

# bernù

## specifications

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



**ARCONAS®**  
— exceptional public seating

# OVERVIEW

Designed by Davide Tonizzo  
Registered Design

US Design Patent – US D498077 S  
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Central beam mounted seating that offers:

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

**Bernù** is ergonomically contoured to Dreyfuss Scale Ergonomic Standards for remarkable comfort and support for long waiting periods in indoor environments.

**Bernù** 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 revolves around a central beam on which all the other elements are fixed with a unique “pin” system. The 21” table can replace any seat position for ultimate flexibility.

**Bernù** is also available as cluster with 6 seats arranged around a large triangular table, and hardwood and upholstered benches. See their specifications for details.

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

# FEATURES

## 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

The **Bernù** seat sides are of solid aluminum, cast to the specification listed below, 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, ensuring maximum strength.



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.

## SEAT AND BACK CUSHIONS

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Upholstered pads for the **Bernù** seats are moulded from high resiliency urethane foam (see specifications below). 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.

## UPHOLSTERY

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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.

## ARMS

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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 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.

## ASSEMBLY

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

## FINISH

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



## TABLES

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The standard tables are made from 3/4" (20 mm) MDF with plastic laminate, 1/2" (12 mm) solid surface, or 3/4" (20 mm) granite as specified on order. Laminate tables are fitted with threaded mounting inserts and provided with colour matched vinyl edging. Solid surface and granite tables are bonded to a 1/2" plywood substrate equipped with threaded mounting inserts.

Mid-Tables are 21" (540 mm) wide at a height of 18" (460mm). They can replace a seat in any position.



## BENCHES

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**Bernù** Benches are available in 2 and 3-seat lengths. Bench top choices include three species of wood (Oak, maple, Walnut) or upholstery as selected by the purchaser. The benches are supported by the standard **Bernù** legs and beam.

See **Bernù Bench** Specifications for details.

## CUP HOLDER

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An optional **Bernù Cup Holder** is available. It can be installed on or retrofitted to any cantilever arm. It mounts below the arm casting using the arm pad screws. The cup holder is made from formed stainless steel. The bottom is open to allow easy drainage of any spilt beverage



|                     |                 |
|---------------------|-----------------|
| Cup Opening         | 3 1/8" (78 mm)  |
| Basket Depth        | 2 3/4" (70 mm)  |
| Outside Diameter    | 3 3/8" (85 mm)  |
| Projection Past Arm | 3 7/16" (88 mm) |

## BACK TO BACK CONNECTOR

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An optional **Bernù Back to Back Connector** is available to attach two linear units of the same length. It attaches to the bottom of seat pins near the end of each beam. The Back to Back Connectors are made from a rectangular aluminum extrusion 2" x 1 1/2" (50.8 x 38.1 mm) with a 3/16" (5 mm) wall. It holds the beams of the two seating units 25 3/16" (635 mm) apart. See overall assembled width below.

## SPECIFICATIONS FOR ALUMINUM

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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

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|                             |                   |
|-----------------------------|-------------------|
| Depth of single units       | 28 1/2" (725 mm)  |
| Depth of back-to-back units | 58 1/4" (1480 mm) |
| Height of units             | 33" (840 mm)      |
| Height of seat              | 17 1/4" (440 mm)  |
| Width of two seat units     | 49" (1245 mm)     |
| Width of three seat units   | 72" (1830 mm)     |

|                          |                |
|--------------------------|----------------|
| Width of four seat units | 95" (2415 mm)  |
| Width of five seat units | 118" (3000 mm) |

## **APPROVALS**

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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