

ARCONAS



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aerea™

Specifications

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## OVERVIEW

Aerea is an elegant and highly configurable soft seating system for high use public areas in airports, other transportation terminals, health care facilities, lounges, etc. The Aerea system is designed for outstanding comfort combined with ease of maintenance and high durability.

Configurable Aerea Modules include:

- 22" (560 mm) Seat with Back
- 30" (760 mm) Seat with Back
- 22" (560 mm) Bench or Ottoman Seat with No Back
- 30" (760 mm) Bench or Ottoman Seat with No Back
- 22" (560 mm) Mid or End Table
- 13" (330 mm) Mid or End Table
- 90° Corner Table
- 22" (560 mm) Connecting Table
- Space between adjacent seat cushions
- Coffee Table

## FEATURES



### Supporting Beam

- The main beams are aluminum extruded from 6005 T5 Aluminum in a 1.842" (46.8 mm) hexagonal shape with 3/16" (4.8 mm) walls. There is a single 3/16" (46.8 mm) thick web top to bottom. There is a single .393" (10 mm) T-Slot opening on one side.
- The maximum length of a beam is 144" (3660 mm). On beams longer than 72" (1830 mm), a central leg is required.

### Legs

- Front and rear legs are made from die cast aluminum. The top hub of each leg includes a recess matching half of the beam hexagon shape. A die cast cap including the other side of the hexagon is used to clamp a leg to the beam at any location. The cap can be replaced by an arm casting when a rear leg is required under an arm.
- The rear leg is shaped to be a "wall saver". The glide will contact a wall before the top of the seat back to prevent the back from touching the wall.
- All legs have adjustable leveling glides. Optional anti-slide glides for hard floors and glides for floor mounting are also available.
- When assembling Backless Benches, Ottomans or Coffee Tables, all legs use the "front" leg castings to maintain symmetry.

### Seat and Back Supports

- The front and rear seat supports are made from die cast aluminum. The bottom surface of each support includes a half hex recess to fit over the beam. The supports are bolted to threaded bars inside the T-slots in the beams. Extruded aluminum cross rails connect the front and rear mounts to maintain the distance between the front and rear beams.
- The backs mount on the vertical extensions of the rear support. The front mount casting is used front and back to support the seats of Backless Benches, Ottomans and Coffee Tables.



### Seat and Back Cushions

- The seat and back cushions are made from polyurethane foam moulded over welded steel frames. The seat cushion includes an elastic deck to support the weight of the user and control the softness of the seat. A plastic extrusion including a downward facing groove is attached around the edges of the bottom surface of the seat frame. Similarly, the extrusion is attached to the bottom edge of the back frame.
- The foam seat moldings are approximately 5 ¼” (130 mm) thick and 24” (610 mm) deep front to back. They incorporate a ½” crown front to back and side to side to minimize “puddling” if the upholstery stretches in use.
- The high resiliency urethane foam is reactively formed with an environmentally friendly water technology. Approximately 10% of the polyol used in the manufacture of the foam will be from renewable sources (eg. – BiOH Polyol from Cargill made from soy beans).
- The customer selected upholstery fabric is sewn into slip covers. The front and top edges use a waterfall approach with no seams to minimize wear on those edges. The seams are sewn using French stitching. A sew spline is sewn to the edges of the opening of the slip covers. The slip covers are pulled over the molded foam and the sew splines are pushed into the extruded grooves. This holds the slip covers in place without staples, zippers, Velcro or other fasteners. The seat and back slip covers are easy to replace in the field. The closures are located in inaccessible positions to minimize tampering and vandalism.



### Arms

- The cantilever style arms are made from die cast aluminum. The hub at the bottom of the casting entraps the beam and clamps in place using the same cap used for the legs. If an arm is required over a centrally mounted leg, it will clamp to the leg and does not require a cap.
- The arm is fitted with a 13 ¼” x 4” x 1” (340 x 100 x 25 mm) arm pad. It is made from self- skinning, high density polyurethane foam molded over a rigid polypropylene base. The base includes numerous through holes to interlock the foam to the base.

### Assembly

- Units are normally shipped fully assembled from our plant.

### Finish

- Aluminum Castings – Powder coated Black or Cloud Silver
- Aluminum Extrusions – Powder coated Black or Cloud Silver



### Tables

- The standard Tables are made from 3/4" (20 mm) Baltic Birch with high pressure laminate or wood veneer, 1/2" (12 mm) solid surface, or 3/4" (20 mm) granite as specified on order. Solid surface and granite Tables are bonded to a 1/2" MDF substrate equipped with threaded mounting inserts.
- Two sizes of Table modules are available – 22" x 24" or 13" x 24" with 14 5/8" Table height. They can be positioned as end Tables or at any location on an Aerea seating unit.
- Two Aerea seating units can be connected using the 13", 22" or a 90° corner Table (44 3/4" corner to corner x 24"). All connecting Tables mount on sections of the hexagonal beam extrusion. These beams connect to the seating unit beams using pivoting connector brackets.
- Note that Backless bench or Ottoman units cannot be connected to units with seats and backs.
- Free standing Coffee Tables are 23 3/4" x 42" x 14 5/8" high. The structure of the Coffee Table is made from the same components as the seating.

### Specifications

Aluminum die castings are made from alloy A360 or equivalent exhibiting the following minimum properties:

Tensile Strength:	40,000 PSI
Yield Strength:	24,000 PSI
Elongation:	3.0%
Brinell Hardness:	75
Shear Strength:	24,000 PSI

Aluminum extrusions are made from alloy 6005-T5 or equivalent exhibiting the following minimum properties:

Tensile Strength:	37,000 PSI
Yield Strength:	33,000 PSI
Elongation:	4.0%
Brinell Hardness:	85
Shear Strength:	29,000 PSI

### Typical Dimensions

Depth of Seat/Back units	29 3/8" (50 mm)
Height of Back	32" (815 mm)
Height of Seat	17 1/4" (440 mm)
Depth of Seat	20 1/4" (515 mm)
Depth of Backless Bench and Ottoman units	24" (610 mm)
Height of Backless Bench and Ottoman units	18" (460 mm)
Width of 30" Chair arms	35 3/4" (910 mm)
Width of Love Seat (30" Cushions with 2 Arms)	66 1/4" (1685 mm)
Width of Three Seat Sofa (22" cushions, 2 Arms)	72 3/4" (1830 mm)
Width of Three Seat Sofa (30" cushions, 2 Arms)	96 3/4" (2460 mm)

The actual length of a seating unit will depend on the specific modules selected for an application.

## 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. (All Setz and Landings, Flyaway, Bernù, Bernù Aero back pans.)

Cast Aluminum components include 10% recycled content. (Flyaway and Bernù)

Extruded Aluminum components include 70% recycled content including 10% post-consumer. (Bernù and Bernù Aero beams)

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 contaminants 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.**