

OPERATOR SEAT

4000 SERIES



mason grogan
INDUSTRIAL

SPECIALIST MATERIALS FOR DESIGN ENGINEERS



BAULTAR
SEATING SOLUTIONS

HEAVY-DUTY OPERATOR SEATS
DESIGNED FOR THE FREIGHT AND TRANSIT INDUSTRY
IDEAL FOR LOCOMOTIVE CABS

OPERATOR SEAT

TECHNICAL SPECIFICATIONS

4000 SERIES

STANDARD FEATURES

CUSHION UPHOLSTERY	Black 100% polyester fiber, water and stain-repellent treated	
CUSHION FOAM	Polyurethane multi-density Foam without urethane available	
ARMREST CUSHION TOP PADDING	Black 100% PVC fiber with 100% polyester backing	
ARMREST CONTOUR UPHOLSTERY	Black 100% nylon fiber	
PROTECTIVE SHELLS ON BACKREST	ABS nominal thickness 0.125" [3 mm]	
STRUCTURE	0.1" [2.5 mm] wall thickness; tubular steel construction ASTM-A500 Grade B	
STRUCTURAL BOLTS	Grade 8 (SAE J429)	
PAINT	Polyester black powder-baked for major components; zinc-plated or Ecoat™ for others.	
RAISING AND BACKREST MECHANISM	Gas spring cylinder	
WEIGHT		
(Weights are approximate. Actual weight may vary based on specific options selected)	Pedestal-mounted	143 lb [65 kg]
	Wall-mounted	170 lb [77 kg]
	Footrest	33 lb [15 kg]

ERGONOMICS AND MODULARITY

Available configurations	Pedestal-mounted or wall-mounted; refer to selection guide for all configurations	
General dimensions and adjustments - Inches [mm] All dimensions for reference purposes only		
Seat backrest		
	Cushion thickness	2 19/32 [66]
	Height	24 [610]
	Width	18 1/2 [470]
	Tilt ¹	90° to 120°
Seat pan		
	Cushion thickness	4 [102]
	Cushion width	20 1/2 [521]
	Depth	Fixed or 16 1/2 to 20 1/2 [420 to 521]
	Tilt	Fixed or 1° to 10°
Armrest ²		
	Cushion thickness	2 [51]
	Cushion width	3 [76]
	Height to seat pan ¹	Fixed or 8 1/2 to 13 1/2 [216 to 343]
	Length to backrest	Min. 8 5/16 [211] (Backrest tilt @ 90°) Max. 9 3/4 [248] (Backrest tilt @ 120°)
	Lateral spacing	20 [506]
	Fold-up ³	0° to 110°
Rotation ^{1,3}	Free, fixed, or blocked; each 90°	
Seat SRP height ¹		
	Pedestal-mounted	16 to 20 [406 to 508]
	Wall-mounted	16 3/4 to 20 3/4 [425 to 527]
Tripod fore-aft travel ² (Wall-mounted configuration)	37 1/2, 20 1/2, or 15 1/2 [952, 521, or 394] by increments of 1 1/2 [38]	
Seat fore-aft travel ²	6 1/4 or 8 [159 or 203]	
Footrest ²	Height ¹	Fixed or adjustable
	Rotation	3 positions; each 90°
Headrest	Fixed or adjustable	

DURABILITY

CUSHION	
APTA SS-C&S-011-99 section 9.1	200,000 jounce cycles No loss of height No wear or signs of failure

SERVICE LIFE CYCLE⁴

APTA SS-C&S-011-99 section 9.2	Cycles	Load
Recline mechanism	15,000	none
Armrest folding	20,000	none
Vertical adjustment	20,000	150 lb [667N]
Fore-aft	20,000	150 lb [667N]
Rotation	20,000	none

PROTECTION AGAINST CORROSION

ASTM D1654 class 6 min.	1,500 hours for all polyester black powder-baked painted parts 2,000 hours for Ecoat™ parts
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SAFETY

FIRE (UPHOLSTERY)	FMVSS 302
FIRE (foam)	FMVSS 302 California TB 117
SMOKE (upholstery)⁴ (Seat and backrest only) ASTM E662 and 49 CFR Part 238 App. B for criteria	Ds (4.0) ≤ 200
OPTIONAL	Low toxic gaz generation for upholstery, foam and shell (BSS 7239 or SMP 800C) Material to meet FRA 49 CFR 238, App. B

STATIC LOAD^{4,5}

APTA SS-C&S-011-99 Section 6.2 All static loads for testing purposes only, not for service use	Criteria (all with permanent deformation ≤ 1/8")
Bottom load	450 lb [2,000N]
Backrest load	3,300 lb.in. [373Nm]
Armrest vertical	250 lb [1,112N]
Armrest horizontal	250 lb [1,112N]
Anti-rotation	1,600 lb.in. [181Nm]

DYNAMIC LOAD^{4,5}

APTA SS-C&S-011-99 Section 6.3 All static loads for testing purposes only, not for service use	Criteria (all with 95 th percentile male dummy on the seat)
Longitudinal	+/- 8G
Lateral	+/- 4G
Vertical	+/- 4G

NORMAL SERVICE USE RECOMMENDATIONS⁶

Maximum load	450 lb
Seat replacement	Seat should be replaced after 12 years
Maintenance	Seat must be maintained according to Baultar instruction sheet IT19-0070

CLEANING

STRUCTURE	Mild soap and water
UPHOLSTERY (Cleaning code WS)	For water-based stains, use mild detergent foam or upholstery shampoo For oil-based stains, spot clean with a dry cleaning solvent, being sure to test area first

BAULTAR CERTIFICATIONS

Welding	CSA 47.1
Quality management	ISO 9001-2008

¹ Infinitely adjustable

² Optional

³ Armrest folds up independently of backrest tilt

⁴ Test by certified laboratories

⁵ Tested on pedestal-mounted seat only

⁶ See IT19-0070 for definition of normal use

FOR MORE INFORMATION PLEASE CONTACT

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