



Bernù Bench

Specifications

Designer
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OVERVIEW



Bernù Benches provide backless seating with hardwood or upholstered tops. The tops are supported by the very durable beam and legs common to all Bernù products.

The end profile of the bench tops is reminiscent of the aerofoil shape of an aircraft wing. The name of the Bernù Series honours the contribution to aerodynamics made by Daniel Bernoulli and his Bernoulli's Equations. The equations are widely used to develop wings and to explain why they work.

Bernù Benches are offered as 2 or 3 seat units

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

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 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.

Wooden Bench Tops

- The Wooden Bernù Bench tops are made from seasoned hardwood using a doweled and glued technique to ensure strength and durability. They are available in maple, oak and walnut in 2- or 3-seat lengths. The structure consists of eight 1 3/4" x 1" slats supported on cross members and doweled and glued to 1 1/2" thick end caps profiled to an aerofoil shape. The front and back edges are made from heavy wooden sections shaped to match the aerofoil profile of the end caps.
- All are clear coated without a coloured stain to allow for easy touch up of minor scratches (no stain matching required).

Upholstered Bench Tops

- The Upholstered Bernù Bench tops are built over a strong platform constructed as a sandwich of steel sheets bonded to a fir plywood core. The polyurethane foam cushion is cut to follow the aerofoil profile before bonding it to the platform. The cover is sewn using French stitching for strength and durability. The front and rear edges use a waterfall approach to eliminate seams on these high wear surfaces.



Mounting Brackets

- The mounting brackets that connect the top to the beam are fabricated from 11Ga steel

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
- Hardwood – Clear coat

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 kgf load 10 mm ball)

PRODUCT CONFIGURATIONS

Depth of wooden bench	24 1/8" (613 mm)
Depth of upholstered bench	25 1/2" (648 mm)
Height of seat	18 1/8" (460 mm)
Width of two seat units	48" (1220 mm)
Width of three seat units	72" (1830 mm)

ENVIRONMENT

- Arconas public seating can help customers achieve the following Commercial Interiors LEED credits:
- MR Credit 3.3 – 30% Furniture and Furnishings Intent: Reuse building and materials in order to reduce demand for virgin materials and reduce waste, thereby reducing impacts associated with the extraction and processing of virgin resources.
- Arconas public seating is designed to be refurbished after many years of use.
- MR Credit 4.1 and 4.2 – Recycled Content Intent: Increase demand for building products that incorporate recycled material, reducing impacts resulting from extraction and processing of virgin materials.
- Steel components include 30% recycled content.
- Cast Aluminum components include 10% recycled content.
- Extruded Aluminum components include 70% recycled content including 10% post-consumer.
- MR Credit 5.1 - Regional Materials Intent: Increase demand for building materials and products that are extracted and manufactured within the region
- Help with this point will depend on project location.
- EQ Credit 4.5 - Low Emitting Materials, Furniture and Furnishings Intent: Reduce the use of furniture assemblies that may release indoor air containments that are odorous or potentially irritating and might be deleterious to installer and occupant health, comfort, and well-being.
- Arconas paints are free of V.O.C.s in formulation as outlined by the U.S. Code of Federal Regulations Title 40, Part 60, Appendix A, referenced in GS-11, 4.1.1.

APPROVALS

- Foam meets Cal 117