

Camatic Seating

# ALPHA SEATING

SYSTEM SPECIFICATIONS

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**CAMATIC**  
S E A T I N G

# ALPHA SEATING SPECIFICATIONS

## 1. THE SYSTEM:

- Floor (tread) or riser mounted available.
- Suitable for infinite centre positions from minimum of 475mm
- Available with or without arms, cups and end of row IDs.
- Seat and back pads can be supplied upholstered
- Approximate weight of seat 7.4kg

### RAIL MOUNT SYSTEM

- Alpha rail mount system for adjustable seating centres
- available in riser or tread mount version
- Chairs can be removed for standing room only, due to low profile beam.
- Suitable for seat centre positions from minimum of 475mm to 600mm

## 2. CONFIGURATION / DIMENSIONS

### Seat Dimensions:

Seat dimensions meet the following minimum requirements and conform to any local statutory regulations.

Seat Centres - without arm	475mm	[183/4"] (Minimum)
Seat Centres - with arm	480mm	[19 "] (Minimum)
Seat pad Width	400mm	[153/4"] (Nominal)
Seat Width	425mm	[163/4"] (Nominal)
Back Width	465mm	[18.25"] (Nominal)
Overall envelope (seat up, no arm)	300mm	[11 ¾"] (Nominal)
Overall envelope (seat up, with arm)	340mm	[13.5"] (Nominal)
Overall envelope (seat down)	560mm	[22"] (Nominal)
Back Height (above floor)	820mm	[32.25"] (Nominal)
Seat Height	450mm	[17.5"] (Nominal)

### 3. MATERIALS

#### Plastic Components:

##### **Plastic seat and back components:**

Seat and Back components are injection moulded co-polymer polypropylene. Plastic formulation is fully compounded with ultra-violet inhibitors prior to the manufacturing process. UV inhibitors are added at a rate to ensure no significant colour or plastic deterioration. Minimum wall section thickness is 3.5mm [0.14"].

##### **Hinge Mechanism:**

The Hinge / pivot mechanism is injection moulded glass reinforced polyamide black in colour and contains ultra violet inhibitors.

Hinge / pivot mechanism returns the seat to a 3/4 position automatically through a spring tilt system, requiring no adjustment or lubrication for the life of the installation. Hinge mechanisms perform to the requirements of ASTM F851-83 & remain operational after 100,000 cycles.

##### **Standards / Side Supports:**

Common standards / supports to suit low & high riser applications are steel rectangular hollow section 25x38x1.6mm thick & galvanised or powder coated as option for indoor applications. The standards are fastened into the base of the chair to provide a quick & easy installation. Tread mounting is achieved with fabricated steel supports, hot dip galvanised.

##### **Backrest Component:**

The backrest has a minimum height of 450mm [17 ¾"] above the seat component, and extends below the seating surface to provide foot protection. The front face (sitting surface) is free of fasteners and textured to minimise slipping. The front cover is capable of accepting an upholstery pad, typically factory fitted or may be retro-fitted at a later date.

*It is recommended that the customer choose an Eco Preferred Fabric in order for the chair to obtain a high Green Star rating.*

Rear face is free of dirt or water traps, smooth, with minimal texture.

##### **Seat Component:**

The seat depth as measured from the 's' point of the backrest is a minimum of 430mm [17"]. Seat upper face (sitting surface) is free of fasteners and textured to minimise slipping.

The upper face is capable of accepting an upholstery pad typically factory fitted or may be retro-fitted at a later date.

*It is recommended that the customer choose an Eco Preferred Fabric in order for the chair to obtain a high Green Star rating.*

Lower face is free of dirt traps, smooth and with minimal texture. The leading edge of the seat includes an angled recessed location for the seat number.

### 4. FIXINGS

#### Concrete Riser Mounting:

Anchors are to be installed to the Camatic specification, and meet the seat design loads. Standard anchors for the respective riser mount configuration as follows:

Steel Uprights – Ramset "Anascrew" anchors or equivalent, mechanically galvanised.

Alternatively - chemically set studs, minimum 65mm embedment, with mechanically galvanised nut and washer.

### **Concrete Tread Mounting:**

Anchors are to be installed to the Camatic specification, and meet the seat design loads. Standard fixings Hilti mechanical HKD fasteners.

### **Removable Mounting Brackets:**

Mounting brackets can be supplied to convert fixed stadium chair design to removable units. The seat is to be fixed with flush mount anchors & hand-wheels, that require no tools to remove and remain attached to bracket when not in use.

### **Shift Plates:**

Shift plates are available to relocate fixing points for the standards away from expansion joints. Alternate shift plates must to be approved by seat manufacturer.

## **5. CHAIR ACCESSORIES – (where chosen and installed)**

### **Arm Rests:**

Injection moulded glass reinforced polyamide armrests attach via a cartridge to the chair at the point provided in the side of the back moulding. The arm position is adjustable, to centre the arm between chairs from 500mm to 570mm [19 3/4" to 22.5"]. Armrests are closed hollow section and free of external ribbing, with smooth top and front surfaces to prevent entanglement in clothing. The Polyamide is black in color and contains ultra violet inhibitors.

If arms are not selected, the side cavities are concealed with body colored, vandal proof, snap in covers.

All seating units are capable of accepting armrests on delivery or at a later date

### **Cup-holders:**

Rear-mount Cup-holders are designed specifically for attachment to the chair, by utilising the purpose designed bosses on the inside rear of the backrest. The cup-holder is injection moulded co-polymer polypropylene compounded with ultra-violet inhibitors prior to the manufacturing process. Colour to match that of the seat and backrest. The universal cup-holder may be fitted either left hand or right hand. The location is normally factory selected by pre-fitting a small mounting bracket, so site installation is quick & easy with a vandal proof snap in retention.

### **Seat Pad:**

Seat pad is fixed at six (6) positions to provide a vandal proof retention. The pad is constructed of injection moulded polypropylene inner (typical wall thickness 3.5mm) with a 16mm moulded polyurethane foam cushion. Cover is upholstered to the approved customer selection of fabric for indoor applications & marine grade vinyl for out door applications.

### **Backrest Pad:**

Back pad is fixed at six (6) positions to provide a vandal proof retention. The pad is constructed of injection moulded polypropylene inner (typical wall thickness 3.5mm) with a 10mm [3/8"] polyurethane foam covering. Cover is upholstered to the approved customer selection of fabric for indoor applications & marine grade vinyl for out door applications.

### **Seat Numbers:**

Seat numbers snap into the front edge of seat and angle upward. The seat number plate is black injection moulded polypropylene with white numbering and provides for up to three (3) digits of nominal 12mm [1/2"] in height.

### Row Identification:

Row identification is a two piece construction. A black injection moulded polypropylene housing holds a recessed vandal proof aluminium Row identification disc. Excellent visibility and contrast is supplied via black numbering on a silver disc (or silver numbering on a black background on request) and provides for up to two (2) digits of nominal 28mm [1.1 "] in height.

## 6. PERFORMANCE / STANDARDS / REFERENCES

### General:

The completed chair installation will provide the following minimum performance requirements.

Anchor Bolts:	All concrete fixings are non-corrosive material.
Fasteners:	All fasteners are non corrosive.
Metal Finishes:	All finishes are suitable for outdoor exposure / marine environments.
Plastic Components:	Exterior grade plastics, UV Stable for outdoor applications.
Seat Pivot:	Seat will rise without assistance. There are no springs within the gravity system.
FIFA	The chair complies with the FIFA recommendations for stadium seating.

### Manufacture:

The following manufacturing standards are adhered to:

Available on request

### Durability Testing:

This range of stadium seating complies with the following:

Available on request

### Plastic Ultra Violet Deterioration:

The seat and backrest exceed the following test requirements:

Available on request

### Flammability:

The stadium chairs and / or material used in its manufacture are comply to the following:

Available on request

### Management Systems:

Camatic Seating is accredited through DLCS for the following:

ISO 9001:2008                      Quality Management Systems

## 7. INSTALLATION

### General:

Install stadium chairs in locations indicated and fasten securely to substrates according to manufacturer's recommendations and approved submittals. All chairs to be riser mounted where riser exceeds 175mm [7"].

### Layout and Setting Fixings:

The Layout of chairs and setting of anchor bolts must be completed in such a way to achieve the following:

Available on request

### Testing:

Available on request

### Installation of Seats:

On site installation should occur in the following sequence:

Available on request

### Cleaning

General: Removal of bags and final clean by others.

## 8. WARRANTY

### General:

The warranty shall be in addition to and not a limitation of the other rights the Owner may have against the Contractor, installer, or Manufacturer, under the Contract Documents.

Camatic provides a warranty for the replacement of stadium chairs found to be defective in appearance or unusable due to defects in performance, as outlined below:

Available on request