and backrest are obtained by means of the polyurethane foam cold moulding system that completely covers a metallic structure, composed of a curved tube frame, a weft of flat springs

· Upholstery fully integrated into the foam using the Integral Form system without seams or stitching.

· Both the seat and the backrest are protected by a Tecnowood® shell. The seat housing incorporates the shafts and the automatic rotation and return system.

· The backrest mattress is anatomically designed with a lumbar support and incorporates rhombuses to increase comfort.

· The seat is installed on two side panels made of polypropylene using the blowing technique, which gives it great rigidity and lightness. They have an integrated housing system for the ball-and-socket joint, with a locking mechanism that receives the axis of the seat and allows easy replacement without disassembling the seat.

· The side panels are fully upholstered with varnished wood arms.

· The sides end in a lower steel base, by means of which the seat is fixed to the floor by means of hidden anchors. The seat is adapted to the specific slope of the room at the base of the foot.

· The rows are formed by interconnected seats and allow the formation of totally rigid and stable rows, reinforcing the fixation to the floor.

· Together with the F-48 table or the F-1000 table, it becomes an optimum solution for long-lasting work sessions and conferences.

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Materials and finishes

› Metal Parts Features

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

› Protection and Paint 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 finishing of the thermosetting polyester powder coating must be applied by electrostatic means with a minimum thickness of 70-80microns.

· After coating, the parts must be oven cured to create a durable finishing that meets the following requirements:
- Composition: Polyester powder suitable for outdoor use.
- Cross Cut Test Adhesion according to UNE-EN ISO 2409 classification GT 0-1.
- Scratch resistance according to ISO 15184:98 Level HB-H.
- Total thickness: 70-80Microns.
- Rust resistance (NSS), according to ISO 9220: 200 h.
- Resistance to MEK 50 double rubs without paint stripping.

› Plastic parts features

· High pressure injection moulded seat and backrest shells made of high impact copolymer polypropylene. High durability pigmented coloured plastic with textured exposed surface.

· Blown polypropylene moulded side panels.

› Seat and Backrest Cushions Features

· The seat and backrest cushions are made of cold moulded polyurethane foam.

· In the inside, both include metallic tube structures and steel plates, with springs. This system guarantees great comfort and avoids the appearance of deformations in the foams, even after an intensive use.

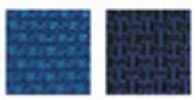
· Seat foam density: 60-65 kg/m³.
· Backrest foam density: 50-55Kg/m³.

› Upholstery

· Integral Form

· Group A:

Wicker (*) Spike (*) Rain (*) Lisboa (*) Lima (*)



Kubik (*) Loop (*)

Florida (*)

· Group B:

Rio (*)

· Group V:

Tecno Valencia (*)

(*) Fabric sample / printed by collection. Check colours available.

› Finishes for wood parts

Natural Beech ST01 | Hazelnut ST02 | Light Walnut OP03 | American Oak OP04 | Wengé OP05 | Mahogany OP06 | Cherry OP07

› Pigments for plastic parts

Black 001 | Afrikaans Grey 002 | Grey 801 | Mars Red 003

› Pigments for polyurethane parts

Black Polyurethane

› Finishes Tecnowood for plastic parts

Cherry | Natural Beech | Light Walnut | Cherry Brown