

bernù cluster

specifications

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



ARCONAS[®]

— exceptional public seating

OVERVIEW

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Registered Design

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A Bernu/Aero Cluster provides 6 beam mounted seats grouped around a large triangular table offering:



- An innovative aeronautical statement in design
- Exceptional seating comfort with Bernu or Bernu Aero seat style
- A durable structure in function
- Many possible seating floor plans when arranging adjacent clusters
- High seat occupancy at peak times
- Two style bases – Fully Enclosed or Open Beam
- inPower Flex power modules can be mounted under each corner of the table
- Table can support optional Compass Tower or triangular illuminated signs
- Enclosed Base can house equipment used with the Compass Tower or signage

All seats are ergonomically contoured to Dreyfuss Scale Ergonomic Standards for remarkable comfort and support for long waiting periods in indoor environments.

Bernu and Aero have passed all ANSI - BIFMA tests for Lounge Seating units.

FEATURES

FULLY ENCLOSED BASE

The Fully Enclosed base is a triangular steel structure that supports the central table and the inner end of the Supporting Beams. Each of the 3 sides is fabricated from 11 gauge steel with welded internal gussets to maintain the shape and stiffness. Optionally, one or more sides can be equipped with a lockable access door and an internal shelf. This allows for maintenance of any equipment located within the base. There are hidden openings on each corner of the Enclosed Base to allow wiring to pass into the base. This allows the optional inPower Flex wiring to be routed internally.



The table top is attached to mounting lugs on the top edge of the base. Escutcheon plates are provided to attractively cover the entry of the seat beams into the Enclosed Base.

The Enclosed Base includes 6 adjustable glides.

TABLE TOP

The triangular shaped table top is adjacent to all 6 seats to provide a convenient surface for users to place beverages, luggage, etc while seated.

The table has a symmetrical triangle shape with truncated corners. Each tip to base dimension is 47 ¾" (1213 mm). The width across 2 corners is 54" (1371 mm). It is available in granite, solid surface and laminate over 1" (25 mm) MDF. Laminate tops are fitted with threaded mounting inserts and provided with colour matched vinyl edging.

Solid surface tops are ½" (12 mm) thick with built up edges to appear as 1" (25 mm) thick. The underside is bonded to a ½" plywood substrate equipped with threaded mounting inserts.

Granite tops are ¾" (20 mm) thick with built up edges to appear as 1 ½" (40 mm) thick. The underside is bonded to a ½" (12 mm) MDF substrate equipped with threaded mounting inserts.

All tops include mounting inserts for inPower Flex units under each corner.

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. The beams are heat treated to T5 temper for maximum strength.



LEGS

Legs are die cast in aluminum, to the specification listed on page 5, 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.

ARMS

The two arm designs are of cast aluminum to the specifications listed below (see page 5). 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 arm rest. All surfaces are satin polished with bright accents. The cantilever arm is capped with a polyurethane foam arm pad to provide a resilient surface with a warm feel. Optional cup holders are available for the cantilever arm only.



SEAT AND BACK OPTIONS

Bernù SEAT AND BACK

The **Bernù** seat sides are of solid aluminum, cast to the specification on page 5, to withstand the requirements of ANSI - BIFMA 5.4. The seat sides protect the full length of the seats and backs from damage. Grooves on the inner surface of the castings support the seat and back pans in an ergonomic shape to ensure comfort.

The seats are made of 12 gauge perforated steel, while the backs are made of 14 gauge perforated steel. The seat and back pans are then secured to the seat sides by hidden mechanical fasteners.

Optional seat pads are moulded over the seat pans. Back pads are moulded over an inner steel pan and fitted over the pack pan and secured using hidden fasteners.

Seats are fixed to the supporting beam by 3/4" (19mm) diameter steel pins.

Upholstered pads for the **Bernù** seats are moulded from high resiliency urethane foam (see page 5). The moulded foam ensures that the finished upholstery has smooth clean lines. The back cushion is moulded over an 18 gauge steel pan contoured to the **Bernù** back shape. The seat cushion is moulded over a 12 gauge seat pan that is fastened to the seat sides using steel cross braces. All fasteners are hidden.

Seat and back are upholstered using slipcovers. The slipcovers can be replaced in the field by trained maintenance personnel without disturbing adjacent seats.

Foam thickness ranges from 3/8" (9.5mm) to 1 1/8" (28.0mm) for the seat and 3/8" (9.5mm) to 1" (25.0mm) for the back, to follow the contour.

The high resiliency urethane foam is reactively formed with an environmentally friendly water technology.



Seat and back slipcover design avoids seams in the high wear areas in the centre. The front and top edges use a waterfall approach to minimize wear on those edges. The seams are sewn using French stitching.

Slipcover closure is made from heavy duty Velcro (400 hooks / sq-in). The closures are located in inaccessible positions to minimize tampering and vandalism.

Please refer to the **Bernù** spec for more details.

AERO SEAT AND BACK

All **Bernù Aero** and **Bernù Poly** seats and backs follow the same ergonomic curves of the very comfortable **Bernù** seating.

Bernù Aero seats and backs are supported by cast aluminum brackets fixed to the beam by $\frac{3}{4}$ " (19 mm) diameter steel pins.

The **Bernù Aero** seats and backs are made from 11 gauge (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 $\frac{1}{4}$ " (6 mm) plywood forms. All seats and backs follow the ergonomic curves of the equivalent **Bernù** metal seat and back parts.

Please refer to the **Bernù Aero** spec for more details.



AERO WOOD SEAT AND BACK

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. The grain runs continuously from one piece to the other.

Upholstered pads for the **Bernù Aero** and **Bernù Aero Wood** seats and backs are based on moulded ABS bases matching the curved profile of the seat or back. Polyurethane foam is moulded over the base. The upholstery is stretched over the moulded cushion and stapled to the base. 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.

Please refer to the **Bernù Aero Wood** spec for more details.



AERO POLY SEAT AND BACK

The **Bernù Poly** seats and backs are made from self-skinning polyurethane foam moulded over a steel frame. No additional finish or upholstery is required..

As a standard, the seats and backs are supplied in 6 colours. For large orders (200 sets minimum), they can be supplied in most Pantone colours.

Please refer to the **Bernù Poly** spec for more details.



ASSEMBLY

Units are shipped knocked-down (KD). The Bernù seats and backs are assembled in our plant to facilitate easy installation at site. Detailed assembly instructions are available.

FINISH

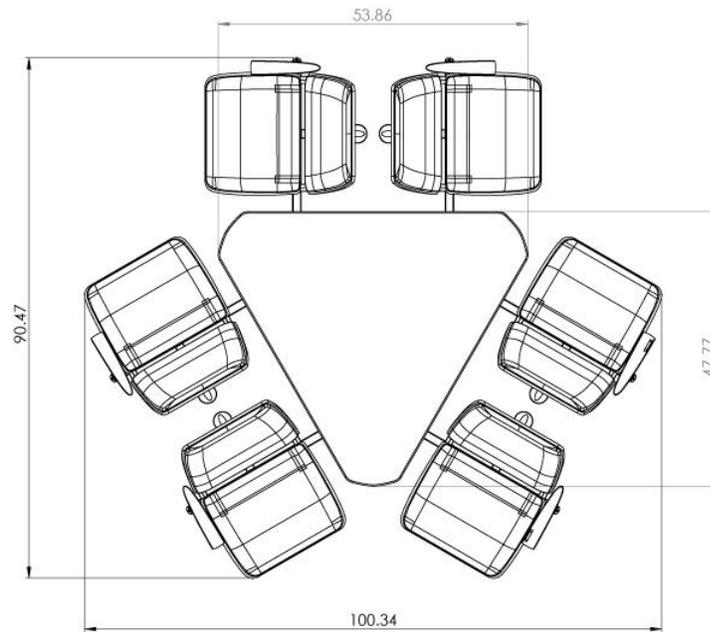
Aluminum Castings – Satin with bright polished accents
Aluminum Extrusions – Clear anodized
Steel Parts – Powder coating

SPECIFICATIONS FOR ALUMINUM

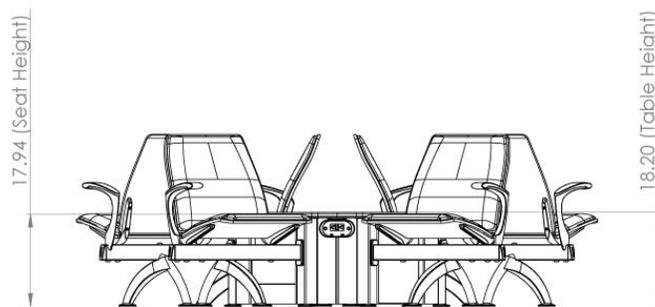
Castings are cast with an Aluminum alloy exhibiting the following minimum properties:

Tensile Strength:	40,000 PSI
Yield Strength:	27,000 PSI
Elongation:	1.0%
Brinell Hardness:	90 (500 kg/10 mm Ball)
Shear Strength:	24,000 PSI

TYPICAL DIMENSIONS



Top View of Cluster



Elevation View of Bernù Cluster (Fully Enclosed Base shown)

APPROVALS

ANSI/BIFMA X5.4 Lounge Seating Chairs Test
ANSI/BIFMA X7.1 Standard for Formaldehyde &TVOC Emissions from Office Furniture Systems, Components and Seating
CAL TB-133 Furniture Seat Fire Test