bernù aero

specifications

-- Designed by David Tonizzo
-- US Design Patent – US D498077 S
-- Registered Design

ARCONAS®

exceptional public seating

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OVERVIEW

Central beam mounted seating that offers:

- An innovative aeronautical statement in design
- Exceptional seating comfort
- A durable structure in function

Ergonomically contoured to Dreyfuss Scale Ergonomic Standards for notable comfort and support for long waiting periods.

Bernù Aero offers single straight (2-5 seats) or curved (concave 4 seat or convex 5 seat) units. They can be configured as back-to-back straight or curved units. The design is based on a modular approach that enables designers and end users to achieve a wide variety of configurations with a limited number of parts. The unit is supported by a central beam on which all the other elements are fixed using a unique “pin” system. The 21” table can replace any seat position for ultimate flexibility.

All castings are offered in satin aluminum finish with bright accents. All painted parts are in environmentally friendly electro-statically applied powder coating.

Bernù Aero has passed all required ANSI - BIFMA tests for Lounge Seating units.

CONSTRUCTION DETAILS

SUPPORTING BEAM

The supporting beam is made from a robust 3” x 1 1/2” (76mm x 38mm) rectangular aluminum extrusion with 3/16” (4.8mm) thick walls. The extrusion design includes two internal webs to maintain the rectangular shape when forming the curved versions of the beams. The beams are heat treated to T5 temper for maximum strength.

LEGS

Legs are cast in aluminum, to the specification listed below, and fixed to the beam with a 3/4” (19mm) diameter steel pin. All legs have adjustable leveling glides. Optional anti-slide glides for hard floors and glides for floor mounting are also available.

SEAT AND BACK SUPPORTS

Bernù Aero seats and backs are supported by cast aluminum brackets fixed to the beam by ¾” (19 mm) diameter steel pins.

The **Bernù Aero** seats and backs are made from 11 gage (3 mm) cold rolled steel. They are laser cut and roll formed to the **Bernù** profile. Upholstered seat and back pads constructed from urethane foam bonded to ¼” (6 mm) plywood forms. All seats and backs follow the ergonomic curves of the equivalent **Bernù** metal seat and back parts.

The **Bernù Aero Wood** seats and backs are made from laminated hardwood plywood. The seat and back are cut from a single moulded blank.. This ensures that the seat and back match in colour and that the grain runs continuously from one piece to the other.

UPHOLSTERY

Upholstered pads for the **Bernù Aero** seats and backs are made from ¼" (6 mm) plywood inserts matching the curved profile of the seat or back. Commercial foam sheets are bonded to the insert before the upholstery is installed using staples. Damaged upholstery pads can be changed out by one-for-one replacement of the pads. Alternatively, it is easy to remove a pad and re-upholster. A seat or back pad can be removed and replaced without disassembling the seat.

Upholstered pads can be used with wood or steel seats and/or backs.

ARMS

The two arm designs are of cast aluminum to the specifications listed below. They are fixed to the beam using 3/4" (19mm) diameter steel pins.

The loop arm has a sculpted aerodynamic shape enclosing an open loop. All surfaces are satin polished with bright accents.

The cantilever arm sweeps up from the beam to form a thin horizontal armrest. All surfaces are satin polished with bright accents. The cantilever arm is capped with a dense polyurethane foam or a maple arm pad.

TABLES

Tables are of 3/4" (20 mm) particle board with plastic laminate or 3/4" (20 mm) plastic based solid surface. Tables are 21" wide at a height of 18" (460mm). Tables can replace a seat in any position.

Similar 9" wide tables are also provided for the centre of 4 seat concave units.

ASSEMBLY

Units are shipped knocked-down (KD) and accompanied by detailed assembly instructions for easy assembly in the field.

FINISH

Aluminum Castings – Satin with bright highlights
Aluminum Extrusions – Clear anodized
Steel Parts – Powder coating
Wood/Plywood – Clear coated, quarter cut maple, oak and walnut

ALUMINUM SPECIFICATIONS

All aluminum alloy castings exhibit the following minimum properties.

Tensile Strength:	37,000 PSI
Yield Strength:	26,000 PSI
Elongation:	5.0%
Brinell Hardness:	70 (500 kg load 10 mm ball)

MOULDED FOAM SPECIFICATIONS

The high resiliency urethane foam is reactively formed with an environmentally friendly water technology. It exhibits the following ratings:

I.L.D.	27/34 lbs
Density	3.5 lbs/cu.ft
Compression Set:	5 at 80% max and 10 at 90% max
Tear Strength:	0.75 PPI
Hysteresis Loss:	22% max
Tensile Strength:	10 PSI
Minimum Compression Modulus:	2.2 lbs
Flammability	CAL117

PRODUCT CONFIGURATIONS

Depth of single units	28 3/8” (720 mm)
Depth of curved units	33” (840 mm)
Depth of back-to-back units	59 1/8” (1500 mm)
Height of units	33 1/16” (840 mm)
Height of seat	17 1/8” (435 mm)
Width of two seat units	48 34” (1240 mm)
Width of three seat units	71 3/4” (1820 mm)
Width of four seat units	94 3/4” (2410 mm)
Width of four curved seat units	105” (2680 mm)
Width of five seat units	117 3/4” (3000 mm)
Width of five curved seat units	119 1/4” (3030 mm)