

# MILA

*auditorium seating*



## TECHNICAL SPECIFICATIONS

### PRODUCT DESCRIPTION

The MILA seating stands out for its upscale and refined look with a wide range of finishes and options. Also, it provides your auditorium with a set of aesthetic characteristics like elegance, modernity, comfortability, and integrity.

### PRODUCT BENEFITS

- Replaceable back and seat covers, no staples or glue needed.
- Assembly does not require specialized labor or tools.
- A wide range of upholstery options are available according to customer request.
- The shared centers provide a better use of space.
- Complete range of sizes: Widths from 19" to 23" (482 to 584 mm) / Height: 35" (890mm).
- Lineal or sloped installations are available for wood and concrete floors.
- Can add 15%-20% more patrons in same space, as quiet gravity lift seats fold up to a smaller envelope, enabling more rows.
- Metal exposed components are electrostatic powder-coat painted in black, which provides them high durability and resistance against hits, scratches, humidity, chemical components, etc.

### GENERAL CONDITIONS

#### Compliance

MILA seating is designed and manufactured in compliance with the following performance criteria:

- BACK DURABILITY TEST - STATIC: There shall be no sudden and major change in the structural integrity of the product after applying a load of up to 308lb for one minute.
- SEATING DURABILITY TEST - STATIC: There shall be no sudden and major change in the structural integrity of the product after applying a load of up to 617lb load for one minute.
- SEATING DURABILITY TEST – CYCLIC: There shall be no loss of serviceability to the chair after applying an impact test of 100.000 cycles with a 224lb bag weight.
- ARM STRENGTH TEST – VERTICAL – STATIC: There shall be no loss of serviceability after applying a load of up to 308lb for one minute.

#### Scope

The seats will be installed on the floor by a set of vertical support assemblies (with shared centers). The fixed backrest adapts to three positions: 13°, 17° and 20°. The seat cushion works with a counterbalanced system to ensure an automatic return to a vertical position when the seat is unoccupied.

#### Sizes

The seats will be adapted to five widths of 19", 20", 21", 22" and 23" (482, 508, 533, 558 and 584 mm) between centers. The sightlines will be located as indicated in the plans. This seat model is available in one height of 35" (890mm).

## TECHNICAL SPECIFICATIONS

### MATERIALS

#### Back cushion assembly

High grade steel, one piece seat frame (18 gauge and 3/4" / 19mm diameter) for structural integrity. Cold molded polyurethane foam increasing from 3" to 4.5" (76 a 114mm) of thickness. Foam density ranges between 2.8 and 3.1 lb/ft<sup>3</sup>. The upholstery fabric will be bonded to foam and structure through non-automated upholstery methods. The back assembly is mounted to the uprights by 11-gauge cold-rolled steel plates. 19", 20" (482 and 508mm) backs include foam and structures dimensionally different than 21" - 23" (533-584mm) ones. Back covers could be fully upholstered, laminated or thermolaminated:

*Thermolaminated cover:* A core made of a medium-density fibreboard f 9/16" (15mm), constructed with a durable and decorative surface (PVC foil: Thickness: + 0.5 - 0.3mm) on the face and edges.

*Laminated cover:* Constructed by one plywood layer of 9/16" (15mm), covered with High-Pressure Laminate and plastic edges.

#### Seat cushion assembly

Cold-rolled sheet steel (14 gauge). Cold molded polyurethane foam increasing 4.7" (120mm) of thickness. Foam density ranges between 3.1 and 3.4 lb/ft<sup>3</sup>. The upholstery material is pre-bonded with a 1/8" (3mm) thick laminated foam and attached to the molding and to the frame using non-automated upholstery methods. Seat covers could be fully upholstered, laminated or thermolaminated:

*Thermolaminated cover:* A core made of a medium-density fibreboard f 9/16" (15mm), constructed with a durable and decorative surface (PVC foil: Thickness: + 0.5 - 0.3mm) on the face and edges.

*Laminated cover:* Constructed by one plywood layer of 9/16" (15mm), covered with High-Pressure Laminate and plastic edges.

#### Flammability rating

MILA seat is manufactured to meet California TB 117-2013 flammability testing requirements in its foam, fabrics, and vinyl. Some of our fabric and vinyl options meet Crib 5 testing.

#### Gravity lift mechanism

Seat pivot is an integral part of the seat assembly, it works by a counterbalanced mechanism that is maintenance-free and noiseless. Pivot includes an axle of 1/2" (12mm) diameter AISI 1020 steel, with a stamped 8-gauge steel sheet internal pivot stop. Seat pivots bushings are made in Nylon 6.6, and are attached to the uprights by steel screws.

#### Uprights

Floor mounted uprights are constructed of a 16 gauge steel 1" x 2" (25 x 50mm) rectangular, welded to an anchoring floor plate made out of a stamped 11 gauge HR steel sheet by a robotic MIG welding, 4 hole foot for obstruction flexibility during installations. Black powder-coat painted finish.

## TECHNICAL SPECIFICATIONS

### MATERIALS

#### Armcaps

Arm caps are mounted on 11-gauge steel support, welded to the upright.

*Plastic (Fixed):* Injected polypropylene, attached to the arm cap support with bristol screws.

*With cupholder:* Injected polypropylene, 1 3/4" (45mm) width x 1 1/2" (38mm) long, with an integrated cupholder. Sized to accept standard cup sizes and cans.

*Thermolaminated:* Machined in medium-density fibreboard (MDF) constructed with a durable and decorative surface (PVC foil: Thickness: + 0.5 - 0.3 mm) on the face and edges. Attached to the arm cap support with bristol screws.

*Wood:* Machined in pinewood and polyurethane painted, attached to the arm cap support with self-tapping screws.

#### Aisle light (optional)

12V AC/DC Guide lighting fixture uses high brightness LEDs to provide glare-free, nonintrusive illumination of aisles and steps. LED colors: Yellow, White, and Warm White are standard, Red and Blue available. Optional row indicator with an improved wider view window (150% larger than original) with edge-lit illumination and etched alphanumeric display.

LED Aisle light	
Light size	2.25" diameter
Voltage	12 V AC or DC
LEDs per fixture	9
Power per aisle	0.72W (1.3W with optional Row Indicator)
LED Color temperature	2500°k to 3100°k for warm white and 5000° to 6000°K for white
Operating fixture life	Yellow LED – 100,000-hour. White, Warm White LED – 50,000-hour
Lumens per fixture	29.56
Wire	Integrated wireway and end cap system available. 8" length

\*Transformers are provided.

#### Decorative end panels

Constructed in 5/8" (15mm) and 3/8" (9mm) plywood, fully upholstered, laminated or thermolaminated.

## TECHNICAL SPECIFICATIONS

### AVAILABLE CONFIGURATIONS

#### Seat numbers (optional)

Optional white seat numbers are stamped on black polypropylene pieces of 5/8" x 1 3/4" (15 x 45mm) and are joined to the seat structure by self-tapping screws.

#### Row markers for end panels (optional)

Row markers are stamped on PMMA pieces 2.3" (60mm) diameter are available for assembly into end panels by self-tapping screws.

#### Designated Aisle Seat - ADA arm

Arm cap support has a mechanism that makes it able to flip up and provides easy access for limited mobility occupants.

Height 35"	Height 38"	Height 40"	Width 19" a 23"	Width 21" a 23"	Upright in T shape	Upright in Z shape	Writing surface*	HPL-metal end panel	Fabric-Metal end panel	Upholstered end panel	Laminated end panel	Wooden end panel	Thermolaminated end panel	Wooden armcap	Laminated armcap	plastic armcap	Cupholder	Thermolaminated armcap	ADA armcap	Upholstered covers	Plastic / acoustic covers	Wooden covers	Laminated Covers	Thermolaminated covers
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\*Ask for an independent technical sheet specs.

### FLOOR REQUIREMENTS

#### Concrete floor:

- Concrete with a strength of at least 3,000 PSI.
- A minimum thickness of 4" (100mm).
- Each chair must be installed on the floor with two (2) expansion anchor bolts delivered and specified by INORCA SAS.
- Must be installed diagonally on the fixing floor plate of each standard.

#### Wood floor:

- The floor must be hardwood.
- A minimum thickness of 1" (25mm).
- Each chair must be installed on the floor with four (4) self-tapping screws supplied and specified by INORCA SAS, one in each hole of the fixing plate.

## FINISH GUIDES



## DIMENSIONS (INCHES AND MILLIMETERS)

