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## Flyaway

### Specifications

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Doug Ball

## OVERVIEW



Central beam mounted seating that offers:

- A strong statement in design
- A rugged structure in function
- Unsurpassed comfort

Ergonomically contoured to Dreyfuss Scale Ergonomic Standards for remarkable comfort and full support for longer waiting periods.

Flyaway is designed as a single row unit while also available as a back-to-back unit. Back-to-back units therefore require only 4 contact points to the floor for a double row, a bonus in terms of cleaning and providing a clear view of the underside for security. For back-to-back singles, connections provide control of location. Table arrangements address all desired configurations either across the ends, replacing a seat position or wrapping around a corner.

All castings are available in bright or satin aluminum finish. The beam structure is in environmentally sensitive electro-statically applied powder coating.

## FEATURES

### Supporting Beam

- The supporting beam is made of 3 ½" (89mm) diameter ASTM A500 steel beam of 10 gauge (3.5mm) minimum thickness for the major structural member. On back-to-back units the beam is joined by a pair of 1" (25.4mm) x 2 ½" (64mm) rectangular tubes of 14 gauge (2mm) shaped and welded to fit the beam.



- Tensile Strength: 62,000 PSI
- Yield Strength: 46,000 PSI
- Elongation: 23.0%

### Legs

- Legs are of aluminum, cast to specification listed below, shaped to fit around the beam and providing substantial floor contact. Back to back units have 4 short legs while single units have these two legs as rear legs plus 2 longer legs projecting to the front. All legs have adjustable glides to allow floor leveling. Optional non-slip glides are available.



### Seat and Back Supports

- The main seat support is of solid aluminum, cast to the specification listed below to withstand the requirements of ANSI /BIFMA X5.4 standards. The seat supports are positioned on the beam by a 3/8" (9.5mm) shouldered steel pin cast into the support. The seat supports are optional with or without arms, as an integral part of the aluminum casting.



### Seat and Back Cushions

- Seat and back pans are made of formed 16 gauge (1.6mm) steel, formed to provide structural support. A high resiliency urethane foam is molded over them as per the following specifications.
- The outer seat back pan is made of 16 gauge (1.6mm) steel and is powder coated. All seat assembly uses ¼-20 fasteners.
- The urethane is reactively formed with an environmentally friendly water technology with an I.L.D. rating of 27/34 lbs and a density of 3.5 lbs/cu.ft. It exhibits the following ratings:
 

– 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



### Upholstery

- The slip covers for the seat and back upholstery are sewn using double French stitching for extra strength. The closures use a zipper and automotive Velcro on the non-visible sides. Slipcovers are removable for easy re-upholstery on site by trained maintenance personnel.

### Arms

- Optional arms are cast as part of the main aluminum support when specified. A specially molded self-skinning urethane top pad is assembled with mechanical fasteners from below.

### Assembly

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

### Finish

- Aluminum components are available in bright or satin finish. All other metal parts are in “Cloud Silver” epoxy powder coating. End and intermediate tables are available in granite, solid surface or plastic laminate.



### Tables

- The standard tables are made from 3/4” (20 mm) MDF with plastic laminate or 1/2” (12 mm) solid surface. Laminate tables are fitted with threaded mounting inserts and provided with colour matched vinyl edging. Solid surface tables are bonded to a ½” 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. Add on end tables are 9” (230 mm) wide and mount on short beam extensions in place of an end cap.
- Adjacent seating units can be joined using connecting, corner or angled tables. These tables are supported by strong frames made from 5/8” (16 mm) steel bar and 11 Ga (3 mm) steel sheet.



### Benches

- Flyaway Benches are available in 2, 3, 4 and 5-seat lengths. The design is based on the standard Flyaway Beam, Legs and Glides. The Flyaway Bench Seats rest on stainless steel front and back rails which in turn mount on the main beam through welded steel supports.
- When field replaceable upholstered pads are used, the seat pans are made from powder coated steel (14 gauge). Alternatively, the seat pans are made from perforated stainless steel (14 gauge).
- Optional bench dividers are available to provide a raised barrier between adjacent seats (stainless steel).



### Cup Holder

- An optional Flyaway cup holder is available. It can be installed on or retrofitted to any seat support equipped with an arm. It mounts between the arm casting and the arm pad using the arm pad screws. The cup holder is made from polished stainless steel with a stainless steel wire basket to allow easy drainage of any spilt beverage

– Cup Opening	2.92" (74 mm)
– Basket Depth	2.4" (61 mm)
– Outside Diameter	4" (100 mm)
– Total Length	14.37" (365 mm)
– Projection Past Arm	3 1/2" (89 mm)



### Footrest

- An optional footrest is available. It can be installed on or retrofitted onto any linear Flyaway configuration. The underpinning structure of the footrest is constructed out of a molded foam cushion on top of 11 GA powder coated steel. The upholstery is secured to the structure by hidden Velcro® tabs. The footrest is attached to the seat by a 0.25in thick powder coated laser cut steel substructure. The substructure is mounted to the underside of the seat straps and is supported with a single cast aluminum leg with a leveling glide.
- The width of the footrest is 21.15in (527mm) at a height of 15.86in (403mm). When the footrest is installed, there should be a 1in (25.4mm) spillage gap between the seat and footrest. As a result, this will add an additional 21.25in (539.5mm) to the overall depth of the seat.

### Specifications for Aluminum

Castings are cast with an aluminum alloy exhibiting the following minimum properties and of such a finish quality as to allow polishing:

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**

Depth of single units	29 1/2" (745 mm)
Depth of back-to-back units	61 1/2" (1560 mm)
Height of units	36 1/2" (930 mm)
Height of seat	17 1/4" (440 mm)
Width of two seat units	48 1/2" (1232 mm)
Width of three seat units	71" (1803 mm)
Width of four seat units	93" (2362 mm)
Width of five seat units	116 1/2" (2960 mm)