

# bernù poly

## specifications

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



**ARCONAS<sup>®</sup>**  
— exceptional public seating

# 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 during long waiting periods.

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

# CONSTRUCTION DETAILS



## SUPPORTING BEAM

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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

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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

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**Bernù Poly** seats and backs are supported by cast aluminum brackets fixed to the beam by 3/4” (19 mm) diameter steel pins.

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

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

## 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 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

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Tables are of 3/4" (20 mm) particle board with plastic laminate or 3/4" (20 mm) plastic based solid surface with special embedded nuts for easy assembly. 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

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

## FINISH

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Aluminum Castings – Satin with bright highlights

Aluminum Extrusions – Clear anodized

Steel Parts – Powder coating

Wood – Clear maple

Polyurethane Foam - None

## ALUMINUM SPECIFICATIONS

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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

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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
Flamability	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 1/4" (440 mm)
Width of two seat units	48 3/4" (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)